

[No. 85]

JOURNAL
of the
Straits Branch
of the
Royal Asiatic Society

March 1922.

SINGAPORE :
PRINTED AT THE METHODIST PUBLISHING HOUSE,
1922.

THE STRAITS BRANCH OF THE ROYAL ASIATIC SOCIETY.

Patron.

H. E. SIR LAURENCE GUILLEMARD, K.C.B., Governor of the
Straits Settlements and High Commissioner for the Malay States.

Council for 1922.

THE HON. MR. W. G. MAXWELL, C.M.G. - - - - -	<i>President.</i>
THE HON. SIR J. W. MURISON AND MR. H. ROBINSON. - - -	<i>Vice-Presidents for the S.S.</i>
MR. H. C. ROBINSON AND MR. J. B. SCRIVENOR. - - - -	<i>Vice-Presidents for the F. M.S.</i>
MR. J. L. HUMPHREYS AND MR. A. W. HAMILTON. - - - -	<i>Vice-Presidents for the Un- federated States.</i>
MR. C. BAZELL. - - - -	<i>Hon. Treasurer.</i>
MAJOR J. C. MOULTON, O.B.E. -	<i>Hon. Secretary.</i>
MR. J. JOHNSTON. - - -	<i>Hon. Librarian.</i>
MR. I. H. BURKILL, MR. A. G. BRAT- TON, MR. C. L. COLLENETTE AND MR. B. NUNN. - - -	<i>Council.</i>

PROCEEDINGS

OF THE

Annual General Meeting.

The Annual General Meeting was held at the Society's rooms 5 p.m. on Friday, 10th February 1922.

PRESENT: Dr. R. O. Winstedt (Vice-President for Singapore) in the chair and 26 other members.

1. The Minutes of the Annual General Meeting of 11th February 1921 were confirmed.

2. The Minutes of the General Meeting held 1st July 1921 were read and confirmed.

3. The Annual Report and Statement of Payments and Receipts were adopted on the motion of Mr. H. C. Robinson, seconded by Mr. C. L. Collenette.

4. The Chairman proposed for confirmation, and Mr. Burkill seconded, that Rule 1 be rescinded and the following substituted:—

“The name of the Society shall be ‘The Malayan Branch, Royal Asiatic Society’.”

This was confirmed unanimously; the change in name to take effect from 1st January 1923.

5. The Chairman proposed for confirmation, and Major Moulton seconded, that Rule 8 be amended as to the first four lines by the substitution of the following words:—

“The Officers of the Society shall be:—

“A President,

“Vice-Presidents not exceeding six, ordinarily two each from (i) the Straits Settlements, (ii) the F. M. S., and (iii) the Unfederated or other Protected States, although this allocation shall in no way be binding on the electors.”

The Resolution was confirmed with one dissentient.

6. H. H. the Sultan of Johore K.C.M.G., K.B.E. was elected an Honorary Member.

7. The election of Officers and Members of the Council for the current year resulted as follows:—

<i>President</i>	- - - -	The Hon. Mr. W. G. Maxwell, C.M.G.
<i>Vice-Presidents for the S.S.</i>	-	The Hon. Sir J. W. Murison and Mr. H. Robinson.
<i>Vice-Presidents for the F.M.S.</i>		Mr. H. C. Robinson and Mr. J. B. Scrivenor.
<i>Vice-Presidents for the U.M.S.</i>		Mr. J. L. Humphreys and Mr. A. W. Hamilton.
<i>Hon. Treasurer</i>	- - -	Mr. C. Bazell.
<i>Hon. Secretary</i>	- - -	Major J. C. Moulton, O.B.E.
<i>Hon. Librarian</i>	- - -	Mr. J. Johnston.
<i>Council</i>	- - - -	Mr. I. H. Burkill, Mr. A. G. Brat- ton, Mr. C. L. Collenette and Mr. B. Nunn.

8. Votes of thanks to Mr. See Tiong Wah for auditing the Society's accounts, to Dr. Lim Boon Keng, O.B.E. for his services on the Council, and to the retiring Council, were passed.

9. The Chairman then gave an interesting lecture on the Antiquities of Malaya, after which Mr. Robinson proposed, and Mr. Amery seconded, a hearty vote of thanks to the lecturer, at the same time expressing a hope that the paper would be printed in the Society's Journal.

Annual Dinner.

By kind permission of the Committee of the Singapore Club a dinner was held at that Club on Friday 10th February 1922 at 8.15 p.m.

H. E. the Governor, as Patron of the Society, accompanied by Mr. R. B. Osborne, Private Secretary, and Mr. Foulger A.D.C. was present as the guest of the evening. Sir J. W. Murison, the retiring President, took the chair. Covers were laid for 35. Besides those mentioned, the following Members were present:—Messrs. C. L. Collenette, H. C. Robinson, W. J. Cullen, Seah Liang Seah, Seah Eng Tong, J. O'May, A. F. Richards, I. H. Burkill, A. Cavendish, W. Lowther Kemp, Drs. A. L. Hoops, F. W. Foxworthy and R. O. Winstedt, Messrs. H. Robinson, E. T. Williams, B. Nunn, C. E. Wurtzburg, J. I. Miller, D. Santry, C. Bazell, W. P. Plummer, J. R. Lynch, A. J. Amery, F. G. Bourne, L. J. Hayes, H. D. Mundell, A. G. Bratton, J. C. Moulton and three guests.

After the usual loyal toast the Chairman proposed the health of H. E. the Governor, who responded in a happy speech emphasizing the importance of the occasion due to the change in the Society's name inaugurated that very day. H. E. referred in eulogistic terms to the valuable work done for the Society by the two Vice-Presidents Dr. Winstedt and Mr. Robinson. In conclusion he gave a two-fold toast: "to the *Straits* Branch, Royal Asiatic Society, *Vale*; to the *Malayan* Branch, Royal Asiatic Society, *Ave*," and to the latter he added "*Floreat, florebit.*"

Dr. Winstedt and Mr. Robinson replied on behalf of the Society.

The Company then adjourned to the billiard and card rooms where the remainder of the evening passed pleasantly.

Annual Report

of the

Straits Branch, Royal Asiatic Society,

for 1921.

Membership. The membership of the Society at the close of the year stands at 463, as compared with a total of 329 at the end of 1920. There are 14 Honorary Members, 4 Corresponding Members and 445 Ordinary Members.

During the year 153 new members were elected by the Council. This is more than double the highest number of new members ever added in any one year (viz. 73 in 1910), and nearly treble the number who joined during 1920. The Council regard this sign of wider interest in the Society as highly satisfactory and reflecting great credit on several energetic members who have been so successful in interesting many in the work of the Society. In addition to many new Members from the Straits Settlements and the F. M. S., several resident in British North Borneo, Sarawak and the Unfederated States (particularly Kedah) joined the Society.

The names of the new members elected during the year are:—

HONORARY MEMBERS.

Prof. Dr. Renward Brandstetter	Prof. Dr. Snouck-Hurgronje
The Sultan of Perak, K.C.M.G.	Dr. Ph. Van Ronkel

ORDINARY MEMBERS.

Dr. R. Allen, B.Sc.	Mr. A. G. Bratton
Mr. W. H. R. Allen	Mr. T. W. Browne
Capt. E. V. Andreini	Mr. H. M. Butterfield
Mr. K. W. H. Austen	Mr. F. M. Campbell
Enku Abdul Aziz	Mr. A. Cavendish
Mr. H. Ball	Mr. F. N. Chasen
Mr. S. H. Ball	Mr. E. Cheers
Mr. J. R. Barnes	Mr. H. T. Clark
Mr. G. E. Baughan	Mr. G. E. Clayton
Mr. H. Beard	Mrs. J. J. Connell
Mr. W. N. C. Belgrave	Mr. A. C. Cooney
Mr. W. C. B. Bell	Mr. N. Coulson
Major E. V. Benjamin, M.C.	Mr. J. C. Cowap
Major K. Black	Miss Craddell
Rev. R. Blasdell	Mr. Gordon Cranna
Mr. R. Boyd	Mr. H. B. Crocker

Mr. C. D. Adams	Mr. N. L. Lindon
Mr. L. A. Allen	Capt. C. L. Lowe
Mr. W. G. Cullen	Mr. J. R. Lynch
Mr. A. W. Davidson	Mr. I. C. Macmillan
Mr. S. E. Dennys	Mr. E. E. Madge
Mr. G. B. Deshmukh	Mr. A. H. Malet
Mr. P. L. Dickson	Mr. H. L. Manchester
Mr. F. W. Douglas	Mr. N. F. H. Mather
Mr. A. M. Dryburgh	Mr. C. N. Maxwell
Capt. B. J. Eaton, O.B.E.	Mr. D. McLeod
Mr. S. J. Edwards	Mr. J. I. Miller
Dr. E. A. Elder	Commander J. F. Mills, R.N., I.S.O.
Mr. H. A. Forrer	Mr. R. M. Moffat
Mr. R. G. Foulger	Said Mohamed bin Said Ali Idid
Hon. Mr. F. W. Fraser	Mr. S. Morgan
Mr. L. B. Gibson	Dr. J. R. Kay Mouat
Mr. W. Graham	Mr. C. R. Nagalingam
Mr. C. S. Griffiths	Mr. S. J. Nathan
Mr. W. A. C. Haines	Major J. B. Neilson, M.C.
Mr. G. L. Ham	Mr. Ong Thye Ghee
Mr. W. P. Handover	Mr. H. A. L. Orchard
Mr. J. A. H. Hardie	Mr. R. B. Osborne, M.C.
Dr. H. H. Hart, B.A.	Mr. E. Parnell
Mr. R. N. Harvey	Major H. S. Paterson
Capt. N. M. Hashim	Rev. W. Peach
Mr. G. Hawkins	Mr. J. Pedlow
Mr. L. J. Hayes	Mr. H. M. Pendlebury
Mr. M. R. Henderson	Mr. W. P. Plummer
Mr. C. Hewetson	Mr. P. N. Ponnambalam
Mr. M. R. Holgate	Mr. C. W. H. Price
Mr. W. Holleman	Major Stamford Raffles, O.B.E.
Dr. A. L. Hoops	Mr. H. C. Reis
Dr. P. S. Hunter	Mr. Marcus Rex
Mr. G. C. Irving	Major F. W. Richards, D.S.O., M.C.
Dato Ismail bin Bachok, D.P.M.I.	Mr. E. A. Ross
Mr. F. B. Ivens	Mr. J. A. V. Ruston
Mr. F. E. Ivery	Major E. O. Rutter
Dr. F. V. Jacques	Inche Mohamed Salleh bin Ali, S.M.J.
Inche On bin Jaffar	Major W. R. Sanguinetti, O.B.E., M.C.
Ahmad Jalaludin	Mr. V. Sauchelli
Mr. L. A. Jermyn	Dr. R. Schider
Mr. M. M. Joy	Mr. Duncombe Sear
Tengku Kassim bin Sultan	Mohamed Sheriff bin Osman
Abdul Hamid Halinshah	Mr. P. Simpson
Mr. J. Kellie	Mr. H. S. Sircom
Mr. G. M. Kidd	Mr. W. F. de V. Skrine
Mr. C. S. Kinder	Mr. W. Smart
Mr. T. Kitching	
Mr. E. R. Koek	
Rev. J. Romanis Lee	
Mr. L. G. Lee	

Capt. S. R. Smith, O.B.E.	Mr. H. P. Trewin
Dr. G. T. Foster Smith	Lt. Col. J. H. Tyte
Mr. F. W. South	Mr. W. D. Visser
Mr. W. E. Speers	Mr. F. W. Wade
Mr. G. Beresford Stooke	Mr. B. S. Walton
Mr. de la M. Stowell	Major G. R. H. Webb, O.B.E.
Mr. W. H. Stubington	Mr. E. S. Willbourne
Mr. H. Sutcliffe	Mr. E. T. Williams
Mr. E. R. Taylor	Mr. R. M. Williams
Mr. A. K. à Beckett Terrell	Dr. W. B. Wilson, M.C.
Mr. L. A. Thomas	Mr. C. E. Wurtzburg, M.C.

The Rev. Dr. W. Shellabear was elected an Honorary Member of the Society. He joined the Society in 1894, served for several years on the Council and was President from 1914-15.

The death of the Rev. R. G. Lawes, an Honorary Member since 1883 was reported during the year.

Among Ordinary Members the Society lost 15 by resignation during the year, of whom 6 were removed under Rule 6.

Council. Mr. C. Boden Kloss, Vice-President for the F. M. S. went on leave in June; the Hon. Mr. W. G. Maxwell, C.M.G. was co-opted in his place. The Hon. Dr. Lim Boon Keng, O.B.E. and Mr. J. E. Nathan left the country during the latter half of the year; Messrs. B. Nunn and A. G. Bratton were co-opted to fill their places on the Council.

General Meetings. The Annual General Meeting was held on the 11th February followed by a dinner at the Singapore Club attended by 30 Members and their friends. It is hoped to make this a regular feature of the Annual meeting.

The General Meeting held on the 1st July, was noteworthy for two reasons:

In the first place it marked a first attempt to revive the holding of meetings for the purpose of reading and discussing papers. These meetings were held frequently in the early days of the Society: thus 9 general meetings were held and 22 papers read during the first year of the Society (1878), followed by 6 meetings and 8 papers in 1879. But in 1881 only one general meeting was held: the difficulty of forming a quorum proved too great. No mention is made in the Annual Reports of the Society of any similar meetings having been held since, with the exception of one in June 1890. At this "revival" meeting in July, 1921, Mr. C. N. Maxwell contributed a paper on Malayan Fishes, and Mr. Collette one on the enemies of butterflies. Although the majority of the Members reside away from Singapore, it is hoped to arrange more meetings of this nature from time to time, as the experiment was evidently appreciated.

Change of Name. At the July meeting the important question of changing the Society's name was definitely put to the vote. In April a circular was sent to all members mentioning the proposal to change the name of the Society from the "*Straits Branch*" to the "*Malayan Branch* of the Royal Asiatic Society." Arguments for and against were briefly discussed; members were invited to reply by postcard stating whether they were in favour of the change or not. The result of this informal ballot was 159 members in favour and 17 against the proposed change.

At the July meeting the following proposal was carried unanimously:—

"That Rule 1 be rescinded and the following substituted:—

"The name of the Society shall be 'The Malayan Branch of the Royal Asiatic Society'."

The Resolution is subject to confirmation at the Annual General Meeting to be held in February, 1922.

Franking Privileges. The privilege of free postage for the Society's publications and correspondence addressed to places in the Straits Settlements has now been extended to the F. M. S., the four Unfederated States, and Brunei, whose Governments have kindly agreed to accept the Hon. Secretary's frank. This concession will result in a considerable reduction of our postage expenses.

Journals. Three Journals were issued for the year. No. 83 appeared in April, a general number of 173 pages. A Special number with only a limited number of copies was published in September. This is devoted to a very important Flora of Borneo by Dr. E. D. Merrill, Director of the Bureau of Science, Manila. It fills 637 pages, took 3 years to print and cost the Society \$2,870. The Council decided to issue this Journal only to such members who cared to ask for it, as it was thought that the contents being somewhat of a technical nature would not interest all members of the Society.

No. 84 was printed by the end of the year, but owing to an unfortunate delay over the illustrations, could not be issued until January, 1922. It is devoted to an article by Mr. C. N. Maxwell on Malayan Fishes, covering 102 pages, and illustrated by 72 plates. The total cost of this number is borne by the Department of Supplies for whom a special edition in an attractive cover has been printed off for sale.

Thirteen contributed papers to the Journal against twelve in 1920. The variety of subjects covered was well-maintained. Malayan folk-lore heads the list with eight papers from Dr. Winstedt. There were five Zoological papers, including three on mam-

mals, one on fishes, and one on insects, one important botanical paper by Dr. Merrill already mentioned, one Malay vocabulary, one on Malay History, and other papers on such diverse subjects as Contraband, Chinese Marriages, Malay Studies, the late Odoardo Beccari. Altogether 21 papers were published against 25 in 1920.

It was pointed out in the last Report that the burden of authorship falls on too few. In the list of Members published in April an asterisk was placed against the name of all those who had ever contributed papers to the Society's Journal. 41 Members are thus distinguished.

It is hoped that with the big influx of new Members—over 200 in the last two years—the little band of authors will be considerably extended. The Journal now in preparation for issue early in 1922 contains papers from Members who have not hitherto supported the Society in this way. But more are required. Particular attention may be drawn to the need of short articles or notes, which formed such an attractive feature of the earlier Journals. The Society's field of work is wide, covering as it does the whole of the Malay Peninsula and neighbouring Malayan countries. Their history is as yet untold, their ethnological, zoological and botanical secrets still unravelled.

Finances. The Hon. Treasurer's statement of accounts for the year 1921 shows credit balances carried forward to the total of \$1,632.96 against \$1,609.27 at the end of 1920. A large reserve had necessarily been built up during the last three years to meet the heavy cost of printing Dr. Merrill's important paper. To pay for this the Fixed Deposit of \$2,000 was withdrawn, leaving our two investments (Victory Loan \$2,500 and S. S. War Loan \$2,200) untouched.

Thanks to the large addition of new Members the subscriptions for the year showed a considerable increase over those for the previous year: \$1,490* against \$1,130 for 1920. Ten Members compounded for life membership. The total number of Life Members is now 45, to which must be added 18 Honorary and Corresponding Members who pay no Subscriptions (although many of them have done so in the past before their election to the higher form of membership). The Council decided to set aside \$2,500 (invested in Victory Loan) as a "Life Members' Reserve." Receipts from sales of Journals and Maps, amounted to \$949 against \$765 in 1920.

The cost of printing remains abnormally high and no relief in this direction appears likely as yet. With larger membership however the Council hopes to maintain an annual output of 300 pages without recommending an increase in subscriptions.

* The Hon. Treasurer's statement shows \$1,690 received during the year. This includes \$110 for arrears of subscriptions (1919 and 1920), and \$90 for subscriptions paid in advance (1922-24).

Library. 76 Institutions and Societies are now on the Society's Exchange List. From these and other sources 248 publications were received during the year.

The Council's policy of eliminating certain publications was continued. Further geological, museum and botanical journals were issued on indefinite loan respectively to the Government Geologist (Batu Gajah), the Director Raffles Museum (Singapore) and the Director of Gardens (Singapore). A considerable amount of shelf-room was saved thereby and facilitated the Hon. Librarian's work of re-arrangement.

J. C. MOULTON,

Hon. Secretary.

STRAITS BRANCH, ROYAL ASIATIC SOCIETY.

Receipts and Payments Account for the year ended 31st December, 1921.

Receipts.		Payments.	
To Cash		By Printing	
Mercantile Bank of India Ltd.		Journal No. 83	... \$1,698.00
Current Account	... \$1,609.27	Special Journal	... 2,870.50
Fixed Deposit	... 2,000.00	Map for Journal No. 85	... 78.00
Petty Cash in hand	... 5.67	Photographs	... 35.00
Subscriptions	... \$3,614.94	Circulars to members	... 42.00
Annual	... \$1,690.00	Stationery	... \$4,733.50
Life Members	... 500.00	Salaries	... 181.00
Interest	... \$2,190.00	Postage and Petties	... 288.00
Investments	... \$245.00	Library	... 218.34
Bank	... 144.23	Book-binding	... \$73.00
Sales	... \$389.23	Photograph	... 6.00
Journals	... 509.70	Books	... 21.45
Maps	... 439.20	Annual Dinner per contra	... \$100.45
Sundries	... 1.18	Cash	... 286.61
Annual Dinner per contra	... \$950.08	Mercantile Bank of India Ltd.	...
	... \$286.61	Current Account	... 1,616.63
	... \$7,430.86	Petty Cash in hand	... 16.33
			... \$1,632.96
			... \$7,430.86

The Society also holds \$2,200 in 5½% Conversion Loan.
\$2,500 in 5% Victory Loan.

SEE TIONG WAH,
Hon. Auditor.

C. BAZELL,
Hon. Treasurer.

List of Members for 1922.

(As on 1st January, 1922.)

* *Life Members.* † *Contributors to the Society's Journal.*

Year of Election. Honorary Members.

- 1890.1918. † **BLAGDEN, C. O.**, School of Oriental Studies, Finsbury Circus, London. (Hon. Secretary 1896).
1921. **BRANDSTETTER, PROF. DR. R.**, Luzern, Switzerland.
- 1894.1906. **COLLYER, W. R.**, I.S.O., Hacford Hall, Reepham, Norfolk, England. (Council 1904: Vice-President 1897-1900, 1902, 1904-1905).
- 1903.1917. † **GALLOWAY, DR. D. J.**, British Dispensary, Singapore. (Vice-President 1906-1907: President 1908-1913).
- 1895.1920. † **HANITSCH, DR. R.**, 99 Woodstock Road, Oxford, England. (Council 1897, 1907-1909: Hon. Treasurer 1898-1906, 1910-1911, 1914-1919: Hon. Secretary 1912-1913).
- A Founder † **HOSE, RT. REV. BISHOP G. F.**, Wyke Vicarage, Normandy near Guildford, England. (Vice-President 1878. 1890-1892: President 1878-1880, 1894-1907).
1921. **PERAK, H. H.** The Sultan of, K.C.M.G., The Astana Negara, Bukit Chandan, Kuala Kangsar, Perak.
1878. † **PERHAM, VEN. ARCHDEACON J.**, Chard, Somerset.
- 1890.1912. † **RIDLEY, H. N.**, C.M.G., M.A., F.R.S., 7 Cumberland Road, Kew Gardens, Surrey, England. (Council 1894-1895: Hon. Secretary 1890-1893, 1897-1911).
1916. **SARAWAK, H. H. THE RAJAH OF**, Kuching, Sarawak.
1885. **SATOW, SIR ERNEST M.**, Beaumont, Ottery St., Mary, Devon, England.
- 1894.1921. † **SHELLABEAR, REV. W. G.**, D.D., c/o Board of Foreign Missions, 150, Fifth Avenue, New York City, U. S. A. (Council 1896-1901, 1904: Vice-President 1913: President, 1914-1918).
1921. **SNOUCK-HURGRONJE, PROF. DR.**, Leiden, Holland.
1921. **VAN RONKEL, DR.** Professor of Malay, Zoeterwoudsche Singel 44, Leiden, Holland.

Corresponding Members.

1920. † **ANNANDALE, N.**, D.Sc., F.A.S.B., Indian Museum, Calcutta.
1920. † **LAIDLAW, F. F.**, M.A., F.Z.S., Hyefield, Uffculme, Devonshire, England.

1920. † MERRILL, E. D., PH.D. Director, Bureau of Science,
Manila.
1920. † MOQUETTE, J. P., Kebonsiroh 36, Weltevreden, Java.

Ordinary Members.

1903. ABBOTT, W. L., 400, South 15th Street, Philadelphia,
1918. ABDUL-MAJID BIN HAJI ZAINUDDIN, Education
Office, Taiping, Perak.
1916. ABRAHAM, H. C., Survey Dept., Kuala Lumpur.
1909. ADAM, FRANK, The Straits Trading Co., Singapore.
1907. ADAMS, SIR ARTHUR, K.B.E., Rockleigh, Swanage,
Dorset.
1921. ADAMS, C. D., Miri, Sarawak.
1910. ADAMS, H. A., Kuching, Sarawak.
1917. ADAMS, J. W., M.B.C.S., L.R.C.P., B.A., M.B., B.C.,
Medical and Health Office, Penang.
1920. ADAMS, P. M., Lawas, Sarawak.
1917. ADAMS, R. H., Topham, Jones and Railton, Ltd.,
Singapore.
1909. ADAMS, T. S., Batu Gajah, Perak.
1919. * ADELBOURG, F., Jenderata Estate, Telok Anson,
Perak.
1913. ALLEN, REV. GEORGE DEXTER, M. A., Windermere,
St. Thomas Walk, Singapore.
1914. ALLEN, H. C. W., Boustead and Co., Singapore.
1921. ALLEN, L. A., Acting Resident, Brunei.
1917. ALLEN, P. T., B.A., Chinese Protectorate, Singapore.
1921. ALLEN, DR. R., B.Sc., Sarawak Oilfields, Miri,
Sarawak.
1921. ALLEN, W. H. R., The Straits Trading Co.,
Singapore.
1914. AMERY, REV. A. J., B.D., Outram Road School,
Singapore. (Council 1921).
1921. ANDREINI, CAPT. E. V., Kapit, Sarawak.
1908. ARTHUR, J. S. W., M.A., Assistant Adviser, Kedah.
1921. AUSTEN, K. W. H., c/o Police Office, Penang.
1908. * AYRE, C. F. C., High School, Malacca.
1921. AZIZ, UNKU ABDUL, Johore Bahru, Johore.
1915. BADDELEY, F. M., B.A., Under Secretary, Singapore.
1921. BADHEKA, MOHAUL O., 21 Malacca Street,
Singapore.
1919. * BAILEY, A. E., Mountmillan, Knowles Hill, Newton
Abbott, England.
1915. BAIN, NORMAN K., B.A., Ipoh, Perak.
1912. † BAKER, A. C., M.C., B.A., Penang.
1921. * BALL, H., Inspector of Schools, Malacca.
1916. BANKS, H. H., Sanitary Board, Seremban.

1899. * BANKS, J. E., c/o The American Bridge Co.,
Cambridge, Pa., U. S. A.
1920. BARBOUR, DR. T., Museum of Comparative Zoology,
Harvard University, Cambridge, Mass., U. S. A.
1920. BARDHAM, RAJ SAHIB, S.N., Medical School, Singa-
pore.
1921. BARNES, J. R., Kuching, Sarawak.
1910. BARTLEY, W., M.B.E., B.A., c/o Secretariat, Singa-
pore.
1921. BAUGHAN, G. E., S.S. Police, Singapore.
1914. BAZELL, C., Vade and Co., Singapore. (Hon. Librar-
ian 1916-20: Hon. Treasurer 1921—).
1909. BEAN, A. W., c/o Messrs Robinson and Co., Singa-
pore.
1921. BEARD, H., The Asiatic Petroleum Co., Miri,
Sarawak.
1921. BELGRAVE, W. N. C., Agric. Dept., Kuala Lumpur.
1913. BELL, V. G., Kuala Lumpur.
1921. BELL, W. C. B., Bell and Co., Singapore.
1921. BENJAMIN, MAJOR E. V., M.C., Asiatic Petroleum
Co., Miri, Sarawak.
1910. * BERKELEY, H., F. M. S. Civil Service, Grik, Upper
Perak.
1912. BICKNELL, J. W., U. S. Rubber Plantations, Inc.,
1790 Broadway, New York, U. S. A.
1885. BICKNELL, W. A. 3 Alexandra Terrace, Exmouth,
Devon.
1908. BISHOP, MAJOR C. F., R. A.
1921. BLACK, MAJOR K., Tan Tock Seng Hospital, Singa-
pore.
1884. † BLAND, R. N., C.M.G., c/o Messrs H. S. King and
Co., 9 Pall Mall, London, S. W. England, (Coun-
cil, 1898-1900: Vice-President, 1907-1909).
1921. BLASDELL, REV. R., Anglo-Chinese School, Ipoh,
Perak.
1910. BOULT, F. F., Limbang, Sarawak.
1919. * BOURNE, F. G., D. P. P.'s Office, Singapore.
1921. BOYD, R., Labour Office, Penang.
1918. BOYD, W. R., Bentong, Pahang.
1915. BOYD-WALKER, J. W., Barker and Co., Singapore.
1913. † BRADELL, R. St. J., Bradell Bros., Singapore.
1918. BRADNEY, G. P., Audit Office, Kuala Lumpur.
1921. BRATTON, A. G., Messrs Guthrie and Co., Singapore.
(Council 1921—).
1897. BROCKMAN, SIR EDWARD L., K.C.M.G., 88 Cannon
Street, London, E. C. 4.

1909. † BROOKS, C. J., Lebong Tandai, Post Ketaun, Benkoelen, Sumatra.
1909. BROWN, MR. JUSTICE A. V., Johore Bahru, Johore.
1915. BROWN, C. C., B.A., c/o Crown Agents, London.
1921. BROWNE, T. W., Kuala Pilah Estate, Negri Sembilan.
1913. * BRYAN, J. M., c/o Messrs The Borneo Co., Ltd., Fenchurch Street, London, E. C.
1887. BRYANT, A. T., Messrs Bryant and Ryde, 37 Marsh Lane, London, E. C., (Council 1907, 1910; Vice-President, 1912, 1914-1916).
1912. † BURKILL, I. H., Botanic Gardens, Singapore, (Council, 1913, 1921—: Hon. Secretary, 1914-1917).
1921. BUTTERFIELD, H. M., Alor Star, Kedah.
1913. † CALDECOTT, ANDREW, B.A., Secretariat, Kuala Lumpur.
1921. CAMPBELL, F. M., Wardieburn Estate, Kuala Lumpur.
1916. † CAMPBELL, PROFESSOR J. Argyll, M.D., D.Sc., c/o Messrs W. and F. Haldane, 4 North Charlotte St., Edinburgh, Scotland, (Council 1917, 1919).
1918. CARMAEL, H., Municipality, Singapore.
1921. * CAVENDISH, A., Taiping, Perak.
1910. CHANCELLOR, HON. CAPT. A. R., Inspector-General of Police, Singapore.
1906. CHAPMAN, W. T., B.A., c/o Crown Agents, London.
1921. CHASEN, F. N., M.B.O.U., Raffles Museum, Singapore.
1921. CHEERS, E., S. S. Police, Trengganu.
1913. * CHOO KIA PENG, THE HON. MR., Kuala Lumpur.
1913. CHULAN, RAJA, IBNI EX-SULTAN ABDULLAH, Kuala Kangsar, Perak.
1921. CLARK, H. T., Inspector of Schools, Singapore.
1921. CLARK, DR. W. E. LE GROS, P. M. O., Kuching, Sarawak.
1921. CLAYTON, G. E., Cadeis' Bungalow, Penang.
1911. CLAYTON, T. W., B.A., Adviser, Perlis.
1914. * CLEMENT, W. R. T., Mukah, Sarawak.
1917. CLIFFORD, G. F. W., Ayer Kuning South, Negri Sembilan.
1920. * COLLENETTE, C. L., c/o Barker and Co., Singapore.
1897. * CONLAY, W. L., Kuala Lumpur.
1921. CONNELL, MRS. J. J., c/o Connell Bros., Singapore.
1899. COOK, REV. J. A. B., Gilstead, Singapore.
1910. COOK, W. WALLACE, c/o The Straits Trading Co., Singapore.
1921. COONEY, A. C., Govt. English School, Alor Star, Kedah.

1920. COTTERILL, WALTER S., Miri, Sarawak.
 1921. COULSON, N., Kedah.
 1921. COWAP, J. C., Govt. Analysts' Office, Penang.
 1921. CRANDELL, MISS, Anglo-Chinese Girls' School, Penang.
 1921. CRANNA, GORDON, Y. M. C. A., Singapore.
 1917. CRICHTON, R., District Officer, Kuala Kangsar.
 1921. CROCKER, H. B., Kuching, Sarawak.
 1917. CROSS, REV. W., M.A., Cavanagh Road, Singapore.
 1910. CROUCHER, F. B., M.B., C.M., c/o Crown Agents, London.
 1917. † CUBITT, G. E. S., Conservator of forests, S. S. and F. M. S., Kuala Lumpur.
 1921. CULLEN, W. G., c/o Barker and Co., Singapore.
 1910. * DALY, M. D., Kuala Lumpur.
 1918. * DAVID, P. A. F., B.A., Singapore.
 1921. * DAVISON, A. W., c/o Huttenbach Bros., Singapore.
 1921. DENNYS, S. E., Alor Star, Kedah.
 1907. DINT, F., M.Sc., PH.D., F.I.C., Government Analyst, Singapore.
 1921. DESHMUKH, G. B., Botanic Gardens, Singapore.
 1903. * DESHON, H. F., F.R.G.S., Southfield, Combe Down, Bath, England.
 1921. DICKINSON, A. H., S. S. Police, Singapore.
 1897. DICKSON, E. A., District Officer, Klang, Selangor.
 1921. * DICKSON, P. L., St. Andrews' School, Singapore.
 1920. DODDS, H. B., M.D., General Hospital, Singapore.
 1921. † DOUGLAS, F. W., Commissioner of Lands, Kuala Lumpur.
 1905. DOUGLAS, R. S., F.R.G.S., Baram, Sarawak.
 1921. DRYBURGH, A. M., Jelabu, Negri Sembilan.
 1910. DUNMAN, W., Grove Estate, Grove Road, Singapore.
 1915. * † DUSSEK, O. T., c/o Crown Agents, London.
 1921. EATON, B. J., O.B.E., Agric. Dept., Kuala Lumpur.
 1921. EDWARDS, S. J., A.R., L.B.A., c/o Messrs Booty and Co., Singapore.
 1885. EGERTON, SIR WALTER, K.C.M.G., Fir Toll, Mayfield, England.
 1921. ELDER, DR. E. A., 4 Battery Road, Singapore.
 1918. ELLIOT, F. M., O.B.E., Gosfield Vicarage, Halstead, Essex, England.
 1913. ERMEN, C., Kuching, Sarawak.
 1918. † EVANS, I. H. N., The Museum, Taiping, Perak.
 1910. EVANS, W., Dovercourt, 7 Upper Beulah Road, Upper Norwood, London, S. E. 19.
 1919. FAHS, C. H., Secretary, Missionary Research Library, 25 Madison Avenue, New York City, U. S. A.

1910. FALSHAW, P. S., M.R.C.V.S., Government Veterinary Department, Singapore.
1909. FARRER, R. J., Municipal Offices, Singapore.
1911. * FERGUSON-DAVIE, RT. REV. DR. C. J., Bishop of Singapore. (Council. 1912-1913).
1909. FERRIER, J. C., c/o The Borneo Co., Soerabaya, Java.
1917. FINLAYSON, G. A., M.A., M.B., General Hospital, Singapore.
1919. * FINNIE, W., The United Engineers, Ltd., Singapore.
1910. FIRMSTONE, H. W., Sentosa, Ripple, Dover. (Council 1918-9: Vice-President, 1920).
1897. * FLOWER, MAJOR S. S., O.B.E., Zoological Gardens, Ghizeh, Egypt.
1921. FORRER, H. A., F. M. S., Civil Service, Kuala Lumpur.
1921. FOULGER, R. G., S. S. Police, Singapore.
1918. FOXWORTHY, DR. F. W., Kuala Lumpur.
1921. * FRASER, HON. MR. F. W., Government Secretary, Jesselton, British North Borneo.
1908. FREEMAN, D., c/o Messrs Freeman and Madge, Kuala Lumpur.
1910. * FROST, MEADOWS, B.A., Batu Gajah, Perak.
1912. GALLAGHER, W. J., M.A., U. S. Rubber Plantations, Inc., Medan, Sumatra.
1917. GARNIER, REV. KEPPEL, Penang.
1920. GEALE, DR. W. J., Ulu Kelantan.
1921. GIBSON, L. B., Cadet, Penang.
1903. GIBSON, W. S., B.A., Legal Adviser, Kuala Lumpur.
1902. * † GIMLETTE, DR. J. D., c/o Crown Agents, London.
1916. GLENNIE, DR. J. A. R., Municipal Offices, Singapore.
1918. GLOYNE, G. B., Samarang, Java.
1918. GOLDIE, R. M., United Engineers, Ltd., Ipoh, Perak.
1916. GOODMAN, A. M., B.A., Chinese Secretariat, Kuala Lumpur.
1920. GORDON-HALL, CAPT. W. A., Kuala Lipis, Pahang.
1909. GOULDING, R. R., Survey Dept., Kuala Lumpur.
1919. GOW, G. AUBREY, Lebong Tandai, Benkoelen, Sumatra.
1918. GRAHAM, MAJOR A. McD., c/o Crown Agents.
1921. GRAHAM, W., Sarawak Oilfields, Miri, Sarawak.
1921. GRIFFITHS, C. S., Kuching, Sarawak.
1911. GRIFFITHS, J., Survey Office, Singapore.
1918. GRIFFIN, N. A. M., c/o Crown Agents, London.
1919. GRIST, D. H., Dep of Agriculture, Kuala Lumpur.
1916. GUPTA, SHIVA PRASAD, Nandanshu Street, Benares City, United Provinces, India.

1921. HAINES, W. A. C., A. C. of Police, Alor Star, Kedah.
 1907. HALL, HON. MR. G. A., Resident Councillor,
 Penang. (Vice-President 1921).
 1914. HALL, J. D., B.A., Colonial Secretariat, Singapore.
 1918. HALLAWAY, J. P., Gas Engineer, Singapore.
 1911. * HALLIFAX, F. J., Singapore.
 1921. HAM, G. L., S. S. Civil Service, Singapore.
 1915. † HAMILTON, A. W., Alor Star, Kedah.
 1918. HAMPSHIRE, HON. MR. A. K. E., Kuala Lumpur.
 1921. HANDOVER, W. P., Sungei Nipah Estate, Port
 Dickson.
 1921. HARDIE, J. A. H., Kuching, Sarawak.
 1909. HARRINGTON, A. G., Municipal Offices, Singapore.
 1921. HART, DR. H. H., B.A., 3363, Washington Street, San
 Francisco, California.
 1921. HARVEY, R. N., S. S. Police, Singapore.
 1921. HASHIM, CAPT. N. M., Penang.
 1921. HAWKINS, G., D. O., Balik Pulau, Penang.
 1919. HAY, M. C., B.A., Asst. Adviser, Batu Pahat, Johore.
 1921. HAYES, L. J., c/o Messrs Fraser and Co., Singapore.
 1904. * HAYNES, A. S., Kuala Lumpur. (Council, 1920).
 1921. HENDERSON, M. R., F. M. S. Museums, Kuala
 Lumpur.
 1909. HENNINGS, W. G., c/o Mansfield and Co., Singapore.
 1917. HEREFORD, G. A., M.A., Johore Bahru.
 1878. HILL, E. C., The Manor House, Normandy near
 Guildford, England.
 1921. HOLGATE, M. R., Malay College, Malacca.
 1921. HOLLEMAN, W., Sawah Loento, Sumatra.
 1920. HOLMAN-HUNT, C. B., B.A., c/o Crown Agents,
 London.
 1894. † HOYNCK, VAN PAPENDRECHT, P. C., c/o Heldring
 and Pierson, The Hague, Holland.
 1909. HUBECK, T. R., Kuala Lipis, Pahang.
 1909. HUGHES, J. W. W., c/o Crown Agents, London.
 1907. HUMPHREYS, J. L., Trengganu.
 1921. HOOPS, DR. A. L., P. C. M. O., Singapore.
 1917. * HOSE, DR. CHARLES, F.R.G.S., Redleaf, Riddledown
 Road, Purley, Surrey.
 1897. HOSE, THE HON. MR. E. S., The Residency, Serem-
 ban.
 1921. HUNTER, DR. P. S., c/o Crown Agents, London.
 1921. IRVING, G. C., Ag. Resident, Jesselton, B. N. B.
 1921. ISMAIL BIN BACHOK, DATO, D.P.M.J., Johore Bahru
 Johore.
 1921. IVENS, F. B., Baunton and Bailey, Kuala Lumpur.
 1921. IVERY, F. E., Kedah.

1921. JACQUES, DR. F. V., Medical Officer, Seremban.
 1921. JAEFFAR, INCHE ONN BIN, Johore Bahru, Johore.
 1921. JALALUDIN, AHMED, Malay College, Kuala Kangsar.
 1918. JAMES, D., Goebilt, Sarawak.
 1916. JAMES, HON. MR. F. S., C.M.G., Singapore.
 1910. JAMIESON, DR. T. HILL, 4 Bishop Street, Penang.
 1907. JANION, E. M., 5 Gracechurch St., London. E. C. 3.
 1918. JANSEN, P., T. Pzn., Lebong Tandai, Post Ketaun,
 Benkoelen, Sumatra.
 1918. JEAVONS, F. C., Sione Estate, Batu Caves, Selangor.
 1921. JERMYN, L. A., Malay College, Kuala Kangsar.
 1911. JELE, A. S., Civil Service, Singapore.
 1910. JOHNSON, B. G. H., Telok Anson, Perak.
 1911. JOHNSON, H. S. B., c/o The Borneo Co., Ltd., 28
 Fenchurch Street, London. E. C.
 1920. JOHNSTON, J., Librarian, Raffles Library, Singa-
 pore. (Hon. Librarian 1921—).
 1918. JONES, Fleet Paymaster E. P., 20 Waterbell Street,
 Rye, Sussex, England.
 1910. JONES, H. W., Kuala Kubu, Selangor.
 1913. JONES, S. W., District Officer, Kuala Lipis, Pahang.
 1919. * JORDAN, A. B., Chinese Protectorate, Seremban.
 1921. JOY, M. M., The Asiatic Petroleum Co., Miri,
 Sarawak.
 1916. KAMARALZAMAN, RAJA, BIN RAJA MANSUR, Tapah,
 Perak.
 1921. KASSIM, TUNKU, BIN SULTAN ABDUL HAMID
 HALIMSHAH, Supdt. of Monopolies and Customs,
 Alor Star, Kedah.
 1916. KELLAGHER, G. B., 50 Greenvale Road, Eltham,
 London, S. E. 9.
 1909. KEMP, HON. MR. W. LOWTHER, c/o Messrs F. W.
 Barker and Co., Singapore.
 1913. KEMPE, J. E., c/o Crown Agents, London.
 1920. KERR, DR. A. F. G., Govt. Botanist, Bangkok,
 Siam.
 1921. KINDER, C. S., S. S. Police, Singapore.
 1920. KING, E. M., Juru Estates, Ltd., Province Wellesley.
 1916. KINSEY, W. E., Forest House, Seremban.
 1921. KITCHING, T., District Surveyor, Kuala Kangsar.
 1900. KLOSS, C. BODEN, The Museum, Kuala Lumpur,
 (Council, 1904-1908: Vice-President, 1920-21).
 1915. KNIGHT, VALENTINE, Raffles Museum, Singapore.
 (Hon. Treasurer 1920).
 1920. KOEK, E. R., 29 Malacca Street, Singapore.
 1920. KORTRIGHT, F. H., Bau, Sarawak.

1914. LAMBOURNE, J., Castleton Estate, Telok Anson, Perak.
1920. LAW, CAPT. H. R. S., c/o The Asiatic Petroleum Co., Ltd., Singapore.
1906. † LAWRENCE, A. E., Kuching, Sarawak.
1921. LEE, J. ROMANIS-, St. John's Hall, Hongkong.
1921. LEE, L. G., Labu Estate, British North Borneo.
1913. LEICESTER, DR. W. S., Kuantan, Pahang.
1917. LEMBERGER, V. V., c/o The United Engineers, Ltd., Singapore.
1894. * LEMON, HON. MR. A. H., c/o Crown Agents, London. (Vice-President, 1916-18).
1920. LENDRICK, J., Norregate 34, Aarhus, Denmark.
1890. LEWIS, J. E. A., B.A., Harada Mura, Kobe, Japan.
1915. LEWTON-BRAIN, L., Director of Agriculture, Kuala Lumpur.
1897. LIM BOON KENG, DR. O.B.F., M.D., c/o The Dispensary, Singapore, (Council, 1921).
1915. LIM CHENG LAW, Millview, Penang.
1921. LINDON, N. L., S. S. Police, Singapore.
1918. LOH KONG IMM, Sepang-Tanah Merah Estate, Sepang, Selangor.
1914. LORNF, J., Land Office, Singapore.
1909. LOW, H. A., c/o Messrs Adamson, Gilfillan and Co., Singapore.
1921. LOWE, CAPT. C. P., Kuching, Sarawak.
1918. LUCK, G. H. R., M.R.C.S., c/o Crown Agents, London.
1921. LYNCH, J. R., c/o F. M. S. Railways, Singapore.
1907. LYONS, REV. E. S., c/o Methodist Publishing House, Manila, P. I.
1918. MACALISTER, G. H., M.A., B.CH., M.D., D.P.H., M.R.C.S., Medical School, Singapore.
1920. MACBRYAN, G. T. M., Sibn, Sarawak.
1910. * † MACFADYEN, ERIC, c/o Sports Club, London.
1920. MACKIE, VIVIAN, Kuala Lumpur.
1910. MACLEAN, L., Singapore.
1921. MACMILLAN, I. C., A. S. P., Penang.
1921. MADGE, E. E., Juassch Estate, Kuala Pilah.
1918. MADGE, RAYMOND, Kuala Lumpur.
1920. MAHMUD, RAJA, BIN RAJA ALI, Agricultural Dept., Kuala Lumpur.
1904. MAHOMED, HON. DATO, BIN MAHBOD, Johore Bahru, Johore.
1903. MAKEPEACE, W., c/o Singapore Free Press, Singapore. (Council, 1914, 1916, 1920: Hon. Librarian, 1909-1912: Vice-President, 1917: Hon. Secretary, 1918-1919).

1908. MAIN, T. W., Cheng Estate, Malacca.
 1921. MALET, A. H., Rengam, Johore.
 1921. MANCHESTER, H. L., Municipality, Singapore.
 1916. MANN, W. E., Chinese English School, Samarang, Java.
 1907. * MARRINER, J. T., Kuantan, Pahang.
 1902. † MARRIOTT, THE HON. MR. H., B.A., General Adviser, Johore. (Council, 1907-1908, 1910-1913, 1915-1918; Vice-President, 1919).
 1909. MARSH, F. E., Municipal Offices, Singapore.
 1920. MARSH, W., Municipality, Singapore.
 1909. MARSHALL, HAROLD, B., 8 Medina Villas, Hove, Sussex.
 1918. MARTIN, T. A., North Lansdale, B. C., Canada.
 1921. MARTON and Co., Ltd., Tokyo, Japan.
 1921. MATHER, N. F. H., The Fort, Klang.
 1921. † MAXWELL, C. N., District Officer, Klang.
 1903. † MAXWELL, HON. MR. W. G., C.M.G., Kuala Lumpur. (Council, 1905, 1915; Vice-President, 1911-1912, 1916, 1918, 1920; President, 1919).
 1909. MAY, C. G., c/o Crown Agents, London.
 1909. McARTHUR, M. S. H., Alor Star, Kedah.
 1920. McCART, DR. J. B., M.C., M.B., Ch.B., Kapoewas Estate, Pontianak, West Borneo.
 1897. McCARTSLAND, C. F., Kuala Lumpur.
 1920. McIVER, MISS AGNES, Kuala Lumpur.
 1921. McLEOD, D., King Edward's School, Taiping, Perak.
 1914. † MEAD, J. P., Forest Dept., Kuching, Sarawak.
 1920. MILLAR, J. W. R., Port Dickson.
 1921. MILLER, J. L., Colonial Secretary's Office, Singapore.
 1910. MILLER, T. C. B., Fairlie, Nassim Road, Singapore.
 1921. MILLS, COMMANDER, J. F., R.N., I.S.O., Port Swettenham.
 1920. MONK, H. F., B.A., Mersing, Johore.
 1920. MORKILL, A. G., c/o Crown Agents, London.
 1921. MORFAT, R. M., Asiatic Petroleum, Miri, Sarawak.
 1921. MOHAMMED, SYED, BIN SYED ALI IDID, Chief Magistrate, Alor Star, Kedah.
 1921. MORGAN, S., Macfadyen, Wilde and Co., Singapore.
 1909. * † MOULTON, MAJOR J. C., O.B.E., M.A., B.Sc., Director, Raffles Museum and Library, Singapore, (Council 1916-1919: Hon. Secretary 1920,—).
 1921. MOUTAT, DR. J. R. KAY, King Edward VII Medical College, Singapore.
 1920. MOWBRAY, G. A., de Chede, Asst. District Officer, Kuala Kangsar.
 1915. * MUNDELL, H. D., c/o Messrs Sisson and Delay, Singapore.

1920. MURISON, HON. STR J. W., Singapore. (President, 1920-21).
1913. MURRAY, REV. W., M.A., Gilstead Road, Singapore.
1921. NAGALINGAM, C. K., Anglo-Chinese School, Port Swettenham.
1917. NAGLE, REV. J. S., M.A., Singapore.
1909. † NATHAN, J. E., B.A., c/o Crown Agents, London.
1921. NATHAN, S. J., Sarawak Oilfields, Miri, Sarawak.
1921. NEILSON, MAJOR J. B., M.C., Education Dept., Alor Star, Kedah.
1920. NEUBRONNER, A. W., 1 Killiney Road, Singapore.
1920. NEUBRONNER, C. A., Singapore.
1910. NIVEN, W. G., 111, Derby Crescent, Kelvinside, Glasgow, Great Britain.
1900. NORMAN, HENRY, Alor Star, Kedah.
1920. NORRIS, F. DE LA MARE, B.S.C., F.E.S., Kuala Lumpur.
1906. NUNN, B., B.A., Ag. District Judge, Singapore.
1920. NUTT, W., O.B.E., c/o Straits Trading Co., Singapore.
1911. O'MAY, J., c/o Messrs Barker and Co., Singapore.
1916. ONG BOON TAT, Messrs Ong Sam Leong and Co., Stamford Road, Singapore.
1921. ONG THYE GHEE, 39-2, Dickson Road, Singapore.
1921. ORCHARD, H. A. L., St. Andrews' School, Singapore.
1921. OSBORNE, R. B., M.C., Private Secretary, Government House, Singapore.
1920. O'SULLIVAN, T. A., Education Dept., Kuala Lipis, Pahang.
1920. OTHMAN, MEGAT, Secretary to Majlis Ugama Islam, Kota Bahru, Kelantan.
1913. † OVERBECK, H., c/o Belm, Meyer and Co., Samarang, Java.
1919. PARK, MUNGO, Vimy Estate, Kuang, Selangor.
1921. PARNELL, E., Kuching, Sarawak.
1908. * † PARR, THE HON. MAJOR C. W. C., O.B.E., Residency, Taiping, Perak.
1921. PEDLOW, J., Asst. Protector of Chinese, Penang.
1921. * PATERSON, MAJOR H. S., Civil Service, Trengganu.
1921. PEACH, REV. Anglo-Chinese School, Penang.
1917. PEARS, R., c/o F. W., Barker and Co., Singapore. Kota Bahru, Kelantan.
- 1921.. PENDLEBURY, H. M., The Museum, Kuala Lumpur.
1914. † PEPYS, W. E., Secretariat, Kuala Lumpur.
1920. PERKINS, C. J., Survey Dept., Kuala Lumpur.
1917. PERKINS, D. Y., Messrs Drew and Napier, Singapore.
1920. PESKETT, A. D., "Simla," Halland, Sussex, England.
1920. PETERS, E. V., Kuala Kemaman, Trengganu.

1921. * PLUMMER, W. P., Messrs Derrick and Co., Singapore.
1921. PONNAMBALAM, P. N., Messrs Coode, Mathews, Fitzmaurice and Wilson, Johore Bahru, Johore.
1910. PRATT, CAPT. E., Kuala Lumpur.
1921. PRICE, C. W. H., S. S. Police, Singapore.
1906. PYKETT, REV. G. F., M. E. Mission, Penang.
1921. RAFFLES, MAJOR STAMFORD, O.B.E., Deputy Commissioner of Trade, Kuala Lumpur.
1915. RAGGI, J. G., Phlab Phla Jai Road, Bangkok, Siam.
1917. RATTRAY, DR. M., Europe Hotel, Singapore.
1916. RAYMAN, L., c/o Fed. Secretariat, Kuala Kubu.
1910. * REID, DR. ALFRED, c/o Principal Med. Officer, Kuala Lumpur.
1910. REID, ALEX, c/o Messrs McAlister and Co., Singapore.
1921. REIS, H. C., Asiatic Petroleum Co., Miri, Sarawak.
1921. REX, MARCUS, Kuala Lumpur.
1915. RICHARDS, A. F., Colonial Secretary's Office, S'pore.
1921. RICHARDS, MAJOR F. W., D.S.O., M.C., Sarawak Oilfields, Miri, Sarawak.
1911. RICHARDS, R. M., The Caledonia Estate, Province Wellesley.
1918. RITCHIE, C., The Sagga Rubber Estates, Siliau, F. M. S.
1912. ROBERTSON, J., c/o Messrs Lyall and Evatt, Singapore.
1911. ROBINSON, H., c/o Messrs Swan and Maclaren, Singapore. (Council 1916-1920).
1904. † ROBINSON, H. C., The Museum, Kuala Lumpur. (Vice-President, 1909, 1913; Council 1920).
1916. ROGERS, A., H.M.I.C.E., Jasin, Malacca.
1921. ROSS, E. A., Labour Office, Penang.
1896. ROSTADOS, E., Lunas, South Kedah. (Council, 1901).
1921. RUSTON, J. A. V., McNeill and Co., Samarang, Java.
1921. RUTTER, MAJOR E. O., Wattisfield Croft, Suffolk, England.
1921. SALLEH, INCHE MOHAMED, BIN ALI, S.M.J., Postmaster-General, Johore Bahru.
1921. SANGUINETTI, MAJOR W. R., O.B.E., M.A., State Engineer, Alor Star, Kedah.
1919. SANTRY, DENIS, Swan and Maclaren, Singapore.
1920. SATHASIVAM, M., Public Works, Dept., Johore Bahru.
1921. SAUCHELLI, V., Kent Estate, Batu Caves, Selangor.
1896. SAUNDERS, THE HON. MR. C. J., B.A., Official Assignee, Singapore. (Vice-President 1910-1911, 1914-1915; President, 1916-1918).

LIST OF MEMBERS.

1920. SCHAREFF, DR. J. W., Health Office, Singapore.
 1921. SCHIDER, DR. R., Asiatic Petroleum Co., Miri, Sarawak.
 1920. * SCOTT, DR. G. WAUGH, Sungei Siput, Perak.
 1910. SCOTT, R., B.A., Malacca.
 1906. † SCRIVENOR, J. B., Govt. Geologist, Batu Gajah, Perak.
 1888. SEAH LEANG SEAH, c/o Chop Chin Hin, Singapore.
 1921. SEAR, DUNCOMBE, Barker and Co., Kuala Lumpur.
 1915. * SEE TIONG WAH, c/o Hongkong and Shanghai Bank Singapore.
 1918. SENNETT, C. W. A., B.A., Kuala Lumpur.
 1921. SHERIFF, MOHAMED, BIN OSMAN, Under Secretary, Alor Star, Kedah.
 1921. SIMPSON, P., Presgrave and Mathews, Penang.
 1909. SIMS, W. A., c/o Commercial Union Assurance Co., Singapore.
 1912. SMITH, HARRISON, W., Papeete, Tahiti.
 1921. SIRCOM, H. S., c/o Crown Agents.
 1921. SKRINE, W. F. DE V., Kuching, Sarawak.
 1921. SMART, W., Sarawak Oilfields, Miri, Sarawak.
 1921. SMITH, DR. G. T. FOSTER, Asiatic Petroleum Co., Miri, Sarawak.
 1921. SMITH, CAPT. S. R., O.B.E., P. W. D., Kuala Lumpur.
 1920. SOH YIEW JIN, L., Devonshire Road, Singapore.
 1910. SONG ONG SIANG, HON. MR., M.A., LL.M., c/o Messrs Aitken and Ong Siang, Singapore.
 1921. SOUTH, F. W., Dept. of Agriculture, Kuala Lumpur.
 1918. STANTON, DR. A. T., Kuala Lumpur.
 1910. STEEDMAN, R. S., Rahman Hydraulic Tin, Intau, Perak.
 1920. STEVENS, F. G., Rodyk and Davidson, Singapore.
 1910. STILL, A. W., c/o Straits Times, Singapore. (Council, 1914-1915).
 1917. * † STIRLING, W. G., Singapore.
 1921. STOOKE, G. BERESFORD, Kuching, Sarawak.
 1921. STOWELL, DE LA M., Malay College, Kuala Kangsar.
 1911. STUART, E. A. G., Alor Star, Kedah.
 1921. STUBINGTON, W. H., Survey Dept., Kuala Lipis, Pahang.
 1910. † STURROCK, A. J., Kuala Kubu.
 1917. SUMNER, H. L., c/o Crown Agents, London.
 1921. SUTCLIFFE, H., R. G. A. Research Laboratory, Pataling, Selangor.
 1912. SWAYNE, J. C., Bintulu, Sarawak.
 1918. SYKES, G. R., M.A., Chinese Protectorate, Singapore.

1908. TAN CHENG LOCK, 59, Heeren Street, Malacca.
 1913. TAYLOR, LT. CLARENCE, J., Telok Manggis Estate, Sepang, Selangor.
 1921. TAYLOR, E. R., Estates Dept., Singapore Harbour Board, Singapore.
 1917. TENNENT, M. B., Chiengmai, Siam.
 1921. TERRELL, A. K. & BECKETT, Presgrave and Mathews, Penang.
 1921. THOMAS, L. A., A. S. of Police, Singapore.
 1920. THOMSON, H. W., B.A., British Adviser, Kelantan.
 1921. TREWIN, H. P., Govt. Printing Office, Singapore.
 1921. TYTE, LT. COL. J. H., Inspector of Prisons, Singapore.
 1918. UDA, RAJA Kuala Pilah, Negri Sembilan.
 1918. VALPY, G. C., B.A., Income Tax Office, Singapore.
 1887. † VAN BEUNINGEN, VAN HELSDINGEN, DR. R., 135 Bukit Timah Road, Singapore. (Hon. Librarian, 1914-1915, 1920).
 1921. VISSER, W. D., Netherland Consular Service, Singapore.
 1921. WADE, F. W., Architect, P. W. D., Alor Star, Kedah.
 1921. WALTON, B. S., Govt. Monopolies, Penang.
 1909. WARD, A. B., Kuching, Sarawak.
 1920. WARNER, W. H. LEE, Singapore.
 1917. WATSON, J., Education Office, Penang.
 1916. WATSON, J. G., Forest Dept., Johore Bahru, Johore.
 1916. WATSON, DR. MALCOLM, Klang, Selangor.
 1921. WEBB, MAJOR G. R. H., O.B.E., E. E. Telegraph Co., Singapore.
 1920. WEISBERG, H., District Officer, Jelebu, N. S.
 1920. WELLER, A. J., B.D., Chief Inspector of Schools, S. S., and F. M. S., Kuala Lumpur.
 1910. WHITEHEAD, C. B., Police Office, Butterworth, Province Wellesley.
 1920. † WILKINSON, R. J., C.M.G., c/o Messrs Giraud and Co., Smyrna, Asia Minor.
 1921. WILLBOURNE, E. S., Asst. Geologist, Batu Gajah, Perak.
 1921. WILLIAMS, E. T., Colonial Secretary's Office, Singapore.
 1921. WILLIAMS, R. M., Paterson Simons & Co., Singapore.
 1910. WILLIAMS, S. G., Municipal Offices, Singapore.
 1919. WILLSON, F. K., Segamat, Johore.
 1921. WILSON, DR. W. B., M.C., 4 Battery Road, Singapore.
 1910. * WINKELMANN, H., Malacca Street, Singapore.
 1904. † WINSTEDT, R. O., M.A., D.LITT., Singapore. (Vice-President, 1914-1915, 1920-21).
 1918. WOLDE, B., Somme Rubber Co., Ltd., South Kedah.

1910. WOLFERSTAN HON. MR. L. E. P., M.A., Resident
Councillor, Malacca.
1902. WOLFF, E. C. H., B.A., Director of Education,
Singapore.
1908. * WOOD, E. G., c/o Henry S. King and Co., London.
1913. WOOD, W. L., The Cedars, Balsham, Cambridge,
England.
1920. WOOLLEY, G. C., Sandakan, British North Borneo.
1911. WORSLEY-TAYLOR, F. E., Vade and Co., Singapore.
1915. * WORTHINGTON, A. F., Taiping Perak.
1921. WÜRTZBURG, C. E., 52 Grange Road, Singapore.
1914. WYLEY, A. J., Lebong Tandai, Benkoelen, Sumatra.
1917. * YATES, MAJOR W. G., West Kent Regiment, Cox
and Co., 16 Charing Cross, London.
1920. YEWDALL, CAPT. J. C., Sitiawan, Lower Perak.
1916. YOUNG, E. STUART, Kapoewas Estate, Pontianak,
West Borneo.
1904. * YOUNG, H. S., Rosemount, Tain, Rosshire, Scotland.

Members are particularly requested to inform the Hon. Secretary of any changes in their description or address.

RULES
of
The Straits Branch
of the
Royal Asiatic Society.

I. Name and Objects.

1. The name of the Society shall be 'The Malayan Branch of the Royal Asiatic Society.'¹

2. The objects of the Society shall be:—

(a) The increase and diffusion of knowledge concerning British Malaya and the neighbouring countries.

(b) the publication of a Journal and of works and maps.

(c) the formation of a library of books and maps.

II. Membership.

3. Members shall be of three kinds—Ordinary, Corresponding and Honorary.

4. Candidates for ordinary membership shall be proposed and seconded by members and elected by a majority of the Council.

5. Ordinary members shall pay an annual subscription of \$5 payable in advance on the first of January in each year. Members shall be allowed to compound for life membership by a payment of \$50. Societies and institutions are also eligible for ordinary membership.

6. On or about the 30th of June in each year the Honorary Treasurer shall prepare and submit to the Council a list of those members whose subscriptions for the current year remain unpaid. Such members shall be deemed to be suspended from membership until their subscriptions have been paid, and in default of payment within two years shall be deemed to have resigned their membership.

No member shall receive a copy of the Journal or other publications of the Society until his subscription for the current year has been paid.

7. Distinguished persons, and persons who have rendered notable service to the Society may on the recommendation of the Council be elected Honorary members by a majority at a General meeting. Corresponding Members may, on the recommendation

¹ With effect from 1st January 1923.

of two members of the Council, be elected by a majority of the Council, in recognition of services rendered to any scientific institution in British Malaya. They shall pay no subscription: they shall enjoy the privileges of members except a vote at meetings, eligibility for office and free receipt of the Society's publications.

III. Officers.

8. The officers of the Society shall be:—

A President.

Vice-Presidents not exceeding six, ordinarily two each from

(i) The Straits Settlements

(ii) The F. M. S. and

(iii) The Unfederated or other Protected States, although this allocation shall in no way be binding on the electors.

An Honorary Treasurer.

An Honorary Librarian.

An Honorary Secretary.

Four Councillors.

These officers shall be elected for one year at the Annual General Meeting, and shall hold office until their successors are appointed.

9. Vacancies in the above offices occurring during any year shall be filled by a vote of majority of the remaining officers.

IV. Council

10. The Council of the Society shall be composed of the officers for the current year, and its duties and powers shall be:—

(a) to administer the affairs, property and trusts of the Society.

(b) to elect Ordinary and Corresponding members and to recommend candidates for election as Honorary Members of the Society.

(c) to obtain and select material for publication in the Journal and to supervise the printing and distribution of the Journal.

(d) to authorise the publication of works and maps at the expense of the Society otherwise than in the Journal.

(e) to select and purchase books and maps for the Library.

(f) to accept or decline donations on behalf of the Society.

(g) to present to the Annual General Meeting at the expiration of their term of office a report of the proceedings and condition of the Society.

(h) to make and enforce bye-laws and regulations for the proper conduct of the affairs of the Society. Every such bye-law or regulation shall be published in the Journal.

11. The Council shall meet for the transaction of business once a month and oftener if necessary. Three officers shall form a quorum of the Council.

V. General Meetings.

12. One week's notice of all meetings shall be given and of the subjects to be discussed or dealt with.

13. At all meetings the Chairman shall in the case of an equality of votes be entitled to a casting vote in addition to his own.

14. The Annual General Meeting shall be held in February in each year. Eleven members shall form a quorum.

15. (i) At the Annual General Meeting the Council shall present a Report for the preceding year and the Treasurer shall render an account of the financial condition of the Society. Copies of such Report and account shall be circulated to members with the notice calling the meeting.

(ii) Officers for the current year shall also be chosen.

16. The Council may summon a General Meeting at any time, and shall so summon one upon receipt by the Secretary of a written requisition signed by five ordinary members desiring to submit any specified resolution to such meeting. Seven members shall form a quorum at any such meeting.

17. Visitors may be admitted to any meeting at the discretion of the Chairman but shall not be allowed to address the meeting except by invitation of the Chairman.

VI. Publications.

18. The Journal shall be published at least twice in each year, and oftener if material is available. It shall contain material approved by the Council. In the first number in each year shall be published the Report of the Council, the account of the financial position of the Society, a list of members, the Rules, and a list of the publications received by the Society during the preceding year.

19. Every member shall be entitled to one copy of the Journal, which shall be sent free by post. Copies may be presented by the Council to other Societies or to distinguished individuals, and the remaining copies shall be sold at such prices as the Council shall from time to time direct.

20. Twenty-five copies of each paper published in the Journal shall be placed at the disposal of the author.

VII. Amendments to Rules.

21. Amendments to these Rules must be proposed in writing to the Council, who shall submit them to a General Meeting duly summoned to consider them. If passed at such General Meeting they shall come into force upon confirmation at a subsequent General Meeting or at an Annual General Meeting.

Affiliation Privileges of Members.

Royal Asiatic Society. The Royal Asiatic Society has its headquarters at Grosvenor Street, London, W., where it has a large library of books, and MSS. relating to oriental subjects, and holds monthly meetings from November to June (inclusive) at which papers on such subjects are read.

2. By rule 105 of this Society all the Members of Branch Societies are entitled when on furlough or otherwise temporarily resident within Great Britain and Ireland, to the use of the Library as Non-Resident Members and to attend the ordinary monthly meetings of this Society. This Society accordingly invites Members of Branch Societies temporarily resident in Great Britain or Ireland to avail themselves of these facilities and to make their home addresses known to the Secretary so that notice of the meetings may be sent to them.

3. Under rule 84, the Council of the Society is able to accept contributions to its Journal from Members of Branch Societies, and other persons interested in Oriental Research, of original articles, short notes, etc., on matters connected with the languages, archaeology, history, beliefs and customs of any part of Asia.

4. By virtue of the afore-mentioned rule 105 all Members of Branch Societies are entitled to apply for election to the Society without the formality of nomination. They should apply in writing to the Secretary, stating their names and addresses, and mentioning the Branch Society to which they belong. Election is by the Society upon the recommendation of the Council.

5. The subscription for Non-Resident Members of the Society is 30/- per annum. They receive the quarterly journal post free.

Asiatic Society of Bengal. Members of the Straits Branch of the Royal Asiatic Society, by a letter received in 1903, are accorded the privilege of admission to the monthly meetings of the Asiatic Society of Bengal, which are held usually at the Society's house, 1 Park Street, Calcutta.



Exchange List and Donations, 1921.

The following is a list of the Scientific Institutions and Societies on our Exchange List, together with the Publications received from them during the year 1921.

A list of Donations to the Society's Library is also appended.

AMERICA.

Canada.

TORONTO. Royal Canadian Institute.

United States of America.

BALTIMORE. John Hopkins University,

(i) *Circular, New Series*, 1918, Pts. 5-10.

— 1919, Pts. 1-10.

— 1920, Pt. 1.

(ii) *American Journal of Philology*, Vol. 39, 1918, Pts. 2-4, Vol. 40, 1919, Pts. 1-4.

BERKELEY. University of California,

(i) *Bulletin, Scripps's Institution of Biological Research*, No. 9, 1919, No. 10, 1921.

(ii) *Publications in Zoology, Index and Contents*, Vols. 14, 17, 18, 1917-1919; Vol. 19, No. 6, 1919, Vol. 20, No. 7, 1921, Vol. 23, 1921—
(*Marine Decapod Crustacea of California*).

CAMBRIDGE. Museum of Comparative Zoology, Harvard, *Bulletin* Vol. 64, 1920-21, *Index*; Vol. 64, Nos. 3-7, 1921, Vol. 65, Nos. 1-2, 1921.

CHICAGO. Field Museum of Natural History,

(i) *Annual Reports*, 1917, 1918, 1920.

(ii) *Report Series*, Vol. 5, Pts. 3-4.

LINCOLN. University of Nebraska.

NEW YORK. American Museum of Natural History,

(i) *Bulletin*, Vol. 39, 1918-19, Vol. 40, 1919, Vol. 41, 1919.

(ii) *Novitates*, No. 4, 1921.

(iii) *Bibliography of Fishes*.

NEW YORK. Zoological Society, *Bulletin*, Vol. 24, Pt. 2, 1921.

OBERLIN. Oberlin College—Wilson Ornithological Club.

PHILADELPHIA. Academy of Natural Sciences, *Proceedings*, Vol. 71, Pt. 3, 1919, Vol. 72, Pt. 2, 1920.

PITTSBURG. Carnegie Museum,

(i) *Annals*, Vol. 11, Nos. 3-4, 1917, Vol. 12, Nos. 1-4, 1919, Vol. 13, Nos. 1-2, 1920.

(ii) *Mémoires*, Vol. 7, Nos. 5-6, 1920.

(iii) *Annual Reports for 1918-20*.

WASHINGTON. Academy of Sciences, *Proceedings*, Vol. 71, Pt. 3, 1919.

WASHINGTON. Smithsonian Institution, U. S. National Museum,

(i) *Herbarium Contributions*, Vol. 20, Pts. 8-9, 1920, Vol. 22, Pts. 4-5, 1921.

(ii) *Bulletins* 100, Pts. 7-9, and 101, 1920; 105, 106, 109, 1920; 112, 115, 116, 1921.

(iii) *Annual Report*, 1920.

(iv) *Proceedings*, Vol. 56, 1920.

WASHINGTON. United States Department of Agriculture, *Journal of Agricultural Research*, Vol. 20, Pt. 6, 1920, and *Index*; Vol. 21, Pts. 8-12, 1921; Vol. 22, Pts. 1-3, 1921.

HAWAIIAN ISLANDS (HONOLULU). Bernice Pauahii Bishop Museum,

(i) *Memoirs*, Vol. 6, Ser. 3, Pt. 3, 1919, Vol. 8, Pts. 1-2, 1921.

(ii) *Occasional Papers, Report for 1919*, Vol. 7, Pts. 7-9, 1920, Vol. 8, Pt. 1, 1921.

ASIA.

Ceylon.

ANURADHAPURA. Archaeological Survey of Ceylon.

COLOMBO. Ceylon Branch of the Royal Asiatic Society.

COLOMBO. Colombo Museum, "*Spolia Zeylanica*," Vol. 10, Nos. 36-39, 1914-17, Vol. 11, Pts. 43-44, 1918-19.

India.

BOMBAY. Bombay Branch of the Royal Asiatic Society.

BOMBAY. Bombay Natural History Society, *Journal*, Vol. 26, Pt. 5, Vol. 27, Pt. 3, Vol. 28, Pt. 4, 1921.

CALCUTTA. Asiatic Society of Bengal.

(i) *Journal and Proceedings*, Vol. 16, Pts. 5-8, 1920, Vol. 17, Pt. 1, 1921.

(ii) *Numismatic Supplement*, No. 34, 1920, No. 35, 1921, and *Index to No. 32*, 1920.

CALCUTTA. Indian Museum,

- (i) *Memoirs*, Vol. 5, Nos. 7-8, Vol. 6, Vol. 7, No. 3, 1920-21.
- (ii) *Records*, Vol. 18, Nos. 4-5, Vol. 19, Nos. 3-5 and *Index*, Vol. 22, No. 1, 1920-21.
- (iii) *Reports*, 1917-20.

CALCUTTA. University of Calcutta,

- (i) *Journal of the Dept. of Letters*, Vol. 6-7, 1921.
- (ii) " *Post-Graduate Teaching*," 1919-1920.

LAHORE. Panjab Historical Society.

PUSA. Agricultural Research Institute, Memoirs of the Department of Agriculture in India,

- (i) *Entomological Series*.
- (ii) *Bacteriological Series*, Vol. 1. Pt. 8, 1920.
- (iii) *Bulletin*, Nos. 100-115, 1921.

SIMLA. Archaeological Survey of India,

- (i) *Memoirs 3 and 5*, 1920; 7, 8, 9 and 12, 1921.
- (ii) *Reports for Northern, Frontier, Southern and Central Circles*, 1920-21.
- (iii) " *Tile Mosaics of the Lahore Fort*," 1921.

Burma.

RANGOON. Archaeological Survey of Burma,

- (i) *Epigraphia Birmanica*, Vol. 2, Pts. 1-2, 1921.
- (ii) *Report*, 1921.
- (iii) *List of Inscriptions*, 1921.
- (iv) *Amended List of Ancient Monuments*, 1921.

RANGOON. Burma Research Society, *Journal*, Vol. 1, 1911, to Vol. 10, 1920.**Malaysia.**

BORNEO (SARAWAK). Sarawak Museum.

JAVA (BATAVIA). Bataviaasch Genootschap van Kunsten en Wetenschappen,

- (i) *Notulen van de Algemeene en Directievergaderingen*, Deel 58, 1920.
- (ii) *Tijdschrift voor Indische Taal-, Land- en Volkenkunde*, Deel 59, Pts. 5, 1920, and 6, 1921; Deel 60, Pts. 1-2, 1921.
- (iii) *Oudheidkundig Verslag, tweede, derde en vierde Kwartaal 1920, eerste en tweede Kwartaal 1921*.

JAVA (BATAVIA). Commissie voor de Volkslectuur, " *Geschiedenis van Java*," 1920.

JAVA (BATAVIA). Het Algemeen Proefstation der A.V.R.O.S., Mededeelingen,

- (i) *Algemeene Serie*, Pts. 10, 11 and 13, 1921, and *Engl. Translation of Pt. 8*, 1920.
- (ii) *Rubberserie*, Pts. 27-31, 33, 1921.

JAVA (BATAVIA). Topografische Dienst, *Jaarverslag, 1919, Deele 1-2, (1920).*

JAVA (BUITENZORG). . Department van Landbouw, Nijverheid en Handel in Nederlandsch Indië, *Mededeelingen, No. 41, 1920.*

JAVA (BUITENZORG). Jardin Botanique de Buitenzorg, *Bulletin, Ser. 3, Parts 1-3, 1921, and Index, Vol. 2.*

MALAY PENINSULA (KUALA LUMPUR). Department of Agriculture, F.M.S., *Agricultural Bulletin, Vol. 8, Pts. 3-4, 1920, Vol. 9, Pt. 1, 1921.*

MALAY PENINSULA (KUALA LUMPUR). F.M.S. Museums, *Journal, Vol. 8, Pt. 2, 1918. Vol. 9, Pt. 3, Vol. 10, Pt. 3, 1921.*

SINGAPORE. Botanic Gardens, *Bulletin, Vol. 2, No. 12, 1921.*

SINGAPORE. Raffles Museum and Library, *Report, 1919-20.*

Siam.

BANGKOK. Natural History Society of Siam, *Journal, Vol. 4, Pts. 2-3, Vol. 5, Pt. 1, 1921.*

BANGKOK. Siam Society.

BANGKOK. The Vajiranana National Library.

Indo-China.

HANOI. L'École Française de L'Extrême Orient, *Bulletin, Tome 20, Pt. 3, 1920.*

SAIGON. La Société des Études Indo-Chinoises, *Bulletin, No. 70, 1921.*

Philippine Islands.

MANILA. Bureau of Science,

(i) *Philippine Journal of Science, Vol. 17, Pts. 3-5, 1920, Vol. 18, Pts. 1-6, Vol. 19, Pts. 1-3, 1921.*

(ii) *Annual Report, 19th, 1921.*

China.

SHANGHAI. North China Branch of the Royal Asiatic Society, *Journal, Vol. 52, 1921.*

Japan.

TOKYO. Asiatic Society of Japan.

Australia.

ADELAIDE. Royal Society of South Australia, *Transactions and Proceedings, Vol. 44, 1920.*

SYDNEY. Royal Society of New South Wales, *Journal and Proceedings, Vol. 52, 1918, and Vol. 53, 1919.*

EUROPE.**Belgium.**

BRUXELLES. Société Belge d'Études Coloniales.

Finland.

HELSINGFORS. Finska Vetenskaps-Societeten.

- (i) *Bidrag till Kannedom*, II. 78, Pts. 2 and 5, 1920, II. 79, Pt. 1, 1919, Pt. 2, 1920, II. 80, Pts. 1-2, 1921.
- (ii) *Öfversigt*, 61c, 62a, b, 63a, b, 1921.
- (iii) *Acta Societatis Scientiarum Fennicae*, Tome 48, Pts. 5-7, Tome 49, Pts. 1-2, Tome 50, Pts. 1-2, 1919-21.

France.

HAVRE. Société de Géographie Commerciale du Havre, *Bulletin*, Vol. 37, 1920.

MARSEILLES. Société de Géographie et d'Études Coloniales.

PARIS. Commission Archéologique de l'Indo-Chine.

PARIS. Institut Français d'Archéologie Orientale.

PARIS. L'École des Langues Orientales.

PARIS. Société Asiatique de Paris, *Journal Asiatique*, 11 Série, Tome 16, Pts. 1-2, 1920, Tome 17, Pts. 1-2, 1921.

PARIS. Société de Géographie, "La Géographie," Tome 35, Pts. 1-5, Tome 36, Pts. 1-3, 1921.

PARIS. Société de Géographie Commerciale de Paris, "Revue Économique Française," Tome 43, Pt. 2, 1921.

PARIS. Société de Linguistique de Paris.

- (i) *Memoirs*, Tome 21, Pt. 6, 1920, Tome 22, Pts. 1-2, 1920, Pts. 3-4, 1921.
- (ii) *Bulletin*, No. 68, 1920.

Great Britain.

LONDON. British Museum (Natural History).

LONDON. Royal Anthropological Institute, *Journal*, Vol. 51, Jan.-June, 1921.

LONDON. Royal Asiatic Society of Great Britain and Ireland, *Journal* 1921.

LONDON. Royal Botanic Gardens, Kew,

- (i) *Bulletin*, 1920.
- (ii) *General Index to Bulletins*, 1887-1918.
- (iii) *Additional Series*, Vol. 11.

LONDON. Royal Colonial Institute, "United Empire," Vol. 12, 1921.

LONDON. School of Oriental Studies, London Institution, *Bulletin*, Vol. 2, Pt. 1, 1921.

LONDON. Zoological Society of London,

(i) *Proceedings*, Pts. 1-3, 1920.

(ii) *List of the Fellows, to May 1921.*

(iii) *Report, 1920.*

Holland.

AMSTERDAM. Koloniaal Instituut.

AMSTERDAM. Koninklijk Nederlandsch Aardrijkskundig Genootschap, *Tijdschrift*, Deel 38, Pts. 1-6, 1921.

HAGUE. Koninklijk Instituut voor de Taal-, Land- en Volkenkunde van Nederlandsch Indië, *Bijdragen*, Deel 77, Pts. 1-2, 1921.

LEIDEN. Ethnographisches Reichsmuseum.

LEIDEN. Universiteits Bibliotheek.

Sweden.

STOCKHOLM. K. Svenska Vetenskapsakademien,

(i) *Arkiv för Zoologie*, Band 14, Pts. 1-2, 1921.

(ii) *Arkiv för Botanik*, Band 16, 1921.

UPSALA. Royal University Library.

Switzerland.

ZURICH. Naturforschende Gesellschaft, *Vierteljahrschrift*, Vol. 65, Pts. 3-4, 1920, Vol. 66, Pts. 1-2, 1921.



DONATIONS.

AMERICA (NORTH).

Canada.

OTTAWA. Canada Department of Mines.

- (i) *Publications*, Nos. 369 and 548, 1921.
- (ii) *Memoirs* 118-124, 1921.
- (iii) *Bulletin*, Nos. 31, 32, 39, 1921.
- (iv) *Summary Report*, 1919 and 1920.

United States of America.

BOSTON. Museum of Fine Arts, *Bulletin*, Vol. 29, Pt. 114, Aug. 1921.

NEW YORK. Cornell University Agricultural Experiment Station,

- (i) *Bulletins* 400-401, 1920.
- (ii) *Memoirs* 28-29, 1919, 30-33, 1920.

ST. LOUIS. Missouri Botanical Gardens, *Annals*, Vol. 6, Pt. 4, 1919, Vol. 7, Pt. 1, 1920.

URBANA. University of Illinois, *Illinois Biological Monographs*, Vol. 3, Pt. 4, 1917.

Mexico.

VERA CRUZ. Institute Geologico di Mexico,

- (i) *Anales*, No. 9, 1920.
- (ii) *Boletin*, No. 33, Tomo 1-2.

AMERICA (SOUTH).

Argentina.

BUENOS AIRES. Museo Nacional de Buenos Aires, *Anales*, Tomo 26-29, and *Index Tomos* 1-20, 1914-16.

Brazil.

RIO DE JANEIRO. Bibliotheca Nacional do Rio,

- (i) *Boletin Bibliographico*, Nos. 2-4, 1919.
- (ii) *Anales*, Vol. 38, 1916.

ASIA.

Malaysia.

JAVA (BATAVIA). Balai Poestaka, "*Sri Poestaka*" *tahoen* 3, Pts. 1-12, 1921.

JAVA (BATAVIA). *Mijnwezen in Nederlandsch Oost-Indie*, *Jaarboek* 1918, *Verhandelingen* 1.

JAVA (BATAVIA). Moquette (J. P.), "*De oudste Mohammedan-sche Inscriptie op Java, n.m. de Grafsteen te Lérán*," 1921.

JAVA (BATAVIA). Koninklijke Natuurkundige Vereeniging in Nederlandsche Indië, *Naturkundig Tijdschrift, Deel 81, Pts. 1-2, 1921.*

JAVA (BATAVIA). Eerste Congres voor de Taal-, Land- en Volkenkunde van Java, Handelingen,

(i) *Solo, 25-26 Dec., 1919.*

(ii) *Programma voor het Congres van het Java Instituut, June, 1921.*

(iii) *Catalogus van de Houtsnijwerk Tentoonstelling, June, 1921.*

MALAY PENINSULA (KUALA LUMPUR). Committee for Malay Studies, *Papers on Malay Subjects, 2nd Series, No. 5, 1921.*

Japan.

TOKYO. Kaiserliche Universität zu Tokyo, *Mitteilungen aus der Medizinischen Fakultät, Bd. 20, H. 4, Bd. 22, H. 2-4, Bd. 23, H. 1 & 3, Bd. 24, H. 1-3, Bd. 25, H. 1 & 2, 1918-21.*

AFRICA.

Egypt.

CAIRO. Ministry of Public Works, Zoological Service Report, Publication 34, 1921.

EUROPE.

Germany.

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The Grave-Stone of Sultan Mansur Shah of Malacca (1458-1477 A. D.)

BY J. P. MOQUETTE.

(Translated by Dr. R. O. Winstedt from the *Journal of the Batavian Society*, Vol. LIX, Part 6).

In the J. R. A. S., S. B., June 1918, pp. 47-48, Dr. R. O. Winstedt gave a description with photos of two grave-stones purporting to be from the tomb of Sultan Mansur Shah of Malacca.

It occurred to me at once that the two stones in no way matched, either in shape or ornament or workmanship. The head-stone undoubtedly once was placed on a tomb, while the other stone* belongs to the kind that lies on the ground. On all tombs and graves known to me head and foot stones correspond and it would be very strange if there were any departure from this custom at Malacca especially in the resting place of Sultan Mansur Shah. For the rest I could not learn much from the plates accompanying the article since the inscriptions, blackened for clearness, were thus made illegible.

Winstedt gave readings of the inscriptions on the head-stone and on the sides of the stone from a version procured by Mr. Blagden from Hervey (*op. cit.* p. 47).

I was certain that after the word Mansur should come the name of his father and that the date given was impossible, because (1) one word was not accounted for and (2) the Malay word *dua* seemed very strange in a purely Arabic inscription.

Fortunately I met Mr. I. H. Evans, Curator of the Taiping Museum, who promised to look up the stones for me at Singapore. Both the stones are in Raffles Museum and plaster-casts were made for me by Mr. Valentine Knight, then acting for Major Moulton the Director. Both, as shown in Dr. Winstedt's photos, are blackened. The head-stone has apparently been broken off the tomb, so that the inscription on the lowest line is damaged, and the other stone has a large round hole making the middle line of obverse and reverse illegible. As I am positive that the second stone neither came from the grave of Sultan Mansur nor from any other tomb, I shall leave it out of this discussion.

* NOTE. The stone, in my opinion, has no historical value. Heer G. P. Bouffaer informs me that the round hole in it shows that it was used for the taking of oaths. Should the headstone belonging to it be discovered, possibly my view might not stand. [There is a stone at Pengkalen Kempas, Negri Sembilan, with a round hole in it, which tradition avers will tighten on the arm of the person who takes a false oath R. O. W.].

The head-stone is worth deciphering, because it is so far as is known the only extant stone of the tombs of the Sultans of Malacca and secondly because Mansur Shah played a great part in Malay and Chinese records.

By the help of the casts I was able to decipher the inscriptions and by reconstructing a pair of damaged words to get an absolutely certain reading of the names and of the date. Only the first line presented difficulties but by the help of my friend R. A. Dr. Husein Jaya-diningrat a reading in my opinion satisfactory was secured, so that all the words on that line with the first word of the second line duly accounted for are meant to glorify not the Sultan as in Hervey's version but the grave. Major J. C. Moulton kindly sent me at my request photos of all four sides of the stone which is now placed on a cement pedestal for its better preservation. I give my reconstruction for each side on the accompanying plates so that any one more competent than I may express his views on it.

The reading is as follows: (Plate I. obverse):

هذه الروضة المقدسة المطهرة الزاوية المصافية المنورة السلطان العادل
الملك الباذل السلطان (ن) منوصو (ر) شاه بن مظفر شاه المرحوم

Plate II (Reverse) reads:—

قد انتقل من دار المحال الى دار امال يوم الاربعاء من رجب سنة
ثنتين وثمانين وثمانماية من ال (هجرة) النبوة (ة) ال (مصطفوية)

Compared with the Hervey version it thus reads: *Hadzihi al-raudzat al-mukaddasat al-mutahharat al-zawiyat al-safiyat al-munawwarat lil Sultan al-adil al-badzil al-Sultan Mansur Shah bin Muzaffar Shah al-marhum: kad intakala min dar al-mahal ila dar amal yaum al-arbaa min Rajab sanat thanatein wa thamanin wa thaman mi'ah min al-Hijrah al-Nubawyah al-mustafawyah*
Or translated

"This is the consecrated the holy grave the brilliant illuminated tomb of the just Sultan, the magnanimous ruler Sultan Mansur Shah son of the deceased Muzaffar Shah. He removed from this mortal abode to the abode of hope on Wednesday of Rajab in the year 882 after the Hijrah of the Prophet, the Chosen One."

As my reading of the gravestone differs in many places from that of Hervey, I must add an explanation of some details. The difference in my conception of the words of the first line is great and I take it that *mim* has been broken off in the middle words, and read المطهرة (ة stands in the lower corner), but the reading is of little or no consequence since, once we know who the person entombed is, it matters relatively little if one takes a word to be in praise of the grave or of the dead. However the correct reading of the bottom line on Plate I is of very great importance for the

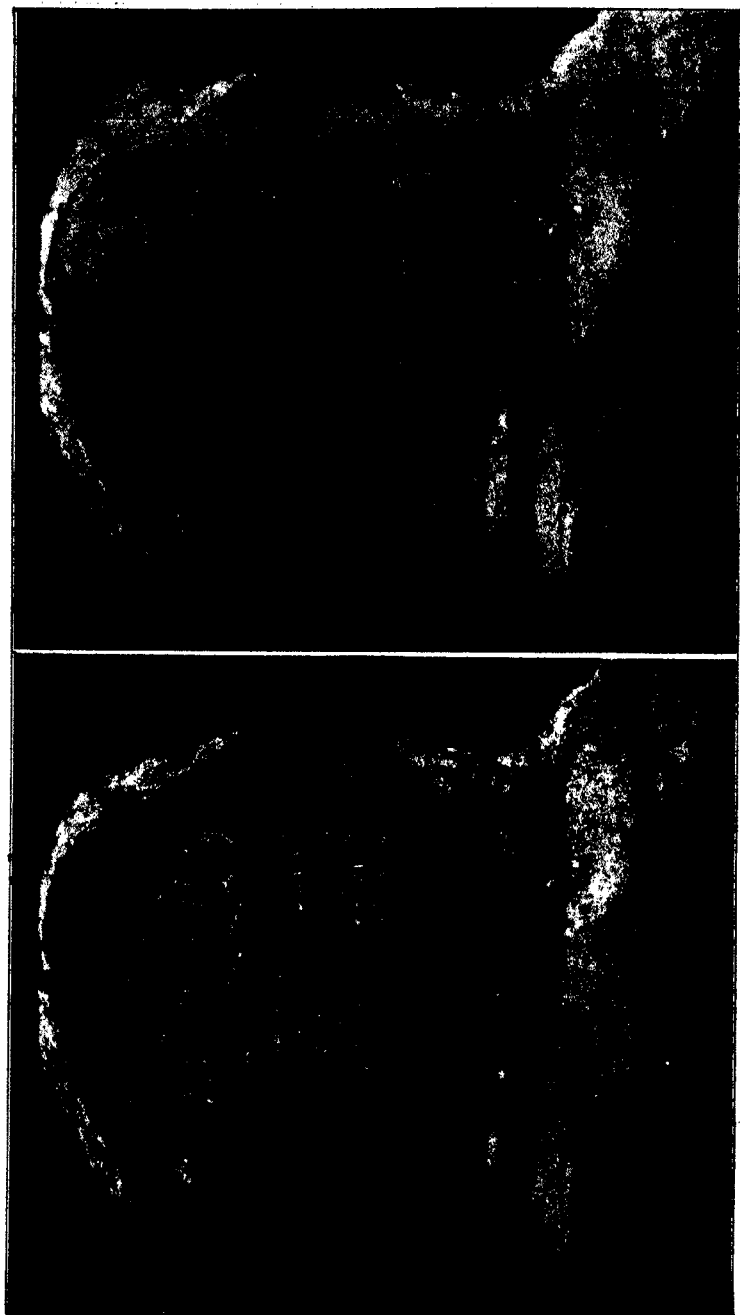


Plate I (obverse)

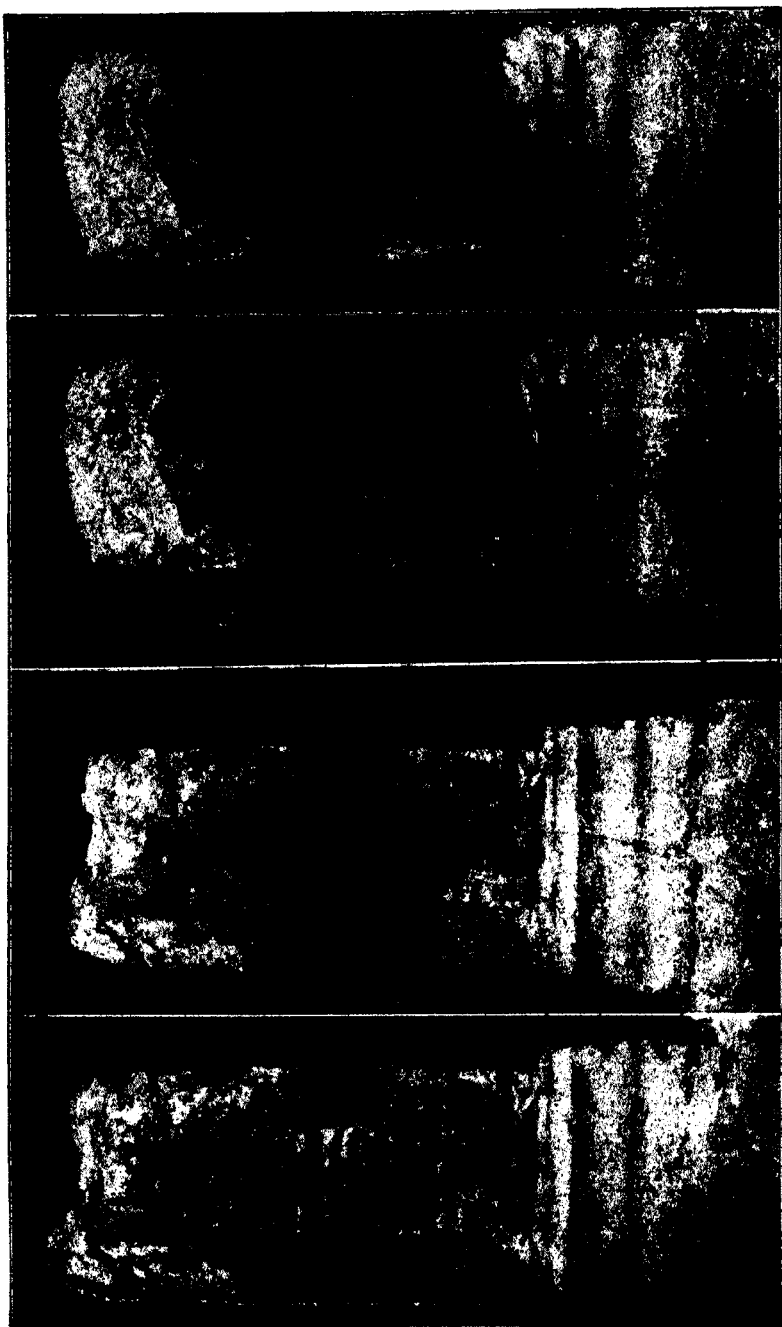


Plate III



Plate II (reverse)

determination of the father's name; it is now irrefragably established that we have to do with the gravestone of Sultan Mansur Shah of Malacca, who according to all accounts was a son of Sultan Muzaffar Shah. It is clear that between "Mansur" and "Muzaffar" the word *بن* stands, but the "r" of "Mansur" and the "n" of "Sultan" cannot be traced. Mistakes on these gravestones are very frequent so that it is quite possible the mason omitted the letters. As regards the reverse, it is clear that in the top line not *dar al-wirad* but *dar amal* occurs. More important however is the date. The cast showed at once how the faulty reading *dua* came about. The flourish of the word *min* has been mistaken for a *dal* and combined with the *wau* of the year been read دو.

In 882 A.H. the month of Rajab began on a Thursday, the 9th of October, 1477 A.D.

So following my reading one must choose between Wednesday the 7th, 14th, 21st or 28th of Rajab 882 A.H. = Wednesday the 15th, 22nd, 29th October or 5th November, 1477 A.D.

Seeing that it seldom happens that the word for "year" is omitted in dates, I have assumed it occurs on this stone and read

سنة with Hervey. I must point out however that one can equally

well read سنة = 6, so that the reading would run

بسم الاربعاء سنة من رجب ثنتين وثمانين وثمانماية

Wednesday 6 Rajab 882 A.H. = Tuesday 14 October, 1477 A.D.

My emendations for the words defaced on the bottom are borne out by the legible lines and require no defence.

Hervey's reading of the side inscriptions is untenable. It is (Plate III) the beginning of a verse repeatedly found on stones in Northern Sumatra:—

انما الدنيا فناء ليس الدنيا ثبوت
الا انما الدنيا كبيت نسجه العنكبوت

which Professor Dr. van Ronkel translated for me as follows:—

"The world is but transitory; the world has no permanence; the world is but as a house made by a spider."

The end of this text occurred probably on the lost foot-stone and the adventures of the stone we have discussed testify to the truth of the words.

I give my best thanks to all who have been kind enough to assist me.

The Malay Pantun.

By H. OVERBECK.

From the study of Malay pantuns arises the question how far this peculiar kind of quatrain is the sole property of the Malays, or if something identical, similar or akin is to be found amongst other peoples in their neighbourhood. Research would naturally turn first to Java, as both the Javanese and the Sundanese language are akin to Malay.

I do not recollect to have heard any Javanese pantuns during my stay in East Java, and J. J. de Hollander, who fully describes the Malay *pantun* and *sĕloka* (on the relationship of the two something will be said later) in his work on the Malay language,¹ does not mention any similar quatrains in his work on the Javanese language.² Plain love songs of cour-e may exist, as given in chapter XIV of the "Sĕjarah Mĕlayu":—the Malay author, by the way, gives to the ditties sung in honour of Hang Tuah the name of *pantun*, though it is not a Javanese name. The word *sĕloka* is known and according to the dictionary means a figurative expression, or way of speaking with the purpose of conveying a thought in a more or less veiled form. Whether the word *sĕloka* is used also to designate moral verses as in India, I have been unable to discover. Generally speaking, Javanese poetry differs entirely from the Malay *shaĕr* and *pantun*: a verse similar to that of the Malay *shaĕr* is unknown. The Javanese poet has at his disposal ten or more different metres, the verses of which have from 4 to 12 lines, the lines being of different structure within each verse, with a rhyme hardly noticeable for a European ear, and a prosody on which the views of learned men differ. In this poetry, wherein the greater part of Javanese literature is written, there is no place for anything like the Malay *pantun*. Mention is made by some writers of the Javanese *wangsallan*, which according to the dictionary is a kind of charade or riddle in verse, wherein in an enigmatical way principally by the last, or also by the first syllable of a word something is hinted at, whilst in a second verse, called *jawab* (answer) the thing hinted is plainly stated. But I cannot give any examples of such *wangsallan* or say if there exists in Javanese any unwritten literature as in Sundanese.

Sundanese poetry generally follows the way of her Javanese sister; the Sundanese poet works with the same metres as his Javanese neighbour, and their names are identical in both languages. But besides the written literature there is the *pantun*, which in Sundanese means a tale taken from legends or from the

1. F. J. de Hollander, *Handleiding tot de Kennis der Maleische Taal-en Letter Kunde*, Breda, 1845, p. 150.

2. F. J. de Hollander, *ib.* 1848.

history of old times, half sung, half recited by the bard, the *tukang pantun*, to the accompaniment of a sort of violin (*tarawangsa*) or lute (*kachapi*). Mr. C. Pleyte has edited some of these Sundanese *pantun* with their different versions, together with a synopsis, a partial translation and a glossary.¹ Although these tales are taken mostly from legends or history of old times, they resemble the Malay *penglipor lara* tale, being also interspersed with blank verse and *sindir*.

The blank verse Mr. Pleyte calls *purwakanti*, a Javanese word which according to the dictionary means "a verse or verses, being a combination of words having the same sound, which sometimes are not much more than jingling nonsense." These blank verse, often roughly humorous, describe the proceedings of a festival, the dress of a man or woman, their way of walking or journeying and so on and they are often repeated. Without being quite identical with the blank verse of the Malay *penglipor lara* tale, they have the same metre and quaintly resemble them in their way of being used. An attempt at a translation would be pretty hopeless for anybody but a Rabelais; they abound in onomatopoeics and synonyms, in which the Sundanese language is exceedingly rich.

As regards the *sindir* appearing in the *pantun* edited by him, Mr. Pleyte in the preface to the glossary writes as follows:

"To Mr. J. Knebel . . . is due the credit of having pointed out the nature of the Javanese *wangsallan*, i.e. charades, of which the beginning lines give the rhyme-word for the solution given in the following lines. So too, many of *sindir*, are something more than simple rhymes, which they are always represented to be. They contain hidden warnings, lessons of life, admonitions and so on clad in the garment of a play upon words or a pun, sometimes more, sometimes less ingenious, as will be seen from the examples in the text.

"Attention ought to be drawn to this, not only because without such knowledge some passages in the *pantun* would remain unintelligible, but also because the *sindir* are so closely interwoven with daily conversation, that a fairly animated colloquy seldom passes without the use of these puns, which are understood everywhere. They season discourse as quotations season ours, and for an intimate chat one ought to know at least some of them. Also for easy intercourse with the *kampong* people they are indispensable, as they are the common property of the *chachah*, the common people, as well as of the highest educated class.

"A few examples may serve as illustrations.

1. Batavia, 1906, 1910, 1911 in the *Tijdschrift voor Indische Taal, Land en Volken Kunde*, Part XLIX, afl. 152, and in *Verhandelingen van het Bataviaasch genootschap van Kunsten en Wetenschappen*, Part LVIII.

"In a native household a new servant is to be engaged. A candidate has offered his services, makes a good impression and is therefore accepted, say, with the following words: '*Tapi hantö salisung gardu, ënya.*' '*Akh, moal,*' 'Oh no!' is the reply. As the first sentence, literally translated, means 'but not a watch-house-mortar (for rice-pounding),' the question arises as to what has actually been said to the man.

"Under *salisung gardu* is to be understood the *sahkokol*, i.e. 'a sounding-board' hanging in the watch house, whereon the hours are struck and wherewith the watchmen also give alarm-signals. Even then it has no meaning here. But the meaning will become clear if one knows that the catch-word or rhyme-word on *sahkokol* is *sakongkol*, i.e. 'go.siping,' and we therefore get the following: *hëntö salisung gardu = hëntö sakahkol = ulah sakongkol*—'no gossip!'

"Not only in the presence of grown-up people are such covert sayings used; they are addressed also to children. A naughty child has repeatedly been bidden to obey, but remains obstinate. At last the mother loses her temper and exclaims angrily: '*Ah, sia mah sok kokök aing mah; mun kitu, mëntak mëntil hiris ngëmbang bédil.*'—'Well, you put your will against mine; if you persist, it will be *mentil hiris ngëmbang bédil.*'

"*Mëntil hiris*¹ means *këpokan*,² and the naughty one is 'made to understand *matak kapok*, in other words, 'It will not be long before you will be *kapok*. i.e. you will come to grief, which will so frighten you that you will not do it again, and then it will be *ngëmbang bédil*,³—*obat*, which means here *totobatan*, 'I shan't do it again.'

"But the *sindir* are by no means always of a moral tendency, and least of all in the allegorical language of courting, wherein they play an important part and often show an unmistakable ingenuity. For example.

(*Puchung* metre).

Jaring panjang aya-na di-parahu

Tö puguh kahayang

Bengkel kawung chumawene

Diyuk nongtung barang tēda hëntö ngönah.

"Which means literally translated.

'A long net is lying in the ship,

Foolish is the desire.

Tapping-peduncle of a virginal arenga-palm,

Whether one sits or stands up, one does not enjoy one's meal.'

1. i.e. the *hiris* (a kind of pulse) is forming the first fruit after flowering.

2. i.e. a very young fruit.

3. i.e. the flowering of a gun.

"These lines, taken literally, form an entirely meaningless combination. The following is the solution.

"*Jering panjang* could be expressed by one word *mayang* 'a drag-net.' Under 'lying in a ship' one should understand 'in the house.' *Mayang* is not used in this, but in 'another of its meanings, i.e. 'the blossom of the betel-palm'—a marriageable maiden.

"The second line contains a question to be rendered as 'follows: would it be too foolish to desire you?

"*Bengkêl kawung chumawene* again is a paraphrase. Instead of *bengkêl*, 'tapping-peduncle of a sugar-palm,' one should take the synonym *jônah*, suggested by the rhyme-word *ngônah*. *Kawung chumawene* means 'a virginal, i.e. not yet tapped *Arenga saccharifera*,' the word *chumawene*, 'to be a virgin,' being a form of *chawene* 'virgin.' Now, as an incarnation of *Nyi Pohuchi Sanghyang Sêri*, the primitive goddess of agriculture, the *kawung*-palm is considered as a female being, who from earliest youth, until the palmwine-tapper marries her when she is grown up, is deemed to go through all stages of development from a little girl to a marriageable maid.¹ *Bengkêl kawung chumawene* therefore means: 'a just budding virgin.'

"The last line does not need further explanation, and it will be clear that the whole is a lover's entreaty.

"However, *sindir* are rarely as intricate as the above. The plainness of the following lampoon on divorced women, leaves nothing to be desired:

"*Anak kuda susurian*
Tikait tali kanchana
Aya rangda sôsorian
Ngarêbut ôsi chalana."²

In the texts edited by Mr. Pleyte *sindir* in versified form are not used as *pantun* are used in a Malay Hikayat, i.e. to form dialogues and so on, but occur apparently mixed up with the blank verse, which have the same metre as the last verse quoted above. The *puchung*-metre of the first *sindir*-verse given above is a four-lined one of the different metres at the Sundanese poet's disposal, already referred to. Whether *sindir*-verses occur also in metres having more than four lines, Mr. Pleyte does not say, though elsewhere he speaks of *sindir n* as 'four-lined love-songs.'

1. Cp. C. Pleyte *Jockang sadap* in *Bijdragen tot Taal-Land en Volkenk. v. Ned. Indie*, 7 volgr. dl V, p. 591.

2. A literal Malay translation would be

Anak kuda dêrbulu têngkok
Têrkait tali kênokana,
Ada janda têsêngum-sêngum
Mêrêbut isi chêlana.

As regards the Dayaks of Borneo, Gomes¹ mentions several kinds of songs often to be heard amongst the people, but he does not give any texts from which one can draw conclusions.

From the Philippines I have been unable so far to obtain any information.

In the Buddhist literature of Siam and Burma Pali verse sometimes comes very near the structure of the *pantun*, as pointed out by Marsden and summed up by Wilkinson—"the first pair of lines should represent a poetic thought with its beauty veiled, whilst the second pair should give the same thought in all its unveiled beauty." Marsden writes:—"The first two lines of the quatrain are figurative, containing sometimes one, but oftener two unconnected images, whilst the latter two are moral, sentimental or amorous and we are led to expect that they should exemplify and constitute the application of the figurative part. They do so in some few instances." "Dhammapada" or "Way of Truth," a collection of Buddhist verses, contains many quatrains in which the first couplet contains a picture, the meaning of which is applied in the second:

*"As into a house, which is badly thatched,
The rain will enter.
Thus into an untrained mind
The craving will enter.*

or

*"As a beautiful flower,
Brilliant of hue but yielding no fragrance,
Thus is the well-spoken word
Fruitless to him, who does not act (accordingly)."*

Without the "as" (*vatha*) and "thus" (*evam*) there would not be much difference between these Pali verses and many a Malay *pantun*.

Pali is a daughter-language of Sanskrit, and in Sanskrit poetry "by far the most frequent and most useful form of verse" is the Sloka.² The Sloka consists of two lines of sixteen syllables, or rather four lines of eight syllables each, only four of which are fixed in quantity, the others being at option long or short.³ Of the Slokas in the Sanskrit Ramayana some in the first two lines have a picture or poetic thought, whose meaning is applied in the second couplet. The following quatrains are translated by Romesh Chandra Dutt in his condensation of the Ramayana, book IX, Canto 9,

*"Raindrops fall upon the lotus,
But unmingling hang apart;
False relations round us gather,
But they blend not heart with heart."*

1. E. H. Gomes, Seventeen years amongst the Sea-Dayaks of Borneo.
2. Ralph J. H. Griffith, The Ramayana of Valmiki, Benares 1895, p. VIII quoting from Wilson's Sanskrit Grammar, p. 436.
3. *ib.*

*' Winter-clouds are big with thunder,
But they yield no freshening rain;
False relations smile and greet us,
But their soothing words are vain."*

*" Bees are tempted by the honey,
But from flower to flower they range;
False relations share our favours
But in secret seek a change.—"*

With these verses Ravan reproaches his brother Bibishan, who had given him advice not much to the Rak-ha-king's liking, but they quaintly resemble *pantuns* wherewith a Malay girl rebukes a faithless lover.

Kalidasa, who lived probably in the fifth century of the Christian era, the greatest of the later Sanskrit poets, has generously interspersed the prose of his dramas with lyric and descriptive stanzas. The following quotations are taken from Arthur W. Ryder's translation of "*Shakuntala*" in "*Everyman's Library*."

Act. IV, 2. King Dushyanta, owing to the curse of the Rishi Durvasas, has entirely forgotten that he had married Shakuntala, and her foster-father, the hermit Kanva, decides to send her to the King's palace. One of his pupils on the dawn of the day of her departure, says:

*" Night-blooming lilies, when the moon is hidden,
Have naught but memories of beauty left;
Hard, hard to bear! Her lot, whom heaven has bidden
To live alone, of love and lover reft!"—*

Act V. When the hermits, who bring Shakuntala to the palace, are received by the king, one of them says:

*" Fruit-laden trees bend down to earth,
The water-pregnant cloud hangs low;
Good men are not puffed by power;
The unselfish are by nature so."*

When Shakuntala reminds him of his former kindness and promises, the king replies:

*" A stream, that eats away the bank,
Grows foul and undermines the tree;
So you would stain your honour, while
You plunge me into misery."*

And when the hermits reproach him, the king reminds them of the verse:—

*" Night blossoms open to the moon,
Day-blossoms to the sun;
A man of honour ever strives
Another's wife to shun."*

The use of verse, especially of some well-known epigrammatical sloka, to illustrate one's words, is of course common in Indian literature and probably in daily conversation, but in the king's reply to Shakuntala, if correctly translated, we have an *ex tempore* improvisation to suit the occasion.

With Sanskrit we are in India, and India of course has greatly influenced the Malay language and literature. "Negëri Këling," the country of the dark people of the Kalingas, mentioned in the Ramayana and Mahabharata as living on the East-coast of the Indian peninsula, would seem to be the source of this influence. Tamil is a Dravidian, non-Aryan language, but has been influenced largely by Sanskrit. The Ramayana, the Mahabharata, the Panchatantra have been translated into Tamil. From the Tamil translation of the Ramayana the Malay *Hikayat Sëri Rama* is derived. Speaking of the different kinds of Tamil poetry, the Abbe Dubois¹ mentions the "Padam," which corresponds to strophe, stanza or couplet. The "Padam" includes not only odes in honour of gods, princes and great personages, but also obscene and amorous ditties, brightly dialogues between gods and goddesses and similar compositions. Dubois² further mentions Slokas or stanzas, and gives translations of a number of "niti-slokas" or moral stanzas, familiar to all educated Hindus. "They are written in Sanskrit-verse, but as this classical language is not understood by many people, each sloka is accompanied by a literal translation in the vulgar tongue. The Hindoos take great delight in introducing these slokas into their ordinary conversation." Many of these slokas, of which Dubois gives a prose-translation, have in their first part a picture or saying, whose moral is given in the last part. For instance.

"When one sees blades of Dharba-grass³ on white-ant-heaps, one can tell at once that snakes are there. So when one sees anybody frequenting the company of wicked men, one may feel sure that he is as wicked as they."

Perhaps Sanskrit scholars can tell us how it came that the word sloka, which appears to have been formerly the name of a metre or stanza, later came to mean an epigram.

The Malays, too, know the word *sëloka*. According to Wilkinson's dictionary it means "rhyme, especially when humorous; ironical or satirical poetry when not in the form of the *pantun*." A *pantun*, according to the same dictionary, is a "quatrain, the first line of which rhymes with the third, and the second with the fourth." Mr. Wilkinson has further laid down the principle of assonance and that of the veiled and unveiled thought referred to above. That the principle of assonance is not always kept, a

1. Abbe J. A. Dubois, *Hindu Manners, Custom and Ceremonies*, 3rd ed., Oxford, 1906, p. 619.

2. Dubois chapter XXII, page 392 et seq. and chapter XXIII, page 474 et seq.

3. The sacred grass, *Poa cynosuroides*, essential in all sacrifices.

glance over any collection of pantuns will show. The veiled and unveiled thought also occurs in many Indian selokas. As regards the rhyme the Malays seem to be rather careless, and a pantun may sometimes have the same rhyme in all four lines:

<i>Masok hutan bawa sēnapang</i>	<i>Ada satu panglima garang</i>
<i>Hēndak bēdil anak bēruang.</i>	<i>Janggut panjang misai bērcha-</i>
<i>Enche' laksana binatang kong-</i>	<i>bang.</i>
<i>kang</i>	<i>Pokok pisang boleh tuan tēbang</i>
<i>Kēpala di-tundok chēlah kang-</i>	<i>Ka-pada sahaya jangan di-cha-</i>
<i>kang.¹</i>	<i>dang.²</i>

Marsden, Crawford and others make no distinction between *pantun* and *sēloka*. J. J. de Hollander, however, remarks that in Malay writings a distinction is made and quotes a passage from the *Hikayat Shah Mardan* or *Indēra Jaya*:—"sēgala dayang pun bērpantun dan bērsēloka." In the *Hikayat Hang Tuah* we are told of Hang Tuah and his friends, when they were in the forbidden park of the Batara of Mēnjapahit:—"maka ia dudok.... bērsēnda, bērnyanyi dan bērpantun dan bērsēloku bērbagai-bagai ragam-nya." The word *pantun* has in the *Hikayat Hang Tuah* a double meaning: it is used several times for such a proverbial saying as *pagar makan padi*, as pointed out by Dr. Winstedt in his preface to "*Pantun Mēlayu*," and it is used also for the quatrain.

In my collection of *pantuns* I find the following quatrains:—

*Sabar sunggoh Raja Kuantan,
Mēngikut pērang dari kuala,
Adinda tuan sa-pantun intan,
Tidak tērnilai yang punya harga.*

*Panah mēmanah Raja Andoman,
Panah lalu ka-sēgara.
Adinda sa-pantun sharbat minuman,
Sa-puluh tahun ta' hilang rasa.*

*Ya Galoh Raden di-pinang,
Tempat raja dari Patani;
Tuan sa-pantun si-pohon pisang,
Kawan-nya banyak kanan dan kiri.*

These three quatrains belong to an incomplete series of *pantuns* of the kind called *Alif-ba-ta*. The series was procured from a Chinese collector and probably hails from Malacca. In these quatrains the word *pantun* or *sa-pantun* is used in place of the *lak-sana* or *sa-umpama* of modern times. Is it possible that the *sēloka*, either with the alternate or the fourfold rhyme, existed long ago and that those quatrains containing a *pantun* or simile in the first two lines have in course of time received the name *pantun* in

* 1. *Pantun Melayu* No. 970.

2. *ib.* No. 1021. Compare further the pantuns in "*Pelandok Jenaka*."

contradistinction to the *sĕloka*, in which the same thought runs through all four lines? The following quatrains would then be called *sĕloka*:

*Anak dara dua sa-pasang,
Pakai baju, pakai kĕrosang,
Sa-biji nanas, sa-biji pisang,
Belum tahu rĕzĕki musang.*¹

*Sudah bĕrtĕmu kaseh sayang,
Dudok tĕrkurong malam siang,
Hingga sa-lapak tiada rĕnggang,
Tulang sĕndi habis bĕrgunchang.*²

*Chakapan pelet orang Pĕtani,
Mari ka-tanjong hĕndak mĕm-
bĕli,*

*Jalan-jalan sa-panjang jalan,
Singgah-mĕnyinggah di-pagar
orang.*

*Bodoh kurang paham hĕrti,
Kambĕli di-kata pĕrmaidani.*³

*Pura-pura mĕnchari ayam,
Ekor mata di-anak orang.*⁴

The verse of the *sĕloka* would be the usual *shaĕr* verse, which in its turn is possibly the old Indian sloka or stanza. A study of such *sĕloka* would probably show that the principle of the fourfold rhyme is not always strictly observed. Whoever has read a Malay *shaĕr*, knows the awful difficulties the Malay poet has to master to get the fourfold rhyme, a difficulty which would make the popular use of such a quatrain rather impossible. When the *pantun* became popular, the double thought in it possibly caused the alternate rhyme, which is much easier to find.

A collection called "Shaĕr Pantun Sĕloka" has been published in Singapore by the Malay press. It contains a number of series of *pantun bĕrkait*, but I have failed to find any essential difference between the quatrains of this collection and the usual *pantun*.

Something which seems akin to the Malay *pantun* is to be found in the Chinese language. When trying to read the "Kin Ku K'i Kuan," "Stories of old and new times," the well-known collection of 40 Chinese novels dating from the Ming dynasty (1368—1644 A.D.) I came across some Chinese verses interspersed in the text which even to my imperfect knowledge of Chinese seemed to be on the lines of a *pantun*. Grube in his "Geschichte der Chinesischen Literatur" quotes from the preface of V. von Strauss's translation of the "Shi-King," "The Book of Odes," one of the four classical books of Chinese literature, as follows:

"The Chinese editors always indicate at the end of each stanza whether it contains a direct statement (*fu*) a simile "or comparison (*pi*) or a metaphor or symbolical saying (*hsing*). Only the latter is something peculiar, as in each stanza, before coming to the real object of the poem, in one or two lines a peculiar natural phenomenon, a well-known event or occurrence is mentioned as an introduction not unlike a clever arabesque in order to prepare reflection, sensa-

1. "Pantun Melayu," No. 8.

2. *ib.* No. 951.

3. *ib.* No. 975.

4. *ib.* No. 955.

"tion and the state of mind for that which follows. The symbol is either the same in all stanzas, or a new one is taken each time. Thus we find in the symbolical introduction of different poems absolutely independent from each other the same picture or metaphor."

The few examples given below are taken from the few pretty, but rather free translations in the little volume, "The Book of Odes" in the "Wisdom of the East" Series. The number refers to the usual Chinese edition in four volumes, from which the indications at the end of each stanza also have been taken. For two of them the writer has added the Chinese text in modern Mandarin dialect, which however does not always correspond with the sound of the words at the time the poems were written.

(I, III, 2). Brave Thoughts.

Chinese text.

*Green is the upper robe,
Green with a yellow lining;
My sorrow none can probe,
Nor can I cease repining.*

Yüan² hsi¹ i¹ hsi¹
Yüan² i¹ huang² li³
Hsin¹ chih¹ yu¹ i³
He² wei² ch'i² i³.

(Styled pi).

*Green is the upper robe,
The lower garb is yellow;
My sorrow none can probe,
Nor any season mellow.*

Yüan² hsi¹ i¹ hsi¹ (same as
in first stanza)
Yüan² i¹ huang² shang¹
Hsin¹ chih¹ yu¹ i³ (same as
in first stanza)
He² wei² ch'i² wang².

(Styled pi).

*The silk was of emerald dye;
Ah, this was all your doing;
But I dream of an age gone by,
To keep my heart from ruing.*

Yüan² hsi¹ szü¹ hsi¹
Nü³ so³ chih⁴ hsi¹
Wo³ szü¹ ku³ jên²
Pi⁴ wu² yu² hsi¹.

(Styled pi).

*Fine linen or coarse, 'tis cold.
But all I have to dress me;
So I think of men of old*

Ch'ih¹ hsi¹ hsi⁴ hsi¹
Ch'i¹ ch'i² i³ feng¹
Wo³ szü¹ ku³ jên² (same as
in third stanza)

And find brave thoughts possess me.
(Styled pi).

Shih²⁻⁴ hwo⁴ wo³ hsin⁴.

(III, VII, 5). The Slanderers.

Chinese text.

*The blue flies buzz upon the wing,
From fence to fence they wander;
O happy king! O courteous king!
Give heed to no man's slander!*

Ying² ying² ch'ing¹ ying²
Chih³ yü² fan²
Cr¹⁻³ ti⁴ chün¹ yü²
Wu² hsin⁴ t'san² yüan².

(Styled fu).

The noisy blue flies rumble round,

Ying² ying² ch'ing¹ ying¹
(same as in first stanza)

*Upon the gumtrees lighting;
A tongue of evil has no bound
And sets the realm a-fighting.*

*Chih³ yü² chi⁴
T'san¹ jên² wang³ chi²⁻⁴
'hiao¹ luan⁴ szü⁴ kuo²*

(Styled *hsing*).

*The clumsy blue flies buzzing round
Upon the hazels blunder;
O cursed tongue that knows no bound
And sets us two asunder.*

*Ying² ying² ch'ing¹ ying²
(same as in first stanza)
Chih³ yü² chên¹
T'san¹ jên² wang³ chi²⁻⁴
Kou⁴ wo³ er⁴ jên².*

(same as in second stanza).

(Styled *hsing*).

A wife's Memories. (I, V, 5).

*With taper rod of tall bamboo
You angle in the K'e;
Do I not go by dream to you,
Who cannot come to me?*

(Styled *fu*).

*To left the T'seuen waters roam,
The K'e flows to the right;
Ah! never gleams a newer home
Like that lost home to sight.*

(Styled *fu*).

*Leftward the T'seuen stream bequiles,
And rightward calls the K'e;
Return, o light of happy smiles
And girdle-gems, to me!*

(Styled *fu*).

*The oars of cedar rise and fall
From boats of yellow pine;
Would I might roam the banks, where all
The ghosts of girlhood shine!*

(Styled *fu*).

Happy in Haou. (III, VII, 7).

*Fishes are there by the score, I trow,
Their large heads sleepily showing;
The king is here, in the city of Haou,
At ease with the wine-cup's flowing.*

(Styled *hsing*).

*Fishes are there in the weed enow, (in the Chinese text
same as in first stanza)
Their long tails lazily swaying;
The king is here, in the city of Haou,
Drinking, dreaming, delaying.*

(Styled *hsing*).

*The fish lie under the willow-bough (in the Chinese text
same as in first stanza)
That leans and shadows the rushes;
The king is here in the city of Haou,
At peace, and the wine-cup flushes.*

(Styled *hsing*).

May-time. (I, II, 12).

*Deep in the grass there lies a dead gazelle;
The tall white grass enwraps her where she fell.—
With sweet thought natural to spring
A pretty girl goes wandering
With lover that would lead astray.*

(Styled *hsing*).

*The little dwarf oak hides a leafy dell;
Far in the wilds there lies a dead gazelle:
The tall, white grass enwraps her where she fell.—
And beauty, like a gem, does fling
Bright radiance through the blinds of spring.*

(Styled *hsing*).

*"Ah, gently! do not disarray
My kerchief! Gently, pray!
Nor make the watch-dog bark
Under my lattice dark!"*

(Styled *fu*).

Even these very free translations will show the *pantun*-like style of some of the oldest Chinese poems.

In the preface to the "Lute of Jade," a selection from later classical Chinese poets in the same "Wisdom of the East" series, L. Cranmer-Byng says: "Concentration and suggestion are the two essentials of Chinese poetry. There is neither Iliad nor Odyssey to be found in the libraries of the Chinese; indeed, a favourite feature of their verse is the "stop short," a poem containing only four lines, concerning which another critic has explained that only the words stop, whilst the sense goes on. But what a world of meaning is to be found between four lines! Often a door is opened, a curtain is drawn aside in the halls of romance, where the reader may roam at will." As regards the rhyme, the same author says: "in the four-line or stop-short poem . . . the first line rhymes with the second and fourth, curiously recalling the Rubayat-form of the Persian poets." It is difficult to find one of these stop-short poems from the translations given in the "Lute of Jade," as probably the English version does not follow the Chinese metre. There is one from Po Chü I (A.D. 772—846):

1. The stanza of the Chinese original have 4, 4, and 3 lines respectively

A Palace Story.

"A network handkerchief contains no tear.
 'Tis dawn at court, ere wine and music sate.
 The rich red crops no aftermath await.
 Rest on a screen, and you will fall, I fear."—

In the above-named "Kin Ku K'i Kuan," verses similar to the epigrammatical *sēloka* or to the *pantun* are used much in the same way as similar verses are used in Indian literature, at the beginning, in the middle and at the end. Perhaps Chinese scholars can tell us whether there are quatrains of a similar kind used in daily life as the *pantun* is used in Malaya. Chinese literature is a bad collecting-ground for popular ditties, on which university literates look down with even more contempt than they already do on the popular novel, the "Hsiao Shuo."

It seems rather far out of the way to look for something akin to the Malay *pantun* in Chinese poetry, but between the two languages there is a certain affinity in idiom. Common to both languages are the "classifiers," certain words used in addition to the numeral, different according to the class of objects referred to, as in Malay *ekor*, 'tail' for animals, *buah* 'fruit,' for countries, houses, ships and so on. No such classifiers are to be found in the Javanese or Sundanese language. In one of his lectures on "Language and Letters" Dr. Graebner drew a comparison between Arabic as a most subjective and Chinese as a most objective language. The Chinese, he said amongst other things, in expressing himself, shows us a picture, a sort of cinematographic film, which he has before his mind's eye and which he describes and explains to us by degrees. Hence the usual co-ordination instead of our subordination of sentences, hence the frequent use of the possessive and of the demonstrative pronoun, and hence possibly the use of the classifiers. All these characteristics are to be found also more or less in the Malay idiom. The co-ordination of sentences is much more frequent than subordination, the possessive suffix *-nya* is to be found in nearly every sentence, and the demonstrative pronouns *ini*, *itu* and *pun* are used much more frequently than in any European language, and much in the same way as in Chinese.

Is it possible that to Chinese influence may be attributed the fact that the connection between the first and last couplet in the Malay *pantun* is often so very loose?

In the Indian *sloka*, to judge from translations, the rule that the picture given in the first lines must absolutely agree with the thought conveyed in the second lines, is always strictly observed. In all Indian verses the picture is quite clear; it is always an obvious illustration of the thought which follows and not merely as in the Malay *pantun* an impressionist sketch, whose connection with the following lines a European mind often fails to understand. In Chinese poetry we have just this very loose-

ness of connection between the picture and the thought it illustrates. A literal translation of course would make this point much clearer than the verses quoted above, but even some of these, translated into Malay, would not be much out of the way in a Pantun. In the noisy blue-bottles and the slanderers, in the lazy fishes and the king feasting at Haou we have pictures and thoughts, which a European mind can as well connect as the picture of the creeper that winds round the tree and the thought of the snake that coils round the flower in the pantuns of the "Guarded Rose."¹ But in "May-time" the first lines are of that class which, to use Dr. Winstedt's expression, "sound inane enough on a gramophone-record, but may well have given the spirit of the hour and place of its original context." Parallels for the green upper robe and yellow lower robe could be found in many *pantun*.

The points of resemblance between many Chinese verses and Malay *pantun* appear to be so numerous and so close that the thought of fortuitous coincidence seems hardly satisfactory. Perhaps Chinese scholars could help us to fathom the meaning of the introductory lines in many a Chinese verse and their inner connection with the following lines in the same way as Dr. Winstedt has done for the *pantun* in his preface to "Pantun Melayu."

I once went through my collection of *pantun* with a clever Malay munshi from Sumatra and learned something about the meaning of the second lines, but very little of their connection with the first pair. The munshi indeed declared the first couplets to be meaningless, and observing my apparent incredulity, pointed triumphantly to the passage in the "Pelayaran Abdullah:"

"Ada pun jalan segala pantun itu empat-empat mistar adanya; bermula mistar yang di-atas dua itu, tiada erti-nya, melainkan ia-itu menjadi pasang-nya sahaja; maka yang dua mistar di-bawah, itu-lah yang ada bererti, ada-nya."

Mĕnjadi pasang-nya the munshi declared to mean that they were only there "to carry the rhyme." Undoubtedly there is a grain of truth in Abdullah's statement, at least as far as modern Malays and *pantuns* are concerned. A glance over the quatrains of "Pantun Melayu" will show that the principle of assonance is frequently dispensed with, and as regards the "veiled and unveiled thought" I would venture to add the "compulsion of rhyme" to the long list of explanations enumerated by Dr. Winstedt to solve the difficulties of the European student when he meets with an apparently meaningless first pair of lines.

"Out of a big repertory of old-world verses the singer chooses one suitable for the purpose or possibly invents a new verse or changes and adapts an old." "Favourite quatrains have undergone a little Odyssey of adventure up and down the Malay Archipelago."² The real meaning of a *pantun* lies in the second coup-

1. Pantun Melayu, Nos. 306-313.

2. From the preface to "Pantun Melayu."

let: what the singer wants to say, he expresses in the second couplet, and apparently the second couplet lingers in the memory of the Malay much stronger than the first. When hearing extemporised *pantun*, I have often noticed that the singer has fixed in his mind only the last couplet and improvises the first simply to get the rhyme, without paying any attention to principles of assonance and veiled thought. If he finds in his momentary surroundings or occupation a motive for the rhyme he needs, he will seize it at once. Again any adept in *pantun* has at his command a large number of rhyme-equivalents which will enable him to construct at a moment's notice the first couplet that gives the rhyme for the second, and even to do it in a neat style, giving a nice little picture, which however has hardly any inner connection with the thought expressed in the second couplet. Sometimes he simply alters a stock-phrase just to get at the rhyme. The choice of fruits put by the extemporiser into a *puan* or *dulang* very often seems to be determined solely by the rhyme, and so too the use of stock-phrases *dari....bēlayar ka...., orang....pulang ka....; kalau tuan pērgi ka...., charikan sahaya.*

Below are given some quatrains taken from *Pantun Mēlayu*, *Pantun Dondang Sayang* and my own collection, in which the third and fourth lines are quite or very nearly identical, whilst the first two lines differ more or less. Sometimes the rhyme-words still linger in the singer's memory, and sometimes the principle of assonance makes itself felt vaguely. These examples may serve to illustrate the working of the Malay *pantun*-singer. Experts perhaps will be able to discriminate between the work of the poet and that of the plagiarist.

<i>Kumbang terbang kēliling kota,</i>	<i>Zamzam tēlaga adu di-Mēkah,</i>
<i>Makan rukam sa-pokok habis;</i>	<i>Minum orang anak si-Ali;</i>
<i>Adinda jangan bimbang ta' suka,</i>	<i>Adinda jangan bimbang ta' suka,</i>
<i>Ambil kēris tikam sa-kali.</i>	<i>Ambil kēris tikam sa-kali.</i>

<i>Yu puteh si-lumba-lumba,</i>	<i>Jin bēsar turun bērtapa,</i>
<i>Lalu bērnang ka-Tanjong Jati.</i>	<i>Makan sa-hari sa-gantang padi;</i>
<i>Anak sungi kalau ku-tuba,</i>	<i>Anak sungai kalau ku-tuba,</i>
<i>Lotong siamang jatoh mati.</i>	<i>Lotong siamang jatoh mati.</i>

<i>Baik-baik tuan mēngikat;</i>	<i>Ada suatu Haji Tambi,</i>
<i>Anak balam terbang tinggi;</i>	<i>Bērjumpa kolam turun mandi;</i>
<i>Baik-baik tuan mēnyurat,</i>	<i>Baik-baik tuan mēnulis</i>
<i>Kalam jangan buat pēnyugi.</i>	<i>Kalam jangan buat pēnyugi.</i>

*Layang-layang terbang melayang,
Sayang s'rai dalam ch'rana;
Bidadari turun melayang
Nantikan sore bulan p'nama.*

*T'etak masyang s'eludang mayang,
Emas urai di-dalam ch'rana;
Bidadari turun melayang,
Nantikan sore bulan p'nama.*

*Mayang t'end'ism di-pusat tasek.
Pusat tasek tumbuh ch'ndawan;
Bintang m'rindu ch'nd'rawaseh,
Ch'nd'rawaseh burung di-awan.*

*S'ri Rama raja di-Tasek,
Sayang tasek tumbuh ch'ndawan;
Bintang m'rindu ch'nd'rawaseh,
Ch'nd'rawaseh burung di-awan.*

*Zaman tatkala raja di-Kelang,
Teli di-ukur d'ngan g'lang;
Budi s'dikit bila-kah hilang,
Sudah s'rap di-dalam tulang.*

*Kalau tuan p'rgi ka-G'lang,
P'scn sahaya limau l'lang;
Budi s'dikit bila-kah hilang,
Sudah s'rap di-dalam tulang.*

*Ramai b'rkahwin raja Kelang,
Pakai dokoh d'ngan g'lang;
Budi baik mana 'nak hilang,
M's'ra sampai ka-dalam tulang.*

*Kalau k'erja raja di-Kelang,
Pakai k'abaya sama g'lang;
Budi s'dikit bila-kah hilang,
B'rs'rap sampai ka-dalam tulang.*

*Pagar sahaya pugur k'ling,
Pokok kara-kara tiada mula;
Chaching b'rtapa lautan k'ring,
Bila-kah boleh m'njadi naga?*

*Ada suatu P'nglima Gading.
Masok ka-hulu h'ndak m'njaga;
Chaching b'rtapa lautan k'ring,
Bila-kah boleh m'njadi naga?*

*Dari p'auh singgah p'matang,
Singgah m'rapat papan k'emudi;
Dari jauh sahaya datang,
Karna tuan baik budi.*

*B'rapa jauh tanah Palembang,
Burong t'rbang pulang hari;
Dari jauh sahaya datang,
D'ngarkan tuan baik budi.*

*Acheh b'rp'rang ka-Bangka Hulu
S'ri Paduka p'nglima-nya;
Diam tuan sabar dahulu,
Ada masa k'tika-nya.*

*Si Langsat anjing p'mburu,
Rusa sa-kawan di-adang-nya;
Diam tuan sabar dahulu
Ada masa k'tika-nya.*

*Buah bachang sa-tangkai l'bat,
M'ri taroh di-dalam g'dong;
Dua di-pancing, satu ta' dapat
Baik b'raleh ka-t'empat yang lain.*

*Putek machang sa-tangkai l'bat,
Enche'Salleh b'rk'dai kain;
Dua di-pancing, satu ta' dapat
Ikan b'raleh di-t'empat lain.*

*Pinjamkan sahaya si-pisau raut,
H'ndak m'raut bing kai tudong;
Gila apa ikan di-laut,
M'lihat umpan di-atas gunong.*

*Pisau wali buat p'raut,
Chamcha j'atoh patah b'rd'ngong;
Gila latah ikan di-laut
M'lihat umpan di-atas gunong.*

Harap harap kelapa puan,
Tidak puan kelapa Bali;
Harap hati ka-pada nan tuan,
Tidak tuan, siapa lagi?

Puan kelapa puan,
Ketiga dengan kelapa Bali;
Harap hati ka-pada tuan,
Tidak tuan, siapa lagi?

Limau manis di-tēpi pērigi,
Lēbat buah di-hujung dahan;
Harimau garang, kuku-nya bēsi,
Di-berak tiong mati bēragan.

Yang mana sērang mana kēlasi?
Mana satu jadi juragan?
Harimau garang, kuku-nya bēsi,
Di-berak tiong mati bēragan.

Ada suatu anak kēlasi,
Baharu sēkarang mēnjadi juragan;
Harimau garang, kuku-nya bēsi,
Di-berak tiong mati bēragan.

Limau purut limau lēlang,
Masak sa-biji di-pangkal Rama;
Harimau mati tinggalkan bēlang,
Manusia mati tinggalkan nama.

Anak Mēlayu pakai sēlendang,
Singgah pētek buah dēlima;
Harimau mati tinggalkan bēlang,
Orang mati tinggalkan nama.

Anak babi dari kuala,
Mati sa-ekor mabok chēndawan;
Hati hanchor bērtambah gondah,
Dalām bērahi pada-mu tuan.

Thelasa hari yang kēdua,
Tērbang tiong dua sa-kawan;
Hati hanchor bērtambah gondah,
Dalām bērahi pada-mu tuan.

Bēlah buloh sangkaran balam,
Bēlah di-rumah Tok Pēnghulu;
Allah bēlum jadikan alam,
Kita sudah bērjanji dahulu.

Bēlah-bēlum bunyi malam,
Bunyi di-atas bumbong Pēng-
hulu;
Allah bēlum jadikan alam,
Sahaya sudah bērjanji dahulu.

Datok Japar anak Tēmēnggong,
Lari masok di-hujung lorong;
Kalau lapar makankan jagong,
Jagong jangan katakan rēbong.

Enche' Japar mudek mēnyabong,
Ayam kēlabu di-sangka tēdong;
Kalau lapar makankan jagong,
Bambu jangan di-sangka rēbong.

Sērindit di-gonggong lang,
Jatoh ka-longgok Indragiri,
Sudah tērsēlit di-kampong orang,
Baik-baik mēmbawa diri.

Pisang kēlat di-gonggong lang,
Jatoh ka-laut Indragiri;
Abang tērsēlit di-nēgēri orang,
Baik-baik mēmbawa diri.

Jatoh ka-longgok ka-Indragiri,
Bēli gula satu tēmpayan,
Jikalau pandai mēmbawa diri,
Banyak orang bēlas kasehan.¹

Kalau tuan pērgi ka-Deli,
Bawa gula satu tēmpayan;
Kalau pandai mēmbawa diri,
Di-mana jatoh orang kasehan.

1. This and the quatrain just above are out of a series of 5 pantun ber-kait-kait.

<i>Buloh p̄rindu di-atas atap,</i>	<i>S̄mbilu di-atas atap,</i>
<i>H̄ndak di-buat bambu joran;</i>	<i>Jatoh ka-bawah sahaya t̄kankan;</i>
<i>Kalau rindu jangan m̄ratap,</i>	<i>Kalau rindu jangan m̄ratap,</i>
<i>Siapa lalu baik di-p̄san.</i>	<i>Lalu orang sahaya p̄sankan.</i>

*Buloh p̄rindu di-atas atap,
Anak itek ampas-ampaskan;
Jikalau rindu jangan m̄ratap,
Siapa lalu tuan p̄sankan.*

<i>Anjing m̄nyalak di-t̄pi kota,</i>	<i>Simpai rotan dari Malaka,</i>
<i>H̄ndak di-adang rusa sa-kawan;</i>	<i>Buat p̄mikul rusa b̄rjalan;</i>
<i>Kalau sampai niat-nya kita,</i>	<i>Jikalau sampai niat-nya kita,</i>
<i>Ku-bayar kaul puasa sa-bulan.</i>	<i>Bayar kaul puasa sa-bulan.</i>

<i>Ada suatu kapal Surati,</i>	<i>Anak s̄pat di-dalam padi,</i>
<i>Mati tukang, mati k̄lasi;</i>	<i>Anak s̄luang m̄lompat tinggi;</i>
<i>Kalau ta' dapat bagai di-hati,</i>	<i>Kalau ta' dapat bagai di-hati,</i>
<i>Biar-lah bujang sampai ka-mati.</i>	<i>Biar-lah bujang sampai ka-mati.</i>

<i>K̄nchang-k̄nchang angin di-atas,</i>	<i>Di-t̄nun kain d̄ngan k̄rtas,</i>
<i>H̄ndak m̄mutus tali k̄chapi;</i>	<i>B̄rmacham-macham warna ragi;</i>
<i>Jong lilin, layar k̄rtas,</i>	<i>P̄rahu lilin, layar k̄rtas,</i>
<i>H̄ndak m̄lalu lautan api.</i>	<i>B̄rani ku-langgar lautan api.</i>

<i>Buah b̄ludu buah k̄ledang,</i>	<i>Ka-hulu m̄mb̄li arang,</i>
<i>B̄sar greja di-atas bukit;</i>	<i>Greja di-atas bukit;</i>
<i>Lain dahulu, lain s̄karang,</i>	<i>Lain dahulu, lain s̄karang,</i>
<i>Jauh beda, bukan s̄dikit.</i>	<i>Jauh beda, bukan s̄dikit.</i>

*Lain hulu, lain parang,
Sayang greja di-atas bukit;
Lain dahulu, lain s̄karang,
Jauh beda, bukan s̄dikit.*

<i>Limau manis di-k̄bun raja,</i>	<i>Limau manis chondong ka-paya,</i>
<i>Hilang di-bungkus puncha kain;</i>	<i>Boleh buat sampaian kain;</i>
<i>Mulut manis di-d̄pan sahaja,</i>	<i>Mulut manis ka-pada sahaya,</i>
<i>Hati sudah ka-pada lain.</i>	<i>Hati kaseh pada yang lain.</i>

*Rumput manis di-dalam paya,
Padi linat di-atas p̄rmatang;
Mulut manis ka-pada sahaya,
Hati-nya bulat ka-b̄lakang.*

*Rioh-rëndah potong kërbaui,
Kasi makan orang yang ramai;
Orang diam ku-sangka bodoh,
Ombak-nya bësar mënutup sungai.*

*Masak nasi, potong kërbaui,
Hëndak di-jamu raja Bërunai;
Orang diam di-kata bodoh,
Sa-bagai ombak tutup sungai.*

*Adu gula, adu-nya sëmüt,
Bagai kuching mamah tulang;
Orang kaya apa di-sëbut?
Kita miskin bërbanting tulang.*

*Jikalau tuan përgi ka-Lukut,
Singgah di-bëting di-Kuala Kë-
lang;
Orang kaya jangan di-ikut
Kita miskin mëmbanting tulang.*

*Apa mëlintang rumah Che' Judi,
Tampak dari pangkalan raja?
Puas sudah mêngambur budi,
Sahaya miskin, di-buang sahaja.*

*Dari mana tanam lënggundi?
Lënggundi tanam di-pintu raja;
Chuma sahaya mënabur budi,
Budi di-tabur tërbuang sahaja.*

*Anak balam di-atas panggong,
Kalau tuan ka-Bandar Rëkan;
Rindu sahaya tidak tërtanggong,
Sakalian burong sahaya bërpesan.*

*Tëtak nibong buat panggong.
Hanyut tëmpurong di-Kuala Rë-
kan;
Rindu sahaya tidak tërtanggong,
Burong tërbang sahaya bërpesan.*

*Makan tëbu di-luar sërambi,
Anak tëkukur atas bumbongan;
Sa-hari bërtemu, sa-hari mati,
Sa-ribu shukur atas junjongan.*

*Tanglong tërgantong di-Tanjong
Jati,
Sayang tëkukur atas bumbongan;
Sa-hari bërtemu, sa-hari mati,
Sa-ribu shukur atas junjongan.*

*" Bismillah " itu mula di-karang,
Pantun anak Jawa Sëmarang.
Sahaya umpama kain yang jarang,
Jual tidak di-bëli orang.*

*Gulama ikan di-karang,
Di-kail oleh anak Sëmarang;
Sahaya umpama kain yang jarang,
Takut di-jual ta' bëli orang.*

*Tanjong Katong ayer-nya biru,
Tëmpat bërlaboh kochi Malaka;
Sëdang sa-kampung lagi ku-rindu,
Inikan pula jauh di-mata.*

*Tanjong Katong ayer-nya biru,
Boleh buat chërmin mata;
Sëdang sa-kampung lagi di-rindu,
Ini pula jauh di-mata.*

*Anak kambing putëra dëwi,
Mëngulam puchok akar bëludu;
Sireh raja, pinang mëntëri,
Yang mana patut di-makan da-
hulu.*

*Kambing ini kambing biri-biri,
Hëndak makan puchok chër-
chok;
Sireh raja, pinang mëntëri,
Yang mana patut makan dahulu.*

*Kambing sahaya sêdang lari,
Makan tarok kacang bulu;
Sireh raja, pinang mēntēri,
Yang mana sahaya jawat dukulu.*

<i>Ayam dēnak dari Pētani, Di-sēmbah ka-Dato' Raja Muda; Sireh di-sēmat dēngan nyanyi, Pinang di-bēlah dēngan suara.</i>	<i>Bērkokok ayam di-Banting, Bērsahut ayam di-kuada; Sireh di-tēbok dēngan gunting, Pinang di-bēlah dēngan suara.</i>
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<i>Burong bērtēriak di-atas kēramat, Suara bunyi bērdayu-dayu; Tanda ini dunia kiāmat, Tinggi rumput dari-nya kayu.</i>	<i>Mēmpēlam tumbuh tēpi kēramat, Di-tanam oleh anak Mēlayu; Tanda dunia hēndak kiāmat, Tinggi rumput dari kayu.</i>
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<i>Pinjam kapak pinjam bēliong, Hēndak mēnēbang hauar bērduri; Tuan di-atas kēmunchak payong, Sahaya di-bawah mēnjunjong duli.</i>	<i>Timpa kapak dēngan bēliong, Tētak mari pauh bērduri; Tuan di-atas kēmunchak payong, Sahaya di-bawah mēnjunjong duli.</i>
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<i>Ikan mēnghēmpas di-atas dayong, Sisek-nya jatoh ka-atas kēmudi; Tuan di-atas kēmunchak payong, Sahaya di-bawah mēnjunjong duli.</i>	<i>Ada sa-ekor burong puchong, Leher panjang, kaki-nya kudong; Tuan sa-umpama kēmunchak pa- yong, Sahaya di-bawah tumpang mē- lindung.</i>
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<i>Punai jantan tērbang sa-kawan, Sangka tidak kēmbali lagi; Tuan sa-umpama koin kapan, Hanchur tidak bērganti lagi. Tērēngganu bērkota papan, Dudok di-atas tuan putēri; Tuan sa-umpama kain kapan, Hanchur tidak bērganti lagi.</i>	<i>Punai jantan tērbang sa-kawan, Entah tidak kēmbali lagi; Tuan luksana koin kapan, Entah tidak bērganti lagi. Babi bērmmain di-tērang bulan, Singgah bērkubang di-rumpun buloh; Tuan sa-umpama kain kapan, Hanchur luloh lēkat di-tuboh.</i>
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*Sēmbilan-bēlas hari rējang-nya halipan,
Halipan bēranak di-dalam padi;
Tuan sa-umpama si-kain kapan,
Burok tidak dapat di-ganti.*

<i>Laksamana mudek bērgēndang, Baju zirah tinggal di-bukit; Tuan laksana timun dēndang, Di-luar merah, di-dalam-nya pahit.</i>	<i>Kalau tuan pērgi ka-bēndang, Baju merah baharu di-jahit; Tuan laksana timun dēndang, Di-luar merah, di-dalam pahit.</i>
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Kalau tuan mēmbēli limau,
 Mari taroh di-dalam gēndong;
 Tuan mēmakai kulit harimau,
 Bagi tērkejut kambing di-kam-
 pong.

Nangka bulat di-sangka limau,
 Sayang sa-biji di-pētek kang-
 kong;
 Tuan pakai kulit harimau,
 Hēndak gērētak rusa sa-kampong.

Si-rangkak di-atas bukit,
 Patah sompek tulang dada-nya;
 Tuan tahu bērhati sakit,
 Tibā di-orang apa rasa-nya?

Sayang durian di-atas bukit,
 Mari di-bēlah ambil pangsa-nya;
 Tuan tahu bērhati sakit,
 Kata orang apa rasa-nya?

Hiris dahan tēpi surau,
 Tēmpat sēmbahyang dato' pēng-
 hulu;
 Tujoh musim timpa kēmarau,
 Baik di-tolong hujan di-hulu.

Sumpit mari si-barau-barau,
 Masok di-hutan mudēk ka-hulu;
 Tujoh musim timpa kēmarau,
 Baik di-tolong hujan di-hulu.

Harimau sa-ekor dari jambatan,
 Utusan anak raja Surati;
 Tuan di-pandang tidak kēlihatan,
 Gondah gulana di-dalam hati.

Anak harimau dari Bēntan,
 Kēna panah raja Surati;
 Tuan di-pandang tidak kēlihatan,
 Gondah gulana di-dalam hati.

Kain sulēra bērkabong-kabong,
 Pakaiān anak raja maulana;
 Pasang jērat di-ujong tanjong,
 Mēngkarong lalu, chichak tēr-kēna.

Asam kēlat buah tanjong,
 Pērahu-pērahu anak China;
 Pasang jērat di-ujong tanjong,
 Chichak lalu bēngkarong kēna.

Kalau tidak karna kunchi,
 Papan pēti sahaya bēlahkan;
 Kalau tidak karna mati,
 Bēlah dada sahaya tunjokkan.

Anak lang di-kayu jati,
 Turun ka-pantai mēnyambar
 ikan;
 Kalau tidak karna mati,
 Di-bēlah dada sahaya tunjokkan.

Anak bērok bēsar lēngan,
 Masok ka-bēndang makan padi;
 Kalau kaseh alang-alangan,
 Biar ta'usah sa-kali-kali.

Chēndērawasēh burong kēyangan,
 Singgah hinggap di-pauh janggi;
 Kalau kaseh alang-alangan
 Baik ta'usah sa-kali-kali.

Itek bēlibis di-Lautan China,
 Mēngirai bulu jantan bētina;
 Chantek mējlis bērtambah warna,
 Sa-bagai jahitan sulaman China.

Apa tērlintang laut-nya tēngah?
 Sisek-nya ijau naga bētina;
 Chantek mējlis bērtambah warna,
 Sa-bagai jahitan sulaman China.

Rumah bēsar bērkisi-kisi,
 Bēlanda mabok dua tiga;
 Chakap jangan di-habisi,
 Bēsar rambut di-tinggal juga.

Ada suatu orang Habshi,
 Bēlanda mabok dua sa-rupa;
 Chakap jangan tuan habisi,
 Sa-hēlai rambut tinggalkan juga.

<i>Orang bërlayar Lautan Ambon,</i>	<i>Dari Gangsa përgi ka-Kubong,</i>
<i>Patah tiang patah këmudi;</i>	<i>Singgah ka-Tualang mërëntang</i>
<i>Putus bënang boleh di-sambong,</i>	<i>tali;</i>
<i>Patah arang sudah sa-kali.</i>	<i>Putus bënang boleh di-sambong,</i>
	<i>Patah arang putus sa-kali.</i>

<i>Përahu lanchang dari Pëtani,</i>	<i>Dari sana përgi ka-sini,</i>
<i>Naik ka-darat bëli kain;</i>	<i>Mesok ka-dalam turun kain;</i>
<i>Buah machang sa-rupa kuini,</i>	<i>Bachang jungan di-sangka kuini,</i>
<i>Rupa-nya sama, rasa-nya lain.</i>	<i>Kulit-nya sama, rasa-nya lain.</i>

It would be interesting to have a Malay poet's view on this point; but something may perhaps be inferred from the discrepancy between the *pantuns* of a Malay Hikayat and those contained in its metrical version, the *Shaër*. A "Hikayat Chëndawan Puteh" was published in Singapore in 1328 (1909 A.D.) and a "Shaër Chëndawan Puteh" in 1331 (1912 A.D.). The date of the latter in the writer's copy is blurred and it may be 1321, but in any case the *Shaër* must be a later production, as many facts and episodes of the Hikayat are missing, and towards the end the poet, apparently weary of his task, is progressing by leaps and bounds, which makes the *Shaër* fairly unintelligible without the knowledge of the *Hikayat*. Many of the *pantun* of the *Hikayat* have been taken over into the *Shaër*, but the poet has altered them according to his taste. A few quatrains will show how he did it.

Hikayat Chëndawan Puteh.

Padi di-sawah pëtek tangkai-nya,
Orang Fëringgi jadi këlana;
Tuan di-bawah patek bërtanya,
Sëkarang përgi akan ka-mana?

Orang Fëringgi jadi këlana,
Mënchhari landak sa-kawan lima;
Sëkarang përgi akan ka-mana?
Patek nun hëndak bërtanya nama.
Mënchhari landak ka-kawan lima,
Di-makan chëndawan di-pohon
uni;
Patek nan hëndak bërtanya nama,
Siapa pula tuanku ini?

Shaër Chëndawan Puteh.

Padi di-sawah pëtek tangkai-nya,
Orang Fëringgi mëlanggap
China;
Tuan di-bawah patek bërtanya,
Sëkarang përgi hëndak ka-mana?

Orang Fëringgi mëlanggap China,
Bërapa banyak mati pënglima;
Sëkarang tuan përgi ka-mana?
Kami nan hëndak bërtanya nama.
Bërapa banyak mati pënglima,
Di-bantu oleh sëgala Sërani;
Kami nan hëndak bërtanya nama,
Anak siapa tuanku ini?

Rajawali raja pëрман,
Singgah mëmanah burong këdidi;
Tinggal-lah balai, tinggal-lah la-
man,
Tinggal pëngkalan, tëmpat ku-
mandi.

Mërak mëngigal di-dalam taman,
Mati di-patok ular-nya lidi;
Tinggal mahligai kampong hala-
man,
Bësërta kolam, tëmpat-ku mandi.

*Singgah mēmanah burung kēdidi,
Tērbanghinggapi di-pohon raman;
Tinggal pēngkalan tēmpat ku-
mandi,
Ēntah-kan balek akhir-al-zaman.*

*Tērbanghinggapi di-pohon raman,
Di-sambar paksi burung dewata;
Ēntah-kan balek akhir-al-zaman,
Sudah-lah nasib pērtēmuan kita.*

*Orang Daik bērmāin judi.
Awan di-mega jadi tudong-nya;
Memang ta' baik orang pēndēngki,
Akhir sēndiri juga mēnanggong-
nya.*

*Awan di-mega jadi tudong-nya,
Sarang pipit di-dalam nēgēri;
Sēndiri juga yang mēnanggong-
nya,*

*Hēndak-lah ingat kēmudian hari.
Hēndak makan tidak bērikan,
Hēlang bērsarang di-pohon uni;
Sanak bukan, saudara bukan,
Mēngapa gērangan datang ka-
sini?*

*Kayu udek dēkat desa.
Di-hinggapi oleh si-burong lang;
Orang arif lagi bērbangsa.
Baik-lah sēgēra kēmbali pulang.*

*Mati di-patok ular-nya lidi,
Di-panah oleh Raja Hanuman;
Bēsērtā kolam tēmpat ku-mandi,
Ēntah-kan balek akhir-al-zaman.*

*Di-panah oleh Raja Hanuman,
Di-sambar paksi burung dewata;
Ēntah-kan balek akhir-al-zaman,
Sudah nasib pērtēmuan kita.*

*Siamang ku-sangka Zanggi,
Mati di-bunoh hulubalang tua;
Memang ta' baik orang pēndēngki,
Badan sēndiri ia kēchewa.*

*Mati di-bunoh hulubalang tua,
Jatoh di-sisi pada pēngkalan;
Akhir sēndiri jua kēchewa,
Maksud ta' sampai jadi kēmbalan.*

*Pērgi ka-pantai mēnjala ikan.
Di-tebar dapat alu-alu;
Sanak bukan, saudara bukan,
Hampir ka-mari tidak-kah malu?*

*Di-tebar dapat alu-alu;
Di-sambar unggas si-raja hēlang.
Hampir ka-mari tidak-kah malu?
Baik-lah sēgēra kēmbali pulang.*

Whilst in the usual *pantun* the second couplet is the essential part, and the first lines may differ occasionally without much affecting the total meaning, there is another class of *pantuns* wherein much more stress is laid upon the first couplet, and the second seems to be more loosely attached. There are *pantuns* belonging to certain series of quatrains strung together by a connection between the different first couplets, other than "*pantun berkait*." Such series for example are those which in the first couplets narrate a legend like that of *Panji Sēmerang* or *Sēri Rama*, or series of mnemonic verses such as the *Rējang Sombang*, *Rējang Siak* and *Rējang Sindiran*, and the *Alif-Ba-Ta* series. In those quatrains which are mostly inferior in quality as compared with the usual *pantun*, the first couplet is apparently the most important, and the second often differs in different versions, whilst the first couplets are identical. The second couplets often seem to be taken from a general stock of *puji-pujian*, *kēnang-kēnangan* or

měrěndahkan diri verses, and show no individuality. In a contest of singers they may be used to show the wit of the rivals, or during a long trip on a river a lover may drone them to his sweet-heart.¹ Most of these series are too long to be given here, but two variant versions of the "Storm in a tea-cup" will illustrate the point.

"Pantun Mělayu."

The writer's collection.

*Anak ayam turun sa-bēlas
Mati sa-ekur tinggal sa-puloh.
Mata siapa tidakkan bēlas
Mēlihat kapal bēraleh laboh.*

Missing.

*Anak ayam turun sa-puloh
Mati sa-ekur tinggal sēmbilan.
Mēlihat kapal bēraleh laboh
Di-laut Pulau Sēmbilan.*

*Anak ayam turun sa-puloh
Mati sa-ekur tinggal sēmbilan.
Angkat tangan jari sa-puloh
Hēndak bērmohon kapada-mu
tuan.*

*Anak ayam turun sēmbilan
Mati sa-ekur tinggal lapan.
Di-laut Pulau Sēmbilan
Di-situ-lah banyak kapal bēragan.*

*Anak ayam turun sēmbilan
Mati sa-ekur tinggal dēlapan.
Hēndak bērmohon ka-pada tuan
Niat di-hati mēnjadi kapitan.*

*Anak ayam turun dēlapan
Mati sa-ekur tinggal tujuh.
Di-situ-lah banyak kapal bēragan
Anak kēlasi habis gadoh.*

*Anak ayam turun dēlapan
Mati sa-ekur tinggal tujuh.
Niat di-hati mēnjadi kapitan
Kapal bērlayar sudah bērlaboh.*

*Anak ayam turun tujuh
Mati sa-ekur tinggal ēnam.
Anak kēlasi habis gadoh
Kapal di-laut habis jēhanam.*

*Anak ayam turun tujuh
Mati sa-ekur tinggal ēnam.
Kapal bērlayar sudah bērlaboh
Di-pukul ombak sudah jambatan.*

*Anak ayam turun ēnam
Mati sa-ekur tinggal lima.
Kapal di-laut habis jēhanam
Panggilkan-nya tukang China.*

*Anak ayam turun ēnam
Mati sa-ekur tinggal lima.
Di-pukul ombak sudah jambatan
Kasi baik tukang China.*

*Anak ayam turun lima,
Mati sa-ekur tinggal ēmpat.
Panggilkan-nya tukang China
Mana yang rēnggang habis rapat.*

*Anak ayam turun lima,
Mati sa-ekur tinggal ēmpat.
Sudah baik tukang China
Mana yang rēnggang kasi rapat.*

*Anak ayam turun ēmpat
Mati sa-ekur tinggal tiga.
Mana yang rēnggang habis rapat
Che' kēlasi baharu-lah suka.*

*Anak ayam turun ēmpat
Mati sa-ekur tinggal tiga.
Mana yang rēnggang kasi rapat
Kapal baik di-layar juga.*

1. Compare the pantuns in "Anggun che Tunggal."

*Anak ayam turun tiga
Mati sa-ekur tinggal dua.
Che' kelasī baharu-lah suka
Bongkar sauh bĕrlayar sa-mula.*

*Anak ayam turun tiga
Mati sa-ekur tinggal dua.
Kapal baik bĕrlayar juga
Haluam mĕnuju tanah Jawa.*

*Anak ayam turun dua
Mati sa-ekur tinggal satu.
Bongkar sauh bĕrlayar sa-mula
Hĕndak mĕnuju gĕdong batu.*

*Anak ayam turun dua
Mati sa-ekur tinggal satu.
Baluan mĕnuju tanah Jawa
Sudah naik di-atas batu.*

*Anak ayam turun satu
Mati sa-ekur habis sudah.
Hĕndak mĕnuju gĕdong batu
Jual barang harga yang murah.*

*Anak ayam turun satu
Mati sa-ekur habis lalu.
Sudah naik di-atas batu
Di-pukul ombak bĕrtalu-talu.*

*Anak ayam habis lalu
Teli rotan ambil di-chabut.
Di-pukul ombak bĕrtalu-talu
Sĕgala kapitan kĕlam kabut.*

The examples given above of *pantuns* with different first and identical second couplets, and on the other hand of quatrains with identical first and different second couplets may tend to show that the connection between the first and the second pair of lines is not very strong, and that often the picture contained in the first couplets is not conditional or depending on the thought expressed in the second lines. Such *pantuns* therefore seem to follow rather the "clever arabesque" of some Chinese poetry than the way of the picture strictly illustrating the thought of the Indian sloka.¹

It would be interesting to know if other peoples besides the Malays and Sundanese have verses similar in structure and use to the *pantun*. Dr. Winstedt in his preface to "*Pantun Mĕlayu*" speaks of the *pantun* as the love-verse and lampoon of Indonesian peoples, and a comparison with songs from the Philippines, Fiji, New-Zealand should give interesting results. Perhaps the learned societies there could furnish the necessary material.



1. The writer has since found in *Menangkabau* tales six-lined *pantuns*, of which the 1st and 4th, the 2nd 5th and 3rd and 6th lines rhyme. Particulars will be given in another paper.

A Tamil Malay Manuscript.

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It is well known that Islam and the greater part of Moslem mysticism found its way to the Indonesian Archipelago not from Arabia, but from Southern India. It is, indeed, a truth so well proved, that it seems superfluous to lay stress on it, or to deal with it in detail. It may suffice to remind the reader of the undeniable fact that the very form of popular Islam, the character of its mysticism, the whole Islamic edifying and romantic literature, the form of many Arabic loanwords, the style of Muhammedan tombs and so on point to Southern India as the land of their origin.

The Tamil words which were introduced by the Dravidian Moslem merchants, who converted the partly animistic partly Hinduistic population of Sumatra and Java, are still in use. Many a Dekhan saint or divine is venerated in these islands to the present day; in short, the Muhammedanism of the Dekhan still flourishes in the Indonesian world, in spite of later orthodox influences from Mecca and Hadramaut.

The substratum of animistic ideas is always visible through the Islamic tenets in their popular form while the Hindu nomenclature of some Moslem ideas indicates the intermediate layer that preceded the Islamic period. Let us only call to mind that to designate the Moslem teacher, the Islamic fast and the Muhammedan religion old Sanskrit words (*guru*, *puvasa* and *agama*) have survived in many Indonesian languages.

All such historical evidence as is now available regarding the introduction of Islam into the Archipelago has been elucidated by various scholars in the course of their investigations. The people themselves are not aware of the link which exists between their creed and the distant Mohammedan provinces of Southern India. At best, a few Indian immigrants may have a dim consciousness of the existence of that historical connection. Thus, some thirty years ago, a member of the Indian merchant family Akuan at Samarang showed a trilingual Muhammedan manuscript to Dr. Snouck Hurgronje. "This document," the owner explained, "shows the way by which the penetration of Islam has taken place: the Persian part representing the original literary language of Islamic culture in India; the portion in a modern Indian idiom, not understood by us, being representative of the interjacent country between Hindustan and these islands, and the third portion, the wholly intelligible Malay part, the speech of Islam as it is now in this country." But that intelligent merchant certainly is an exception. In order to follow the current of Islamic civilisation we have to examine historical facts and linguistic and religious evidence. In certain cases we have to rely on a single book, tale or manuscript.

So with the subject of the present paper, a manuscript which clearly shows that the Islam of Indonesia is South Indian in its origin, and was introduced by Indian Moslems, who came from the Dekhan, especially from the Tamil country. The MS. I review, is an ancient looking folio, described in my recently published supplementary catalogue of the Malay manuscripts in the Leyden University Library sub No. 754.¹ It mentions neither the place where it was written nor the name of its original owner. Yet it speaks an eloquent language, as it is composed in two idioms, Tamil and Malay, and contains moreover passages in Persian. So here we find the three Islamic languages in question employed in one book.

This manuscript, moreover, presents an example of Tamil written in Arabic characters and used for the rendering of an Arabic text. Tamil books, it is true, printed in Arabic characters are by no means unknown—(I was shown some specimens in the library of the India Office at London in 1907), but such manuscripts so far as I know, are very rare, and this one at least is unique both in Holland and Dutch India.

I will not tax the reader's patience by an exposition of the system followed in rendering Tamil sounds by Arabic characters; it will suffice to state that a copious use has been made of the so-called emphatic letters and dental letters with dots beneath them. Moreover the transliteration does not seem to be quite consistent. The very first page is typical of the nature of the whole book, Malay being mixed with Tamil without any apparent transition. This page is taken up by a *niyyah*-formula in Malay (the formulary for the inward intention to perform the ritual prostrations, *sembahyang*), ending in an Arabic prayer, which in its turn is followed by an explanation in Tamil, all by one and the same hand, and in one continuous handwriting. So, after an Arabic prayer, at once the text continues with an explanation in Tamil,² and so on. Evidently the author or scribe wrote the three languages with equal ease and understanding.

After some introductory matter a regular text begins, viz. an Arabic treatise styled: *Izām al-fawā'id fī nizām al-akā'id*, on the tenets of the creed, accompanied by a Tamil version with fully vocalised Arabic transcription, many diacritical signs but not a single Tamil letter: so it is all in queer-looking Arabic writing. The Arabic dogmatical treatise, by Mahmūd Ibn Muhammad Labai Kumāran begins, after the usual eulogy in honour of Allah and the Prophet, as follows: "The poor slave, who needs the intervention of the Prophet, says: this is a short treatise which deals with what

1. A MS. in folio 90 folios (180 pp.) written on European paper in a bold and clear handwriting, dated 5 Sha'ban, 1192; worm-eaten.

2. *اے کلمہ ہوتا ناکل* *id est inda kalimawai connanagil* = if one has recited his prayer. The original has diacritical marks.

adults should know about the right creed and pious works, and which I have compiled from books of great, renowned *imām's*, as Al-Ghazālī, Al-Nawāwī, Muhammad Ibn 'Arabi, 'Abdulkarīm Al-Jabli, Muhammad Ibn Fadlallāh, Ahmad Al-Kushāshī and others, together with a translation into the Ariwī-language for the use of whosoever does not fairly understand Arabic. I have named it: the great guides in the arranging of tenets, and divided it into an introduction, four paragraphs and a conclusion."

Now, every sentence of this dogmatical treatise is followed by its rendering into Tamil. The translation therefore is not an inter-linear one presenting the equivalents of each separate word and every suffix as is often the case in Malaised and Javanised Arabic texts, but a connected translation of complete periods, in full agreement with the syntax of the idiom used for the translation. But, it is almost superfluous to add, the language used shows an admixture of Arabic words and Persian terms such as is never found in non-Islamic Tamil writings.

The first question which presents itself is: why is the Tamil language indicated by the curious term Ariwī? Evidently, it represents the Islamic name for the Tamil idiom. At first sight one might be tempted to identify it with Ariwī, the language of Arvi in the Wardha Districts. But according to the Imperial Gazetteer (XXIV, 368):—"about 86 per cent. of the population are Hindus and nearly 4 per cent. Muhammedans. The statistics of language shows that 79 per cent. of the population speak Marāṭhī; of the remainder 13,642 persons (in 1908) probably all Muhammedans speak Urdu, 25,740 Hindi (principally Brāhmans and Rājputs), 39,385 Gondī and 2,428 Telugu." Arvi moreover does not belong to the Tamil area, and counts too small a proportion of Moslems among its population to give its name to a language used by millions in other parts of India. But, it is known that Aruwā is one of the thirteen countries, in which the inferior type of Tamil is spoken" (un pays où l'on parle le bas tamoul), and although the language of this translation is by no means the so-called *kodun* Tamil (the rude, unpolished form), I am unable to propose a more plausible derivation than that from Aruwā with the Arabic ending *ī*. Perhaps a better etymology may be given by some authority in Tamil matters; it may be added that in Hindustani *arwā*, being a Dakhni word, means: "of or belonging to Malabar," which nearly indicates the Tamil-speaking country.

1. Arabic *بلسان الاروي* but in the translation *ارو فاش* 'arabuppacai
ariyadawanukku lecyawendi arawippacai kondū oraicceyiyappadi tagawum
korwaiccyen idai peruwaitten etc.

2. "13 Tamil-nadu (தமிழ்நாடுகள்) which belong to the country
wherein Tamil is spoken, i.e. the Cen-tamil-nadu, where elegant Tamil is spoken
and 12 in which the common language is spoken, as Tenpandi, Kuttam, Aru-
wa, Cinam, Matadu etc.

I proceed to quote a few sentences of the beginning of the treatise in Tamil translation: for convenience's sake I abstain from using the elaborate Tamil characters. The Arabic preamble runs:—"Praise to Allah who created the creatures in order to know Him, and ordained them to follow His commands; prayer and greetings be on His apostle Muhammad the Prophet on whom His mercy be bestowed."

The Tamil translation runs thus:

<i>ellā</i>	<i>pugalum</i>	<i>pugalcium</i>	<i>Allah Ta'ala</i>	<i>ukku</i>
all	praise	laudation and	Allah Ta'ala	to
<i>padaippugalai</i>	<i>padaittān</i>	<i>tanai</i>	<i>criya</i>	<i>wēndi</i>
creation (acc.)	who created	him	to know	for
<i>tanudaya</i>	<i>mārkattūdu</i>	<i>nadakkumpadi</i>	<i>parimānān</i>	
his	divine way in	to walk like	he ordained	
<i>Allah Ta'ala</i>	<i>udaya</i>	<i>salamum</i>	<i>awanudaya</i>	
Allah Ta'ala	of	peace and	his	
<i>tūdan</i>	<i>ukku</i>	<i>namudaya</i>	<i>nabiyār</i>	<i>Muhammad</i>
messenger	to	our	Prophet	Muhammad
<i>rahmatānawidam</i>		<i>awargalci</i>	<i>kottiram</i>	<i>awar</i>
grace means		to his	tribe	his
<i>tōlanmār</i>	<i>awarudaya</i>	<i>ummatukku</i>	<i>undāwatāgawum</i>	
comrades	his	family to	shall become.	

Certain portions which were illegible to me (a Tamil Moslem, no doubt, would be able to read them) I have left vacant. In the same manner the translation runs, ever increasing in its interpretation of the Arabic sentences, so that gradually it develops into an ample commentary, fifteen folios, till there comes an abrupt ending. The last page of these fifteen folios is not covered with writing; on the page immediately following a Malay dogmatical tract of six folios begins. Next come some Tamil pages containing different dogmatical and legal items, and some *niyyah*-formulae and wedding-formulae, the Arabic prayers being indicated either by Tamil or by Malay titles, on one page even by a Persian one. So we find here the four great Moslem languages united: the sacred Arabic for the formulae, the old literary Persian, which once was the court language in Northern India, the far spread Malay, which is both the intermediary language of all Indonesian nations of the Moslem creed, and the islamised Tamil, the commercial idiom of the Dekhan.

The text further deals with the common dogmatical and mystical or divinatory subjects, which are usually to be found in so many Indian and Indonesian religious tracts. It would be extremely tiresome to enumerate the contents of this varied manuscript in detail; it may suffice to point out the characteristic parts only. So we pass by in silence the Malay portions on dogmatics and the mystic circles (so-called *dairahs*) and on the different

spirits (*rūh*) as well as a treatise in catechism form on *islām* and *imān*, which altogether takes up nearly one-third of the whole book. We will restrict ourselves to a summary.

After a page filled partly with Malay, partly with Tamil and for the third part with Arabic, follows a small treatise in Arabic, concerning the Prophet Muhammad; each Arabic sentence being followed by its Tamil translation and commentary. Subsequently—we omit prayers, some of them with a Tamil introduction—a Tamil enumeration of the Muhammedan months and the luck attaching to them is succeeded by prayers and invocations, and this portion in its turn by a short Malay tract of dogmatical tendency. This joins on to an enumeration, in Tamil again, of the ancient prophets and of Muḥammad's wives, which is concluded by a great magical quadrat, fully and completely elucidated by means of Tamil comments, *i.e.* an elaborate and crudely worded exhortation regarding sexual matters. It is very remarkable to find a page containing a Persian portion and a Tamil one, the former being preceded by a couple of lines in Arabic characters in a language which is neither Tamil nor Persian nor Hindustani, but presumably some other Indian idiom.

Next there follows a Malay treatise dealing with nearly the same subject, *viz.* exceedingly intimate and confidential hints about coitus and allied items, and this treatise is succeeded by a Tamil portion of a divinatory kind, with a complete calendar. In order to give an idea of the transcription of Tamil in Arabic characters I mention now the numerals in both scripts. In the original diacritical marks are used Arabic characters.

1	وند	<i>ondru</i>	ஒன்று
2	ارند	<i>irandu</i>	இரண்டு
3	موند	<i>mundru</i>	மூன்று
4	نال	<i>nalū</i>	நாலு
5	انج	<i>anju</i>	அஞ்சு
6	ار	<i>aru</i>	ஆறு
7	بيض	<i>elu</i>	ஏழு
8	يد	<i>eddu</i>	எட்டு
9	انضت	<i>onpadu</i>	ஒன்பது

Finally the last folio, which is detached, but evidently belongs to the book, concludes with a Malay verse of the ordinary kind, on a lady and her birds, with some Javanese words, by a certain

Tambi Mirah, who styles his poem Sha'ir Indra Dibawan, a name of no importance. The author pretends that the book was in the possession of an inhabitant of Batavia, but this assertion proves nothing regarding its real origin. Over the poem there is written a date, viz. A.H. 1192, 4 Sha'bān (1191 *warusham Sha'bān māsam 4 tiram*) i.e. 29 August, 1767, and its owner's name a certain Kumāran with an illegibly written name of a town ending in *puram*, certainly not Singapura. This name, if it be one, is divided into three unvocalised words, viz. نل بلشنو فرم

Having completed my summary of the manuscript I wish to offer a few remarks on the question of its origin. The former proprietor, Professor Snouck Hurgronje, purchased it in Java. But, evidently, it was previously the property of a Moslem, to whom Malay was as familiar as Tamil, and to whom Persian was not an unknown language. An individual of this type one may expect to find in Singapore, at Pulau Pinang, in the Federated Malay States, in short, anywhere in British Malaya and islands, but certainly not in the Dutch Indian Archipelago, not even in Acheen. "Habent sua fata libelli," and Malay books too may have their vicissitudes. I saw in Sumatra Malay manuscripts, which had been the property of descendants of the Sepoys, who on the cession of the Western parts of that island to the Dutch government went over from British to Dutch service. These books had been provided with interlinear comments in Javanese and in Arabic characters, so-called *p'egon*. Evidently this commentary was due to some later owner of Javanese blood. Almost any collection of manuscripts in Java comprises some books of remote origin, which one would hardly expect to meet with in this part of the world.

The manuscript which forms the subject of the present note must have been brought to Java by a native of that country. Through the agency of Dr. Snouck Hurgronje, late Adviser to the Netherlands-Indian government and now Professor of Arabic at the Leyden University, it has found its way to the University Library. As regards the original owner, we can only conjecture that he was a Tamil Moslem, who had dwelt long enough in Malaya to know Malay. But we cannot fancy the existence of a Tamil who lives long enough in a Malay country to master the Malay language so that it becomes equally easy for him as his own original idiom. It is obvious therefore that not he but a son of his, born in Malaya from a Malay mother, wrote this book. From his father he got his familiarity with Tamil, from his mother his knowledge of Malay, from both his Islamic creed. Such a man would be a typical representative of the immigrants who introduced Islam into the Archipelago.

These settlers, Dravidians or Guzeratis, married native women in the Peninsula and in the islands, and their sons, so-called *pěranakan*, were familiar with the languages both of their father and of their mother. The former idiom they gradually forgot so that finally their only language was Malay. Their sons, in their turn, knew neither Tamil nor Persian, but understood and talked nothing but Malay.

This worm-eaten, slovenly written, manuscript, although neither very ancient nor specially important is a curious historical document belonging to the period when Islam was introduced from the *něgěri di-atas angin* (Persia and Hindustan) into the *něgěri di-bawah angin* (Malaya, Sumatra, Java and the islands further on to the East). It is a document bearing evidence of the great movement that swept away Hindu culture in the Indonesian world. It points to the Straits as the link between Southern India and the Archipelago. Consequently it seemed particularly fitting that an account of this manuscript should appear in the Journal of the Straits Branch of the Royal Asiatic Society.

Leiden, March, 1921.



The Tiger-breed families.

BY ZAINUL ABIDIN BIN AHMAD.

Among the peasant population of Jempul, a settlement of Malay villagers along a river of that name in the Kuala Pilah District of negri Sembilan, there is a belief that certain families in the local tribe (*suku*) of *Tiga Batu* have a mysterious connection with tigers. Report has it that this belief is not peculiar to Jempul, but extends over a wide area in the Nine States—Juasseh, Rembau, Tampin, Terachi, Gunong Pasir, Jelebu and Pantai. The writer however has not made a study of the belief in all these places, and this paper deals only with Jempul. For want of a better term I call the families in question “The tiger-breed families.”

The belief is that members of the particular families become tigers *after their death*: a man becomes a tiger, and a woman a tigress. Thus, though the belief recalls the were-tiger and were-wolf stories which are widely known and believed in many parts of the world, it is not exactly the same: the one belief supposes the transformation to take place at will during life, and the other that it takes place only after death. In their life-time as human beings members of these families are said to be peculiarly related with certain tigers of the forest, whom they vaguely recognise as incarnations of dead relatives. These tiger “relatives” sometimes come to the compounds of their human kinsmen, protect their cattle from the attack of foreign tigers, their poultry from civet-cats (*musang*) and their paddy-fields or tapioca plantations from the ravages of wild-boars. The visitors are expected especially during the nights of Hari Raya, or when there is grave trouble in the family to which they belong. But it is seldom that many come together. Usually one or two represent the clan. Often a man will warn a friend belonging to one of these families, not to make mischief when he becomes a tiger. “When your turn comes to become a tiger” (*i.e.* when you die) he will say, “I trust you will still remain a friend to me, and not do me or my folk and cattle any harm. Otherwise I will shoot you. If you require food, you are free to hunt your own fellows in the jungle. Why harm our human kind?” Sometimes such words are spoken jestingly, but more often in a tone of deadly earnestness.

All this sounds as absurd as it is interesting. But all the villagers living within circumference of the families tell the same tale. They say that when a member of one of these families is ill, there is always one tiger at least haunting the neighbourhood of the patient's house (as though there had been telepathic communication between the two). He comes closer and closer as night approaches, and at such a time nobody dares to go out of the house unaccompanied. The compound of the Malay villager's house is

usually surrounded with scrub and patches of low-lying shrubs: it is in these that the tiger has his hiding place during those anxious moments of the patient's illness. If the illness is serious, or the patient is dying, the tiger will show signs of trouble and uneasiness. He groans, makes piteous noises and restlessly moves from one end of the compound to the other. Occasionally in his seeming anxiety for the patient's condition, he encounters the human visitors who pass with their torches to or from the patient's house. But he is harmless, though the people have their hearts in their mouths. The dying patient in the house seems no longer conscious of his or her identity as a human being. He tosses about, grinds his teeth and looks wild, manifesting a hundred and one of the characteristics of a tiger, trying to force out a tail (*měng-hējan ekor*) from the coccyx, and often giving unmistakable responses to the signals from his tiger-friend below. Very often more than one tiger will come and make circuits round the house. With the first peep of day the inmates of the jungle betake themselves to the nearest bushes, showing themselves at times, and making their presence felt all through the day. The following night brings them back to their sentinel routine. But they are not to be harmed nor do they do any harm. The patient breathes his last and then all is silent till the burial is over.

In ordinary cases the prospective tiger dies peacefully, and then becomes a tiger. No one has ever cared or dared to go and watch what really happens at the grave during the few nights following the burial. They say that some days after the burial, the white shroud (*kain kapan*) of the buried body is found lying besides the grave, torn and tattered; and a hole of the size of a man's body is found to have been made into the grave, while the foot-prints of tigers are seen everywhere. From this it is concluded that the tigers must take the corpse and bear it (*usong*) into the forest where the metamorphosis takes place in some inexplicable way. A tiger representing the dead person makes his appearance shortly afterwards. Even if the person dies in another country, he comes home to his native village in the shape of a tiger, and announces his arrival through a dream to the principal member of the family. Soon after the announcement, a new tiger appears in the neighbourhood. There are characteristic marks on the tiger answering to the marks on the person when alive as a man. If the person had a deformed leg, the new tiger also has a deformed leg. If the person was bald-headed, the tiger also is bald-headed. He is also distinguishable as the personification of such and such a member of the family by peculiar gait and bearing or general build which are those of the dead person. These tigers understand and respond when called by their human names. I cannot illustrate this better than by a personal story. One night, many years ago, my grand-mother was troubled by a herd of buffaloes breaking again and again into her poorly-fenced compound where vegetables and young fruit-trees were sprouting. The moon was overcast, and the night was cool and calm. Repeatedly the old lady

drove the intruders away, but as repeatedly they returned. It happened that she had an old friend named Faseh who had died about a year before and was believed to have become a tiger. In her impatience, the old lady shouted out: "O Faseh, my friend! If you really have become a tiger, please do me the favour of driving away these nasty buffaloes, and thus save my little garden from being destroyed." A few moments passed. Then all of a sudden, the buffaloes bellowed and rushed out of the compound helter-skelter for their life; while above the confusion rose the terrible roar of an angry tiger. We were panic-stricken in the little hovel where we lived, and the old lady felt sorry for having called the tiger. But for the rest of the night and for many nights afterwards the buffaloes never returned.

Another incident of a different nature illustrates the superstition. A Malay woman named Ba'idah, belonging to one of these tiger-breed families, had a dead brother, believed to have turned into a tiger. One night she dreamt that this brother in the shape of a man returned home from a long journey, very badly wounded in his chest by an accidental shot from a spring-gun (*bēlantek-usa*). He came up the verandah (*sērambi*) and there lay groaning with agony and saying he was going to die. When she woke up in the morning she told her husband what she had seen in her dream. On opening the door leading from the main room to the verandah they found that all the verandah was besmeared with fresh blood. They suspected this was the blood of the wounded brother who had come home in the woman's dream. It seemed that the tiger had left the house only a short while ago. Calling their neighbours who came with guns and spears, they followed the track of the blood and foot-prints into the forest. They did not go far when they came upon the carcase of a huge tiger. The distinctive marks they found on the carcase assured them that it was indeed the woman's brother. The mortal wound was exactly in the chest, and appeared to have been inflicted the very same night. Many similar incidents are known throughout Jempul. Time and again it is related these family-tigers visit their relatives' houses during the nights of holy festivities, such as Hari Raya. Sometimes they manage to make their way into the kitchen, and feast over some *rēbus kērbau* or *ikan pindang* that may have been left on the hearth. Morning comes to tell the tale from the traces they leave behind and the clean-licked cooking pots and dishes. This would make an interesting counterpart to the well-known nursery tale of Santa Claus who comes on Christmas eve to bring presents for children.

There are many little graveyards throughout Jempul which are credited with having produced tigers out of human corpses. Two of them deserve special mention, and these are *Kubor Nesan* and *Kubor Lēban*, situated in Kampong Tengah. These two are among many which have become highly revered by the ignorant masses. They pay their vows (*niat*) there, and propitiate the spirit of the place.

They say that all the tigers springing from these graves are saints (*Harimau Kéramat*) under the more saintly lordship of the great *Dato Paroï* whose abode is Gunong Angsi, as opposed to Gunong Ledang which has its own army of tiger-warriors and settlers. Fancy and superstition have associated endless tales and legends with these two leading personalities,—the Dato Paroï and Dato Gunong Ledang. Of them as of a few other tiger-tales I propose to speak in some future article.

Belief in were-tigers whose transformation takes place during life, is general all over the Peninsula. But, as a rule, the power is ascribed to people of the Korinchi tribe from Sumatra. The possession of the power by a person is said to be indicated by the absence of the furrow (*alor*) which ordinary men have on their upper lip immediately below the nose. Tigers of this sort are called *harimau chénaku*, or *harimau jadi-jadian*. They change back into man just as the man changes into tiger. Sir Hugh Clifford in his book "The Further Side of Silence" relates a case of a Malay were-tiger.



Two Legends of Malacca

BY R. O. WINSTEDT, D. LITT. (OXON.)

The "Malay Annals" (Shellabear's romanized *Sējarah Mēlayu*, 1909, Vol. I, p. 60) record how Sultan Iskandar was hunting near Bertam River, when a white mouse-deer kicked his hunting dog into the water. He chose this spot where mouse-deer were valiant for his new settlement and named it Mēlaka after a tree (*Phyllanthus pectinatus* of the Order *Euphorbiaceae*) against which he was leaning at the time of the incident.

Now there exists a similar Sinhalese legend of the founding of Candy, a hare and a jackal taking the place of mouse-deer and dog and the hare's courage being ascribed to recoil from a rock that intercepted her flight (Parker's "Village Folk-Tales of Ceylon," 1914, No. 76, Vol. II, p. 3).

In the *Hikayat Hang Tuah* it is related how when they came to Malacca the Portuguese bought as much land as an ox-hide would cover and their captain cut it into strips and so got enough land to erect a large godown (J. R. A. S., S. B. 83, p. 122). Benfey has collected many parallels from mediaeval and modern literature and folk-lore; there is the famous tale of the founding of Carthage, the tale of Hengist in Geoffrey of Monmouth, and another in the French romance *Melusine*; there is the popular etymology of Hyde Park. Popular etymology erroneously finds the same origin for Bhutnair and Calcutta (Todd's "Annals and Antiquities of Rajasthan," II, 235; 1852). "Thare-kettaya near the modern city of Prome was built 443 B.C. Its name has to do with a very ancient artifice. 'Facti de nomine byrsam taurino quantum possent circumdare tergo.'" (Scott O' Connor's "Mandalay," p. 301; London, 1907). American Indian attributed the trick to Europeans who bought land from them. In Sanskrit *gotsharman* (lit. cowhide) = "a land measure, one hundred feet long and ten broad."



Hikayat Si-Miskin or Marakarma.

BY R. O. WINSTEDT, D. LITT. (OXON.)

There are 5 MSS. of this tale at Batavia (van Ronkel's Catalogus," CXL-CXLIV): two at Leiden (Juynboll's "Catalogus," CXII and van Ronkel's Supplement-Catalogus (1921) 13); one in the possession of the Royal Asiatic Society, London ("Essays on Indo-China," Second series, vol. II, p. 35). It has been twice (1857 and 1894) lithographed and once (1915) printed in Malay characters at Singapore. It is the printed version I have used for this paper. Newbold mentions the romance and gives a brief synopsis—"British Settlements in the Straits of Malacca," vol. II, pp.328-330 (1839).

Many writers have quoted Professor Snouck Hurgronje's dictum on the home of most Malay romances being "that part of South India which is also the source whence are derived the popular mysticism and the popular religious legends of the Muslim peoples of the East Indian Archipelago" ("The Achehnese," vol. II, p. 122). At the same time few English scholars have adopted his method of analyzing and giving an outline of a tale, so that it may be accessible to students of comparative folk-lore most of whom are ignorant of Malay. Outlines in English are especially likely to be of value, because so many European and Oriental experts in the folklore of British India will have little acquaintance with Dutch; and it is those experts particularly who should be in a position to identify the sources of Malay borrowings.

I give first an outline of the romance of Marakarma, to use its more apposite title, and I add comparative notes.

In Anta Bëranta, a land ruled by Maharaja Indra Dewa, lived a poor vagabond couple, Si-Miskin and his wife, erstwhile rajas from the heaven of Indra but exiled by the curse of Betara Indra. They were driven away with sticks and stones from palace and cottage and market-place, so that to allay their hunger they fed on plant-shoots and picked bundles of rice (*kétupat*) and sugar-sticks from dust-heaps on the highway. When Si-Miskin's wife had gone three months with child, she longed for a manggo (*empêlam*) from the royal orchard, and the Maharaja granted her husband's supplication for the fruit. Three months later she longed for a jack-fruit and again the ruler was gracious. She bore a son and named him Marakarma, because he was born in poverty. Digging a site for a hut her husband found a jar (*tajok*) full of gold. He went to the town and ordered shoes, a staff, clothes, horse and trappings, creese, sword and shield (*otar-otar*). Then after bathing he prayed to the *dewa* that a town might be raised up in the forest. His prayer was heard. He ruled over this town, Puspa Sari, with the title Maharaja Indra Angkasa, and his consort was

styled Ratna Dewi. She bore a daughter Nila Kesoma. The merchants from Anta Beranta brought fans, water-kettles, shoes, shields, creeses, spears, saddles and umbrellas. Incited by the jealous ruler of Anta Beranta lying astrologers tell Maharaja Indra Angkasa that his two children will work his ruin. They are driven into exile, with no possessions save a ring, a magic stone (*gêmala*) and seven bundles of rice, the parting gifts of their heart-broken mother.

After the departure of the two children, Puspa Sari is consumed by fire and its ruler with his consort left poor and homeless again in the forest.

In his exile Marakarma learns magic (*kēsaktian*) from genies, *botas*, *raksasas*, dragons and snakes. The children come to a revolving hill where *dewas* play, and they sit down under a *waringin* tree. The boy catches a bird for his little sister. She wants it roasted. Her brother hearing the crowing of cocks goes in search of a house where he can get fire. The householder mistaking him for a thief, beats the young prince and throws him bound into the sea.

Now the land to which the two children had come was Pelinggam Chahaya. Its ruler Raja Puspa Indra and his queen مندروتن had a son, Mengindra Sari, who refused to wed. Hunting, Mengindra Sari finds Nila Kesoma under the *waringin* tree, weeping and holding a wild bird in her hand. His parents adopt her and call her Princess Unfolding Palm-blossom (*Mayang Mēngurai*). Finally she marries Mengindra Sari. There is a dramatic passage describing how in his wooing the infatuated prince teases his young mistress over permission to enter his garden.

One day the young princess laments the loss of her brother Marakarma. In vain they search for him. Cast into the sea he had been borne by the tide to the shore of a land where a *Raksasa* and his wife lived in a house of hair and bones and *batu hidup*. This *Raksasa* had carried off Chahaya Khirani, daughter of Maharaja Malai (مالي) Kisna, and was keeping her till she should grow big enough to eat. Three months at a time the demon travelled in search of food; three months at a time he abode in his hut. During his absence Chahaya Khirani finds Marakarma on the shore, and revives him. He woos her and promises to slay her demon captor. They bandy love verses (*pantun*). When the demon returns, Marakarma hides under his mistress' bed. The demon declares he can smell man but the captive princess denies it. The *Raksasa* lights a fire as big as a burning town, pours rice on to a mat 300 feet wide, and eats it along with spiders, centipedes, lizards, rats, flies and mosquitoes which overcome by the steam drop into the rice. He drinks a well of water, hiccups like

thunder, picks from his teeth with a log chunks of food so big that they kill cat, goose or fowl by their impact. Then he sings so that the beasts in the forest flee. He asks his captive if her liver is big enough for him to eat. Instructed beforehand by her lover, she declares it will never grow big enough unless he gives her the livers of 100 animals to eat. The demon bids her kill the lice in his hair. With pincers and hammer she kills centipedes and scorpions which the demon has mistaken for lice; and eating fried beans and maize she pretends the noise she makes is the cracking of the eggs of the lice. The Raksasa and his wife go to get the livers of 100 animals but all have fled far from his singing. Marakarma digs a pit near the demon's hut, and sets it with caltrops. He piles up rubbish and lights an *ijok* fuse which will take three days to burn. He and his bride escape with the demon's property in a passing ship. Three days later the Raksasa seeing flames rushes home, falls into the pit and is killed.

Lustful for his wife and riches, the captain of the ship pushes Marakarma into the sea. A shark, asked by Marakarma to put him out of his misery, does obeisance and carries the prince in his belly in the wake of the ship till it reaches Pelinggam Chahaya. The shark sprawls on the beach by the jetty of the Fairy God-mother (*Ninek Kēbayan*). An eagle instructs the old lady to put rice-grass (*daun padi*) on the shark's belly, whereupon Marakarma steps out. Ninek Kebayan tells him of the country, its ruler and the royal family. Marakarma guesses that Princess Unfolding Palm-Blossom must be his sister. He arranges cut flowers in posies. Ninek Kebayan sells one to Marakarma's wife on the ship, containing the hero's ring and a letter graved on flower-petals, bidding her go to the palace and tell Princess Unfolding Palm-Blossom of their straits. (The first posy she sold, Ninek Kebayan pretended was arranged by herself. Chahaya Khirani wants to be taught the art. To keep the old lady in countenance Marakarma sends a green fly with her on her next visit which buzzes over the bunch and settles wherever flowers should be stuck!)

Chahaya Khirani is invited to the palace, shows her husband's ring and tells of his plight. The king summons all people to a farewell feast to the wicked ship's captain. Miraculously provided with a steed a prince's attire and 40 followers, by means of a magic stone (*gēmala*) given him by a *bota*, Marakarma goes to the feast. The householder who first cast him into the sea and the ship's captain are both executed (*salangkan*).

Transported to Puspa Sari by the help of a magic stone, the hero finds his father's kingdom desolate forest. He meets his mother gathering firewood and stays with his parents in their forest hut. He reveals himself and prays that Puspa Sari be restored. His prayer is heard. He returns to Pelinggam Chahaya and fetches his sister and her husband and his own wife. Ninek Kebayan is twitted with her inability to walk and advised to get a

young husband to carry her. The royal party set out for Puspa Sari in glass sedans (*mongkor kacha*) and on horseback and are met on the plain Tinjau-maya (تنبو ماي). Maharaja Indra

Dewa fearful lest the importance of Puspa Sari eclipse that of Anta Beranta attacks Marakarma. Marakarma invokes the aid of seven genies, whom in his early exile he had met at lake Indra Semandra,—Raja Mengindra Dewa, Dekar Agas Pri, Raja Kisna Indra Dewa, Raja Mengerna Lela, Raja Chindra Lela and his wife's brother Raja Bujangga Indra. A great battle ensues. Raja Gerdan Shah slays Raja Berma Gangga. Raja Rum Shah is captured and put to scorch in the sun, whereupon firing an arrow that brings rain and mist Raja Shah Pri releases him and ties Raja Bahrum Dewa in his place. The hero causes a town with fort and palace to arise by virtue of a magic stone given to him by Maharaja Dewa Angkasa on the revolving mountain. He encounters his jealous rival, the ruler of Anta Beranta. Each shoots arrows, that turn to fire and to rain that dout the fire, to dragons and to countless demons that devour the dragons. "Thunder rumbled and crackled faintly in the distance; a rainbow stretched across the heavens; stormy sunset clouds arose everywhere; rain drizzled; scale-like clouds were in the sky: the rain-bow was hardly visible; a breeze blew softly; the sunlight was yellow, and lightning now and again streaked the sky; black clouds gathered: portents all of a great prince's death." Maharaja Indra Dewa, ruler of Anta Beranta, fell slain, charging the victor with his last breath to have mercy on his daughter, Nila Chahaya. His wife and daughter and their women hurry on to the field. The wife stabs herself on her husband's body. Nila Chahaya is married to Raja Bujangga Indra and the young couple rule Anta Beranta. "Where are we going now?" asks Ninek Kebayan. "To marry you to a vizier," laughs her mistress. "Well," croaks the old dame, "I did dream last night I was bitten by a snake."

Raja Bujangga Indra takes his sister and Marakarma and a royal party to visit his father, Maharaja Malai Kisna, in the land Merchu Indra. The Maharaja takes his daughter and son-in-law seven times round the country on a seventeen-tiered throne (*pancha-pērsada*). Marakarma becomes Sultan of Merchu Indra.

Mengindra Sari becomes ruler of Pelinggam Chahaya.

The episode of lying astrologers is paralleled in the *Hikayat Jaya Langkara*, and the folk-*tales Raja Budiman* and *Raja Denan*. The episode of two children exiled, separated under a tree, the girl being found and married by a hunter prince and reluctant to tell of the loss of her brother until after her wedding, is found in a Sinhalese tale (Paker's "Village Folk-Tales of Ceylon," vol. II, No. 155 (a)), though details and conclusion differ. A packet of cooked rice is commonly a parting present to a banished child or prince in Sinhalese tales (*ib.* I, No. 7; II, 146 (a)). The incident of a prince *incognito* marrying a girl and taking her on a ship, be-

ing thrown overboard but rescued, and coming to a land where he is recognized and honoured, is found in numerous Indian tales (Steel and Temple's "Wide-Awake Stories," p. 138; F. A. Steel's "Tales of the Punjab," p. 129; Swynnerton's "Indian Nights' Entertainment," p. 276; Knowles "Folk-Tales of Kashmir," p. 167) which all commence with the banishment of two princes owing to a step-mother's cruelty. In a Sinhalese tale with a similar beginning (Parker *op. cit.* I, No. 7) it is a dried fish he had restored to the water which rescues the prince and put him on a sand-bank near to a "flower-mother's" house; the flower-mother discovers that the fellow who threw the prince overboard is about to marry the princess; the prince interrupts the wedding; his oppressor is quartered and the prince becomes a king. It is pretty clear that this Indian tale with its many variants is connected with the more elaborate composite Malay romance.

The comic interludes, in which Ninek Kebayan "the flower-mother" is twitted, remind one of a passage in *Raja Donan* (J. R. A. S., S. B. XVIII, p. 242) and of the passage in the *Hikayat Mahareja Bikrama Sakti* (or *Naklodu Muda*) where the princess' maids are frightened by the parroquet. The description of the demon *Raksasa* is spirited.

There are a few *pantun* in the romance, but to discuss the occurrence of such verse profitably it is necessary always to collate all available MSS. and determine if copyists have followed one original or preferred to substitute verses they happened to fancy.

In quoting parallels from Sinhalese folk-lore, one must remember "that stories which are current in central India, or the lower part of the Ganges Valley, or even the Panjab, as well as tales of Indian animals such as the lion, may have been brought direct to Ceylon by immigrants from Kalinga or Magadha or Bengal. Apparently it is in this manner that the evident connexion between the tales of Ceylon and Kashmir is to be explained, the stories passing from Magadha or neighbouring districts, to Kashmir on the one side, and from Magadha or Kalinga to Ceylon on the other" (Parker, *op. cit.* vol. I, pp. 38-39).

It will be of interest to students of local folk-lore to learn that according to Perak legend Marakarma, the hero of the romance dealt with in this paper, built a fort of cockle-shells on the plain Anta-Beranta at the mouth of the Bruas River (cf. McNair's "Perak and the Malays," pp. 23-24)! A Chinaman is said to have removed the shells to Penang and burnt them for lime.

Hikayat Indraputra.

By R. O. WINSTEDT, D. LITT. (OXON.)

In Journal No. 82 (1920), pp. 145-6, I discussed the date of the Hikayat Indraputra, prefacing my paper with references to the MSS. of that romance. Here I propose to give an outline of the story from the lithographed Singapore edition and to add notes on some of the incidents and sources of the tale.

Indraputra was the son of Bikrama Puspa, ruler of Saman-tapuri, and his queen Junjuma Ratna Dewi. Astrologers prophesied luck for him but declared that at the age of seven he would be separated from his parents and undergo many adventures; they advised that he should not play with animals. One day two craftsmen made the king fishes that swam and a golden peacock. The peacock flew off with Indraputra and set him under a pomegranate tree in the garden of Ninek Kebayan. When the old lady went to sell flowers in the palace, she took Indraputra, pretending he was her grandson. He was brought up by her and a childless vizier. The ruler of that country, Shabsian, speared a deer while hunting and noting how a fawn ran to tend its wounded dam thought of his own childlessness and ordered his viziers on pain of death to discover a means of getting him a child within 40 days. Indraputra volunteered to get from Berma Sakti a cure for the king's childlessness. He sets out. All the beasts of the forest bow to him and beg for help against their persecutor, a Raksasa, who dwells on Mt. Indra Gilan.

He comes to this bone-strewn mountain, whereupon a human skull warns him not to ascend and tells how the demon in the form of an old man had cut him down. The demon meets Indraputra in the shape of an old woman and offers him a sword: he cleaves the demon in two. The demon changes into a young woman: the hero resists her blandishments. The demon changes into a corpse beside a hill he creates. Indraputra ascends and enters a cave full of riches. He reaches the top of the mountain and descends on the opposite side into an orchard. He comes to a plain (*Padang Lela Sri*) beside Mt. Teraji (ترعاجي) where Muslim Genies feed, water and exercise their horses, and practise warriors' games, under Prince Nabat Rum Shah (نبات رمشا) son of Dzahir Johan Shah (طاهير جوهرن شاه). Infidel genies under Tamar J alas (تمر جالس) the son of Tamar Boga (تمر بوگ) trespass there. The two troops fight. Indraputra helps the Muslim Genies and slays Tamar J alas. He is given princess Jajama

(ججا) Ratna Dewi, sister of Nabat Rum Shah, in marriage. Anon he leaves on his quest. He comes to Lake Shamendiran (شمنديرن Samudari Juynboll) and sees corpses strewn under a large tree. One of the corpses warns Indraputra that a man-killing Raksasa lives by the lake whose coming troubles the water. Indraputra pretends to sleep and seizes the demon or fairy (*pěri*) by the hair. The fairy gives him a magic stone (*guliga*) which will raise storms, thunder and lightning; also he tells how once in seven days Princess Gemala Ratna Suri, the betrothed of Raja Dewa Lela Mengerna, bathes in the lake and how atop her bower is a magic stone.

The fairy bids Indraputra steal her jacket while she is bathing and demand the talisman as ransom. The fairy takes Indraputra to his golden bejewelled palace under the lake.

Now Gemala Ratna Suri dreamt she was nipped by a dragon and her talisman stolen. She and seven serving nymphs (*bidu-anda*) don flying jackets and fly (followed by flying caskets of rice-paste and *langir*) down to the lake, where under a pomegranate tree hides Indraputra, having ascended by virtue of his magic stone from the fairy palace below the lake. The princess and her companions bathe. Indraputra steals their flying jackets and then by virtue of his magic stone descends under the water and nips the princess' toe. She ascends the shore with her attendants. In vain they hunt for their jackets. The princess waits biting her finger under a date tree. Indraputra bandies verses with the nymphs. At last the princess approaches and promises him the magic stone in return for the flying jackets. Seated on one of the flying caskets he follows the princess to get the stone. The girls enter the bower. Indraputra is left outside. He forces the seven gates of the seven fences, guarded by an elephant, a tiger, a lion, a rhinoceros, a dragon, a roc (*Gěroda*) and Raksasas on horseback—all mechanical terrors with jewelled eyes; their springs cut by the hero, they fall down. He is taken to a pleasure-land full of singing birds and bathes in a fragrant stream, attended by the nymphs. He is put to sleep in the hall called Rangka Puspa Brahi, whose walls are of glass and ceiling adorned with a tree wherein an owl sits.

He marvels at the wonders of Allah. The princess gives him the magic stone that can create a country with viziers and thousands of genies under four captains, Degar 'Alam leader of genies and fairies, Degar Kilat who in an instant can go to a far country or under the sea, Degar Agas who can fetch fire or wind, Degar Sru who can call down mist and lightning. To use the stone the hero must invoke the princess' ancestor, Dewa Lak Pri (لقفري) who lives in the sea.

Now Raja Dewa Lela Mengerna got a deer while hunting and sent it to his betrothed. The messenger reported that the bower had been forced and there was a youth with the princess. Raja Dewa Lela Mengerna sets out to fight. Indraputra by means of the magic stone calls up rival forces and engages in single combat with the angry prince, calling rain to dout his rival's fire and so on.

Nabat Rum Shah comes to his help. Raja Beatadzir (بختگر) Shah, father of the princess Gemala Suri, hearing she has entertained a mortal, is angered and prepares his armies, but the demon of the lake pacifies him. He settles the strife, and weds his daughter to her betrothed. Indraputra stays with the newly married pair. One day while they are hunting Dewa Lela Mengerna leaves Indraputra for a while and the hero falls asleep under a tree, where Tamar Boga flies off with him to cast him into the sea. Indraputra slays Tamar Boga and falling into a vast plain comes to a stream sweet as honey whose shell-fish (*karang*) accost him by name.

He eats the fish throwing back the shells which become alive again. A white lotus floats up and accosts him. He puts it in his turban, where it turns to rose-water and drips on his body. A red lotus floats up and then a blue; he wears both and they turn to scent. Fish and crabs greet him; he eats them and throws bones and shells into the water where they come to life. Flowers greet him; he plucks them and they turn to posies (*gubah; malai*). He comes to mountains of iron, tin, brass, silver, gold and gems respectively, on all of which birds welcome him. He comes to a mountain of fire and in despair uses his talisman to summon Dewa Lak Pri, whom he asks to take him back to Gemala Ratna Suri. It is a long journey, "seven days' flight for a bird," and if he asks for water he will fall into the lake called Sea of Love (*Bahar u'l-'Ashak*), whose sands are of gold and banks of camphor, and mud of musk, and stones of jewels.

Of course he asks for water and descends at the lake. On its waters are beflagged boats (*pelang, lanchang*) of gold and silver, and royal genies and fairies race them. By the aid of his talisman Indraputra creates a storm and sinks the boats, drowning many of the fairies; then to the amazement of the survivors he stills the storm and restores the boats and the drowned fairies. He comes to another lake Baharu'l-Waji (بحر الواجي) by which is an island Bahrum Dewa.

On that island is a girl chased by two men; she turns herself into a flower and they become pigs and try to eat the flower; she changes into a gem and the men into eagles which strive to seize the gem. A voice calls Indraputra. The gem falls into the lake and becomes a blue lotus; the birds change into dragons. All vanish. Four maids stand by the edge of the lake. They tell Indraputra that the princess was Seganda Chahaya Iram daughter of

Raja Buang Shah, being chased by two suitors (*mambang*) Degar Akas and Ngedan Kilat, both of whom had been encouraged by her father while she was a child. By the advice of astrologers she had been put on the island along with a tablet (*loh lazuardi*): the astrologers had prophesied that a mortal Indraputra would solve the difficulty of the two suitors. Indraputra reads the writing on the tablet. The maids invoke the princess who rises to the surface a lotus and changes into a princess and talks to the hero. The two suitors appear in anger. Indraputra pacifies them and taking the princess to a well bids her look into the glassy surface. Her shadow becomes a princess identical with herself, who is named Seganda Chahaya Bayang-Bayang. The princess takes Indraputra on an elephant into her kingdom and all the people run to see, "some with skirts half adjusted, some with jackets half donned, others with hair untied." The two suitors marry the two princesses.

Indraputra comes to a mountain where is the treasury of Raja Bahrum Tabit (صلينه *v. Ronkel*, طابق *J.*) guarded by a cobra (called ممدود *J. and R.*) which he kills. He enters the forty chambers and is attacked by a horse, a genie Zanggi Gerdan, whom he tames with genies' language. The horse tells him to take a talisman from the head of a glass casket containing a substance (بدی زهر) from the belly of the cobra: that substance will revive the dead.

Now in the land of Zaitun (زیتون) ruled Raja Puspa Pandai, a Muslim genie, who had a son Detar (دیتار) Pandai and a daughter Chendra Lela Nur Lela: his subjects were apes and monkeys, sloths, squirrels and beasts of the forest, who by night became human beings. He puts his daughter in a guarded bower with a myna-bird and a parroquet to amuse her. The birds sought a husband for their mistress and thirty-nine suitors came and heard the fish sing in the pond beside the bower but fell severed from the bridge of swords which led up to it:—the first suitor when sought was reading the romance of "Baginda Shah 'Alam." Now Zanggi Gerdan flew with Indraputra to this bower and the hero entered it safely. He dipped his magic substance in water from a glass bowl (*mundam*) and restored the 39 suitors to life. The princess took him to her parents.

In Zaitun was a great *dewa* king, Raja Gohar (گوهر) Jin, who had a daughter Talela Mandu (Madu *J.*) Ratna he kept in a guarded bower on the plain of 'Aji. To this bower came the golden peacock, which had flown off with Indraputra, and told the princess of his prince's graces. She called a draftsman to draw his likeness. The peacock drew an outline on the draftsman's breast and the man copied it.

After arranging that princess Chendra Lela Nur Lela marry Nabat Rum Shah, Indraputra departs on his steed and waters him at a pool where a *dewa* Malik Zahib waters his goats. Malik Zahib is angry. Indraputra by magic dries up the pool and at Malik Zahib's entreaty refills it with water. Talela Mandu Ratna sees him and sends her maid to ask Malik Zahib who he is. Malik Zahib prevaricates, but when the maid threatens his goat will die if he fail to tell, he reveals the name of his visitor. Her mistress tells her to take the golden peacock and pretend to sell him to Malik Zahib in the presence of the stranger prince. Indraputra recognizes the peacock and asks to meet the princess. Verses are bandied between him and the maid. At night his magic steed takes Indraputra into the princess' bower. Using the talisman given by Gemala Ratna Suri he calls up hosts to fight the guards set round the bower by Gohar Jin. A great battle ensues. Indraputra captures and throws into a trance 40 champions including Raja Ghuran Shah, whose sword is a foot broad. Raja Lela Mengerna, Raja Nabat Rum Shah and all the royal fairies and genies, whom Indraputra had helped on his travels, arrive. Raja Gohar Jin accepts the hero's suit for his daughter's hand. The 40 champions are brought to life by a talisman dipped in oil.

In Samanta Beranta ruled Raja Talela (تليل: تليل) Shah, father of princess Sri Bulan, the sought of many suitors. In that land was a lake and by it a cave where dwelt a demon Ghuran Akas (خور کش) who roved and slew folk at night. Efforts to slay the demon and to block his cave failed. Astrologers declared he could be killed only by Indraputra. The ruler sent his sons Maharaja Derkas (درکس) and Indra Jikuni with a letter inviting Indraputra's aid. Indraputra set out, carrying his bride in a pearl casket, and followed by all the warriors and fairies he had helped. (The passage where Talela Shah asks his son if each passer-by in the procession is not Indraputra reminds of an exactly similar passage in the *Hikayat Pēlundok Jēnaka* (Malay Lit. Series 13, 1915, p. 65) where Raja Singa puts the same question to Raja Kra before Raja Mousedeer passes). Indraputra enters the cave of Ghuran Akas, lighting its depths by his talisman and slaying the huge demon. In the cave is a treasure chamber, on whose door is inscribed the name of Raksa Shah, ancestor of Raja Bahrum Tabut. It takes a month to traverse the cave, wherein is found a pleasance, a bower and a sea guarded by Derma Gangga who gives Indraputra a magic arrow. Indraputra marries Princess Sri Bulan. The pair are escorted seven times round the country on a seventeen-tiered platform (*pancha pērsada*).

Bahrum Tabut, ruler of دالعلهلوس or الموس hears how Indraputra has slain Ghuran Akas and sends him a challenge. Indraputra by magic twists the head of the messenger, an infidel

genie, face behind, and sets out to meet his aggressor. On his magic arrow he shoots to the feet of Bahrum Tabut a tablet (*loh lazuardi*) found in Ghuran Akas' cave predicting death. Terrified Bahrum Shah seeks peace and welcomes Indraputra to his palace.

Indraputra goes to the land of Raja Puspa Pandai and marries Nabat Rum Shah to Princess Chendra Lela Nur Lela.

Raja Dewa Lela Mengerna tells Indraputra that to meet Berma Sakti he must shut his eyes and wish: opening them he will find himself on a plain under a great tree; to sleep under that tree is to invite death from the demon that lives in it; presently a light as of swords will be visible and that light will be Berma Sakti and must be followed. Indraputra observes this advice. The demon of the tree gives him a talisman that will save him from death and enable him to enter rock or timber. The light he follows turns into a pleasance, wherein dwells Berma Sakti surrounded by his pupils (*murid*). At the full moon Berma Sakti takes Indraputra to the lake Bahar-ulka (بحرالقا) and the

island Maalim Khirat (معالم خيرة) where a white lotus to cure the childlessness of the ruler of Shabsian is to be found. On the way the pupils of Berma Sakti are scattered by a storm our hero invokes and he arrives before them on his flying horse. At the island he turns into a dragon and frightens them and calls down rain that wets them while he remains dry. Berma Sakti takes him to a pool where floats a white lotus. They all return to Berma Sakti's palace. At night Indraputra calls forth his three wives out of his magic pearl casket. Berma Sakti takes him to the plain Puspa Beranta where a throne mysteriously appears and a sword of its own accord slays the pupils whom Indraputra is ordered to revive with his charm (بدي زهري) The sword then chops them to pieces and Berma Sakti has to use his own magic stone (شمس قم) to restore them. Berma Sakti tells how the white lotus must be cooked as vegetable: if it fades, there is poison in the pot, for which he gives Indraputra a talisman that will serve as an antidote. He tells Indraputra to close his eyes and wish. So our hero finds himself back in Ninek Kebayan's untended garden. He presents the white lotus to Raja Shabsian. The jealous viziers poison the dish to kill him. He uses his talisman. He becomes court chamberlain. Two maids of the court eat plants that spring from the discarded seeds of the white lotus and become pregnant. The jealous viziers accuse Indraputra of seduction and set him and the girls adrift at sea on a raft. Raja Shabsian's queen bears a daughter, Mengindra Sri Bunga, and thirty-nine princes come to woo her.

Indraputra's raft is broken in a storm; the girls are lost; Indraputra walking below the sea comes to the bower of an old prin-

cess, Raja Dewa Al-Kafri (القفري) grandmother of Gemala Ratna Suri, who gives him a cloth Samanta-Puri, (Sutrapuri *Juynboll*) which laid on the body of a sick person will effect a cure. After wandering seven years below the sea our hero returns to the country of Raja Shahsian and finds his daughter sick. The king proclaims he will marry her even to a slave if he can cure her. Indraputra cures her with his cloth. Then the jealous viziers and the 39 suitors urge the king not to fulfil his promise but to take the princess to the island Pelinggam Dewa and give her hand to the suitor who can catch her favourite parrot. Indraputra uses his talisman and calls genies to build a magnificent barge, which the princess chooses before those of other suitors for her voyage. He calls down a storm which troubles the others while his barge sails through calm waters. On the island the parrot is released. The princely suitors climb a tree (*mërangsi*) to catch the bird. Indraputra fires a magic arrow that turns into wasps and bees which sting the suitors and makes them tumble to earth. Indraputra goes to the tree and the parrot alights on his hand. They return. The princes are defeated by Indraputra at sword-play. Ten of them waylay and slay him. His three wives issue in male attire from the casket wherein he keeps them and restore him to life by using the *بدی ذھری*. Indraputra on his magic steed beats the prince on horse-back. Again they kill him and hack him to pieces. His three wives in male attire find the corpse and show it to Raja Shahsian. Later they revive him. He beats the princes at archery, his magic arrow creating a cloud and wind to disperse the cloud, fire and rain to dout the fire, the arrow returning each time to the quiver; by his magic the arrows of the princes cannot be drawn out of the quivers. Raja Shahsian prepares to marry his daughter to Indraputra, who sends for all the friends of his travels. The wicked viziers and the princes remove all weapons secretly by night and prepare to attack Raja Shahsian. Indraputra calls on Dewa al-Kafri and uses (*tambangkan*) his talisman, whereupon is created a country of fairies and spirits armed and mounted on horses and elephants. Also Indraputra's friends arrive in hosts. The wicked viziers and princes determine to flee by sea. Indraputra calls down storms that destroy their ships. Degar Agas from the air tells them who Indraputra really is, and they return and ask his pardon. He marries princess Mengindra Sri Bunga and finally, taking his four wives in the casket worn at his waist, goes down to a ship and sails to his parents at Samantapuri, where amid great rejoicing he is made Sultan.

The *Hikayat Indraputra* bears marks of being a pastiche, containing a number of folk-tales clustered round the person of the hero.

Flying wooden peacocks are common in Indian folk-lore (Parker's "Village Folk-Tales of Ceylon," II, pp. 18-30, III, 88-91; Chavannes' "Cinq Cents Contes et Apologues," II, p. 378).

In one Sinhalese tale (Parker, *op. cit.* III, p. 194) there is a prince who astrologers say will be spirited away to wander, who is therefore carefully guarded, who is given a toy wax horse and flies off on it to the house of a "flower-mother," the Malay *Ninek Kebayan*:—the beginning of our tale though the rest of the story is quite different. The incident of a prince seeing a fawn run to its wounded dam is found also in the *Hikayat Nakhoda Muda* (J. R. A. S., S. B., 83). The incident of a speaking skull is found in the well-known *Ht. Jumjumah* where a skull addresses Jesus:—the romance was translated in the "Asiatic Journal," 1823. The theft of the flying jackets of a princess and seven attendant nymphs occurs in the *Ht. Malim Deman* (J. R. A. S., S. B., No. 83), and is the plot of a world-wide tale:—Hartland's "Science of Fairy Tales," ch. X; Parker *op. cit.*, II, pp. 344-355. The talisman that can call up cities and people from the inane is common in Eastern folk-lore: Parker *op. cit.* III, p. 130; Natesa Sastri's "Story of Madana Kama Raja," p. 20; "Sagas from the Far East", p. 135. The transformation of a girl into a flower and a gem and of her pursuers into pigs finds parallels in the *Hikayat Sri Rama*, in "The story of Madana Kama Raja," p. 2, and in Swynnerton's "Indian Nights' Entertainments," p. 216; the transformation of a girl into a lotus in Stokes "Indian Fairy Tales," p. 144. A luminous cobra-stone such as lights the cave for our hero is found in many Indian tales:—Frere's "Old Deccan Days," p. 36; Day's "Folk-Tales of Bengal," p. 18; Jataka tale, No. 543, vol. VI, p. 94. So, too, the magic stone that dries up water (Parker, *op. cit.* II, pp. 14-15) and enables princes to visit palaces under the sea (L. Behari Day's "Folk-Tales of Bengal," p. 17). Of the quest for a flower as medicine I have written already (J. R. A. S., S. B., No. 82, pp. 147-8). "In the *Maha Bharata* and *Ramayana* arrows are sometimes represented as returning to the sender, who in such cases was a being possessing supernatural power."



Hikayat Putra Jaya Pati.

BY R. O. WINSTEDT, D. LITT. (OXON.)

So far as I have been able to trace, only two MSS. of this tale exist. One is recorded in Van der Tuuk's catalogue of Malay MSS. in the Library of the India Office, London: his account of it runs as follows:—

“No. 98 small 4 vo. *Ht. Indra Jaya Pati*. The hero son of Kalawandu king of a realm in the west called Langkam Jaya is carried off in his seventh year by a spirit in the form of a tiger to a mountain Mahabiru, where the tiger vanishes after handing him over to Narada to learn magic. When Narada turns himself into a giant and a *garuda*, Indra Jaya Pati alone of his pupils faces him. Finally the hero marries princess Chindra Nur Lela and is made heir apparent by his father under the title of Maharaja Bikrama Indra.”

The other MS., which I have used for this paper, is in the library of the Committee for Malay Studies, Kuala Lumpur, Federated Malay States. The title reads Putra for Indra. A golden horse takes the place of the tiger. The MS. is written on blue ruled foolscap and the colophon records the copy was finished on Monday the 6th Shawal, 1238 A.H. in the year *alif* by Abdulkadir ibni Hussin Mera, Jawi, of Kedah.

The following is a summary of this second MS.:—

Raja Kalawandu ruler of Langkam Jaya is childless. On the advice of astrologers he lavishes alms on religious mendicants till by their prayers his consort conceives and on Monday the 16th day of Rajab, while thunder rolls and a rainbow is seen and rain falls gentle, bears a son. Astrologers prophesy the child will have magic powers and be a mighty prince but a four-legged creature will soon divorce him from his parents till he reaches the age of thirty when he will return famous with many followers. He is named Putra Jaya Pati, and called Putra Jaya Pati Indra.

One day the king takes his son to a field to watch other children play. He falls asleep on his dais and the little prince runs off to play. A genie disguised as a golden steed, approaches the field; the little prince mounts and is carried off into the forest toward a blue hill (Gunong Mahabiru). There the horse, who is descended from the genie Afrit, vanishes after telling the prince he will join in wars with genies, fairies, demi-gods and demons and should climb the blue hill and study magic arts from Begawan Narada. He sets out and meets ascetics who feed him with bananas, manggoes, jackfruit, mangosteens and so on, and take him to the teacher, who foreknowing his advent sends his pupils to escort the prince.

From Narada the prince learns all the magical arts of war, how to cause rain of fire and stone and weapons to descend. He turns a spike of grass (*lalang*) into a caparisoned steed and mounting practices the arts of war with the other pupils, turning the steed back into grass when night falls. One day Narada transforms himself into a large red-eyed demon. All his pupils flee except Putra Jaya Pati who engages him with arrows which turn into fire, rocks, steel, dragons. The demon turns into a roc (*gēroda*): the prince into a harpy (*walimana*). At last Narada reveals himself and the fight ceases. One day thinking of his parents, Putra Jaya Pati weeps and asks leave of his teacher to go home. Narada gives him a magic casket out of which can be invoked four warrior genies with armies. He calls forth the four warriors شگ موك سیره Sang Sētiara. ترا تف سنداوا

to swear fealty to the hero. The hero departs, and traverses plain and forest till he reaches Lake Samandara, where fishes greet him. He eats shell-fish and casts the shells into the water whereupon the shell-fish come to life and laugh. He eats pomegranates from a tree hard by and casts the husks into the lake, whereupon at once they break into flower and fruit that ripens. A voice warns him. He looks and sees a skull. The skull says it was once a man, Bujang Juara, the servant of the hero's sire, who was killed by a demon as he slept under a tree at that spot. The hero pretends to sleep and worsting the demon takes his sword. He comes to a plain with a bright light in the centre and asks an old man Malik Indra whom he meets, what it is. It is the bower of Princess Chindra Nur Lela, sister of Indra Samandara Lela, and daughter of Raja Gangga Wijaya. The princess is betrothed to a mighty fairy prince, Raja Indra Warna, against her own and her parents' will. Malik Indra, guardian of the princess' garden, invites the hero to his house and takes him to bathe where the princess bathes. He spies on the princess through the wall as she comes to the garden. The princess sends a maid to invite the wife of Malik Indra to accompany her to the garden called Kesoma Angsoka. The maid faints at the sight of the hero's beauty. Another maid fetches the old lady who tells who her adopted son really is. The princess falls in love with her description. The old lady goes home.

The princess sends her maid Dang Sangkurana (دشگکوران)

to beg her to detain her adopted son, and invite him to be a spectator of games on the morrow so that she may get a glimpse of him. The hero tells the old lady that if the princess is anxious for a love affair he must see her that night and bids her take a message to the princess:—

*Basahan sambil bērdiri,
Kain pualam di-dalam astana.
Surohan dari-pada tuan putēri
Sēkarang malam beta ka-sana.*

The princess replies:—

*Têlak bêngkawan sa-bêrang sana,
Têrpênggal ka-batang pêlpari.
Jika tuan orang bijaksana,
Silakan abang chuba ka-mari.*

She prepares a feast and gorgeously attired reclines on her couch reading the romance called "Perbu Jangga." Our hero takes a spike of grass and turning it into a flying steed flies and enters her bower. He speaks in verse:—

*Chêmpêdak bêrbuah di-dalam pêkan,
Mêmbêlah-bêlah têngah pematang.
Jika tidak pun di-pêrsilakan,
Mênêngar sudah tuan beta datang.*

The waiting-maids reply:—

*Buloh di-bêlah di-têpi kota,
Mêlpari chêndêrong ka-lubok.
Oleh itu-lah patek pêrsêmbahkan
Dari-pada bêrdiri baik-lah dudok.*

He walks past the princess' curtains, saying:—

*Chêmpêdak di-karang Dang Kêmbayat.
Bêkas bêradu di-dalam bilek.
Siapa gêrangan mêmbacha hikayat
Suara-nya terlantas ke-rumah Malik.*

The princess accosts him:—

*Bunga di-karang oleh dang Mêrdu Lela
Akan suntîng di-dalam chêmbul.
Siapa gêrangan bêrtanya itu?
Madah-nya datang sêrta chumbu.*

They feast and bandy love-verses. At last the hero calls to his steed and returns to Malik Indra's hut. He wanders and finds two genies atop a hill disputing whose shall be a bow and magic arrow, one having found the bow and the other the arrow. The arrow can be called by the archer. Our hero offers to settle the dispute, and discharging the arrow bids them race for it, but he himself recalls it to the bow and takes it to Malik Indra's house. His intrigue with Princess Chindra Nur Lela is disturbed by the arrival of her affianced suitor. The princess' father Raja Gangga Wijaya sends to fetch her but she refuses to go. The hero calls forth the four warrior genies from the casket Narada gave him and they and their soldiers defeat all Raja Gangga Wijaya's men, while the hero toys with his beloved. Raja Gangga Wijaya in despair informs his daughter's suitor. A great battle ensues. One side is ranged in the battle order known as "the writhing dragon" (*naga bêrbêlit*), the other in the order of "the gnashing dragon" (*naga bêrgigit*). Arrows are fired that turn to fire and rain and so on. The hero and his rival change into many-headed many-

handed demons, dragons, snakes. Indra Warna fires his magic arrow Dewa Laksana, which Putra Jaya Pati spits at and turns to water. Putra Jaya Pati fires the arrows given to him by Narada and slays Raja Indra Warna, whose army is broken and flees.

Raja Gangga Wijaya and his son Raja Indra Samandra Lela had refrained from helping Indra Warna because he had started the battle without consulting them.

Putra Jaya Pati feasts with his warrior genies and takes his ease with the princess.

Now a genie who saw the battle had flown and announced the tidings to the forty princes who had been fellow pupils of the hero under Narada. They take leave of their teacher and come in a cavalcade to visit Putra Jaya Pati. Two go and make peace with the princess' father and take the hero into his presence. Putra Jaya Pati weds the princess and is escorted seven times in a seven-tiered car round the palace. All the women run to see him and fall in love with him:—a passage recalling the account of the admiration of women for Hang Tuah, given in the *Sĕjarah Mĕlayu* and *Ht. Hang Tuah*.

The hero takes his bride to the home of his parents, passing on the way a subject kingdom Beranta Pura Nilam Dewata. His father abdicates and he becomes ruler of Langkam Jaya with the title Maharaja Bikrama Indra Dewa or Paduka Sri Sultan Putra Jaya Pati Sifat Ala'u'd-din Shah.

In plot this romance is little more than a short redaction of the *Hikayat Indraputra*. The princeling who astrologers prophesy will be carried off by a four-legged creature, who on his travels eats shell-fish that come to life when the shells are cast back into the water, who is warned by a skull that a fierce demon haunts the lake, who defeats the demon by pretending to sleep, who stays with a gardener and flies by night into a princess' bower, who is helped by warrior genies in his fight for the princess' hand, who returns home at last with his bride and succeeds his father as Sultan—all these episodes occur in the longer romance.

Parallels to the tale from Indian folklore are given in my article on the *Hikayat Indraputra* in this number of the Journal.

The many quatrains in the tale should be of interest to students of the *pantun*.



Hikayat Indra Bangsawan.

By R. O. WINSTEDT D. Litt. (OXON.)

There are six MSS. of this tale at Batavia (van Ronkel's "Catalogue," pp. 191-194), one of which has been published in Romanised Malay by the "Commissie voor de Volkslectuur" and used by me for this paper:—it is, if I may say so, a defect of the "Commissie's" publications that they do not record from which Mss. their texts are printed. There is another Ms. at Berlin (Koenigl. Bibliothek, Collection Schumann V, 21).

Lithographed editions were published in Singapore in 1310 and 1323 A.H.

There is also an Achehnese version (Snouck Hurgronje's "The Achehnese," vol. II pp. 145-7.)

I give an outline of the romance with parallels from Indian tales:—

Indra Bangsawan, ruler of Kobat Shahrial was childless. In answer to prayers of the pious his consort Siti Kendi bore twins, Shah Pri and Indra Bangsawan. With the elder was born an arrow, with the younger a sword. The boys learnt religion from Mua'alim Sufian and studied the arts of war. Their father fears jealousy and strife if he selects openly one of his sons to succeed him. So he tells how he has dreamt of a magic bamboo instrument (*buloh p̄rindu*) and how whoever gets it is fated to be king. The boys go on the quest and are parted in a storm.

Shah Pri comes to a deserted bower and finding a drum beats it. A princess hidden in the drum bids him refrain. He slits the drum and out steps Princess Dewi Ratna Sari. She explains how the country of her father Raja Asik-Asikin has been destroyed by a roc (*gēroda*) and how she and her eight maids in a casket (*chēmbul*) had been hidden in the drum. Shah Pri kills the roc with his arrow and weds the princess.

Meanwhile Indra Bangsawan comes to a cave, enters it and finds a garden with a house inhabited by a demon (*raksasa*), who receives him hospitably. The demon tells him he is in the country Anta Beranta ruled by Raja Kabir but subject to a monster, Buraksa, who claims any child born to Raja Kabir. Nine princes are suitors for Ratna Kemala Sari, the daughter of Raja Kabir, who will give her to him who can slay Buraksa and brings as evidence of his death the seven eyes and seven noses of the monster. The friendly demon gives Indra Bangsawan a magic garment which will change him into any shape, and a charm (*isharat*) which will take him to Anta Beranta. He chooses the guise of a

curly-haired jungle boy, and is made the slave of Ratna Kemala Sari, who calls him Hutan, "Jungle," and gives him two goats. She relates how she is fated to be freed from Buraksa by Indra Bangsawan and how she is a cousin of Dewi Ratna Sari, whom Shah Pri has rescued from a roc.

Ratna Kemala Sari falls sick. Astrologers declare that only the milk of a tigress that has just whelped will cure her eyes. Hutan pours goat's milk into a bamboo and hangs it on a tree; then resuming his former shape he sits beside the tree. The nine princely suitors see the vessel of milk and ask what it is. "The milk of a tigress who has just whelped," says Indra Bangsawan. "The owner enjoined that it may not be sold but given only to any person who may be willing to have his thigh branded." The nine princes submit to branding, and get the milk. But the medicine-men declare it is only goat's milk! Meanwhile the friendly demon (*raksasa*) gets a tigress' milk for Indra Bangsawan. In the guise of Hutan he takes it to the princess and tells how hunting for his straying goats he had found it hanging from a tree. The sight of the princess is restored.

The time comes to deliver princess Ratna Kemala Sari to Buraksa. Her father builds a bower outside the country with an iron tank beneath its steps, as a place where Buraksa can drink water impregnated with iron and the nine suitors can fight for the princess. Hutan follows his mistress and she changes his name to Kembar. He gets his friendly demon to help him slay Buraksa. The demon gives him a black (*hijau*) horse, Janggi Harjin, whereon Indra Bangsawan rides as a prince to his mistress' bower. Instructed by the demon, he ties the bridle of his horse to the water tank so as to noose Buraksa when he comes to drink, and bids the horse kick the monster. He pretends he is a nameless wanderer come to see the nine suitors slay Buraksa. But he takes the terrified princess in his arms when Buraksa arrives. Buraksa is noosed. Indra Bangsawan slays the monster, cuts off his seven noses and seven eyes and rides away. The nine suitors come and finding eyes and noses gone, cut off ears, scalp, fingers, hands and feet as evidence of their prowess. Indra Bangsawan having reentered his magic garment arrives with the eyes and noses of the monster, modestly saying he had kicked against them in the jungle and taking them for the skin of an ant-eater (*tenggiling*), had brought them for the princess to burn in her incense. The prince gives his daughter to Si-Kembar in return for his two acts of prowess. Si-Kembar pretends still to be a jungle slave and refuses to marry her.

The nine suitors attack Anta Beranta, sending a rude letter which read by the priest Shaikh Aladin rouses the ruler's ire. Si-Kembar hurries by night to the friendly demon for sword and steed. At dawn "before the stars have faded, or beasts wake to seek their prey or birds start to preen their feathers" the armies

meet. Indra Bangsawan saves the day, charging "like a scorpion into fire." Then he vanishes. The next day he saves the fight again, and again vanishes. No one knows who he may be. Si-Kembar is missing from the palace. They guess he is the hero. Raja Kabir is hard pressed while Si-Kembar stays five days at the friendly demon's house. At last Raja Kabir alone is left in the field. Finally Indra Bangsawan comes, escorts him into the fort and alone faces the nine suitors whose men have all fled. They recognize him as the prince who sold the goat's milk. He reveals his name. They beg for pardon and that he may not reveal the shame of their branding.

Indra Bangsawan visits the friendly demon, dons his magic raiment and returns to the princess as Si-Kembar. Raja Kabir asks why their marriage is not consummated. The princess says Si-Kembar is unwilling. The kathi sentences both to be imprisoned in a cage in the palace. In the night Si-Kembar (the jungle boy whose race never bathes!) feels hot and uses the princess' bathing water, slipping out of his magic raiment. The princess marvels and asking to be released tells her father. Her father bids her pretend to sleep and seize Si-Kembar's magic raiment. The device succeeds. She recognizes in Si-Kembar the prince who slew the monster (*buraksa*). He is taken to Raja Kabir but pleads for three days' grace to visit the friendly demon. He calls his magic steed which comes miraculously. The princely demon gives him a magic stone, which will give him whatever he desires, even a kingdom and people under the command of Dekar Sari and Dekar Dewa. Indra Bangsawan journeys to Anta Beranta Permana where he orders the two Dekars to make him a kingdom with a court and people and a bower with a bridge of gold up to the bower of Dewa Ratna Kemala Sari, and to inform her father that on the morrow when the nine princes have come the wedding feast will begin. In due course Indra Bangsawan and his bride are enthroned on a seven-tiered stand (*pancha-persada*) and taken in procession and married by Kadzi Fa'alu'd-din. The bride is magnificently arrayed:—

bêrbaju kësumba murub pinar emas, bêrurap-urap sari jayeng kêkalun, bêrpêdaka susun têlor, bêrtali leher tiga bêlêt, bêranting-anting kasua janoh pêrbuatan Sailan, bêrchin chin pêmata di-apit dêngan intan ikatan Sailan, bêrgêlang tiga sa-bêlah pêrbuatan Pariaman, bêrkilat-kilat bulu naga suir, bêrsêkar suhun, bêrsifa' alis manis an bêrchêlak seni bibir-nya merah bêrtêmu urat. dan gigi-nya supêrti dêlîma mêrêkah lidah-nya sapêrti chêrmin.

Indra Bangsawan pretending to visit his goat, goes and begs the magic bamboo instrument (*buloh pèrindu*) from the friendly demon and takes leave of his parents-in-law, purporting to take his bride to visit his own parents, and his brother Shah Pri with his bride Dewi Ratna Sari. But by the magic of a sister of the monster (*buraksa*) whom Indra Bangsawan had slain, he and his consort fall sick unto death.

Now one night Shah Pri dreamt he met Indra Bangsawan on the top of a high mountain. Next day he sets out to find him, taking a magic stone which dipped in water renders it efficacious to cure folk sick unto death. Disguised as a shaikh he enters Anta Beranta Permana and after curing Indra Bangsawan hands him magic water to cure his bride. In gratitude Indra Bangsawan bestows on Shah Pri his own magic stone that can create a kingdom. Accompanied by the nine princes, they set out and visit Dewi Ratna Sari and the hero's parents. Indra Bangsawan presents the magic bamboo instrument to his father who abdicates in his favour. All live happily ever afterwards.

Princes being born, one along with an arrow the other with a sword, find many parallels in Malay and Indian literature (Winstedt's "Literature of Malay Folk-lore," p. 39). The incident of a land destroyed by a roc (*garoda*) occurs also in the *Hikayat Maulim Dewa* (ed. Winstedt and Sturrock, pp. 9 and 94-97 and Snouck Hurgronje's "The Achehnese," vol. II, p. 127.)

In his paper on the Romance of the Rose in Malay literature (*Tijds. v. Ind. T. L. en Vrk., deel LIV, afd. 5 and 6*) Professor van Ronkel has pointed out how several episodes, the search for the magic bamboo and for a medicine, and the incident of the branding, occur also in the *Hikayat Gul Bakawali*, a Malay Romance from the Hindustani version of 1792 A.D. by Nihal Chand (Garcin de Tassy, *Histoire de la littérature hindoue et hindoustanie*, tome II, p. 468) of which there is also a Ceylon folk version (Parker's "Village Folk-Tales of Ceylon," vol. I, No. 22, pp. 173-177). Again in the *Hikayat Pēkar Madi* (van Ronkel's Catalogue of Malay MSS. at Batavia, pp. 167-171) occur the episodes of branding and of a quest for medicine for a prince. There are many parallels in Indian folk-lore for incidents in the *Hikayat Indra Bangsawan*. In Knowles' "Folk-Tales of Kashmir" (2nd ed., p. 365) a prince disguised as a gardener is married by a princess. Her relations jealous at this arrange a hunt and leave the hero only a vicious mare to ride. He reached the jungle first, shot jackal, bear and leopard, and cut off the tail of the first, the nose of the second and the ear of the third, which he produced when the others who had shot no game exhibited the three corpses as evidence of their prowess (Cf. an episode in the *Hang Tuah*, J. R. A. S., S. B. 83, p. 117). In Mary Stokes' "Indian Fairy Tales" (p. 41) a prince born with a removable monkey-skin has it burnt by his wife and retains his human form: (p. 130) a similar hunt is arranged, the prince disguised as a labourer brands the backs of the six princes, who had found no game and begged a meal from him, and afterwards exposes them.

Hikayat Parang Puting

By R. O. WINSTEDT D. LITT. (OXON.)

All the recorded MSS. of this tale are in English libraries. There are two copies in the library of the India Office and one in King's College Library (*J. R. A. S., S. B.* No. 82, 1920 p. 156; *Essays relating to Indo-China*, 2nd series, vol. II, p. 53). Mr. R. J. Wilkinson has given a MS. of it to Cambridge University Library. The present paper is founded on a MS. in the possession of the Committee for Malay Studies, Kuala Lumpur. This MS. is modern (1920 A.D.) written in Singapore but exhibiting in *patek apa* to express the plural "all your servants" traces of a Kedah copyist: it fills 139 pages of a note-book.

There are no references to Allah or Islam in the tale. Betara Brahma is the Supreme God and the world is governed by the "high great gods" (*dewata mulia raya*). There is mention of a *silambara* (Skt.) where a princess chooses a husband from a crowd of rivals.

There are only two quatrains in the tale, uttered by the hero when he is on the prince's raft beset by dragons:—

*Dian dua, damar pun dua,
Tanglong di-rumah Dewa Laksamana.
Diam juga, sabar-lah jua,
Ada untong tiada ka-mana.*

*Enche' Baya sêlëndang batek,
Pandai mēngarang bunga di-ukir.
Adohai tuanku! junjongan patek!
Jangan-lah tuanku bērbanyak fikir.*

The process by which a pleasance is created by a magic stone is described as putting the stone exposed on the spot where the pleasance is wanted: by taking it up the hero causes the pleasance to disappear (*Maka Mambang Dewa Kēindēruan pun mēngambil guliga hikmat-nya yang di-tāmbangkan-nya pada taman itu: maka taman itu pun ghaib-lah dēngan sa-kētika itu juga.*)

There are numerous Indian parallels for the main plot, tales of a prince who buys a snake, a parrot and a rat (*Jataka*, No. 73. vol. I, p. 178) or kitten and snake, or cat, otter, rat and snake, and is taken in all the tales by the snake to his father the king of the snakes who gives the hero a ring that will create a palace and kingdom and bring him a royal bride. (*The Story of Madana Kama Raja*: Natesa Sastri, p. 20; Bodding's *Folklore of the Santal Parganas* p. 88; Thornhill's *Indian Fairy Tales* p. 67; Mrs F. A. Steel's *Tales of the Punjab*, p. 185; Knowles' *Folk-Tales of Kashmir*, 2nd ed., p. 20; Parker's *Village Folk-tales of Ceylon*, vol. III, pp. 127-131.)

The incident of a dragon growing too big for a river occurs also in the Perak folk-tale *Raja Budiman* (ed.—Clifford, Singapore, p. 5) and in the Achelinese *Hikayat Banta Ahmat* (Snouck Hurgronje's "The Achelinese," vol. II, p. 142).

The following is the outline of the story:—

Prince Dewa Laksana Dewa ruled in fairy-land. His consort Chahaya Khairan bore a beautiful daughter Putri Langkam Chahaya. One day when she was plucking flowers in the pleasance, a fairy (*dewa*) Mambang Indra Segara espied her and fell in love. He cast a spell on a grass-hopper and sent him to fly and settle on the princess and awaken in her thoughts of love. Then wearing his creese and burning "as if he would set fairy-land afire," he entered the pleasance. The princess sent a maid to call him. His hot words of love call forth her reproof and she bids him seek her parents. He flies away in dudgeon and resolves to bring a sickness upon her. He is sleepless till the dawn when "the cocks crowed, the birds of paradise (*chēnderawaseh*) sang in the heavens, parrots sang in the *angsoka* trees, paroquets on the boughs of the *nagasari*, mynabs on the *chēmpoka* trees and a drizzle of rain made all the flowers in the garden bloom."

After waiting seven days he charms (*puja*) a frangipanni flower and throws it into the bosom of the princess as she and her maids are picking flowers. She becomes pregnant. Her father curses her and changing her into the form of an ugly mortal woman casts her down into the world. She bears a child in the forest. She lives in an abandoned hut, at first begging rice and cooking-pots and later pounding rice for hire. One day in her absence, while her boy is playing under the house, a stranger offers to sell him a young snake for half a coconut-shell full of rice. He buys the snake and makes it his plaything day and night. Another day he buys a young hawk and later a white rat. The snake grows the horns (*chula*) and claws of a dragon. The boy rides about on the dragon's back and other children give fruit in return for permission to play with the hero. The harbour-master (*shahbandar*) hears of it and sends for the boy who goes riding on his dragon with the young hawk flying above his head and the white rat following. He is given fruit and rice and raiment. The Raja of the country hears of the marvel and sends for the boy to come on his dragon. He bestows on him rice, raiment and two slaves (*sahaya*).

One night the dragon who has grown so big he cannot bathe in the river without flooding the country decides to run away to the lake where his father and himself live. His little master follows and overtakes him. The dragon's grandsire, a terrible beast, gives him a ring out of his mouth which in a moment can provide food for a thousand men. He bids the boy call upon his whilom plaything if ever he needs his help. The hawk and the white rat take leave of their dragon playmate.

The hero's mother is in great distress at the disappearance of her son. On his return he loses his way in the forest. His dragon's granddam, angry at hearing that the magic ring has been given to the boy, sends a warrior dragon to ask for it back in return for a magic stick. The dragon finds the boy. When he goes to bathe in a pool, the boy seizes the stick and striking the pool thrice prevents the dragon from leaving it. He hurries away, taking the magic stick. He hears the sound of men felling in the jungle and going near espies a masterless knife (*parang puting*) felling a tree. At sight of him the knife runs off to a hut where an old man lives. The hero spends the night at the hut and shaking his magic stick provides food for them both. The old man gives him in return for the magic stick his knife which will obey all behests and can enlarge itself and fight foes. Our hero reaches home and goes to pay his greeting to the harbour-master. Always he provides cooked food for his mother and himself by means of the magic ring.

Now the ruler of the country, Raja Indra Mahadewa was childless. He went to the island Chahaya Permama (فرمان) to pay vows that he may get an heir. He and his consort bathed in a lake on the island, prayed and burnt incense. Betara Kala heard the prayer and dropped a manggo in the king's path as he went up from the lake. There was no manggo tree in the neighbourhood. The king accepted it as a sign, and he and his wife partook of the fruit. On their return a dragon bars the bark's way and the king induces him to desist by promising that his child if a girl shall be the dragon's wife, if a boy his friend. The queen bears a daughter "Princess Mengindra, First Day of the Moon." The dragon king sends a lobster to see if the king has got a child. The lobster hiding at a royal landing-stage hears maids grumbling at having to carry up bathing water for the princess. He bids a prawn enter one of the water-vessels and report on the beauty of the princess. The lobster conveys the tale of her loveliness to the dragon king. The dragon king sends one of his warrior dragons to block the estuary of the country of Raja Indra Mengindra and flood the land so that he may remember his promise. A warrior goes down to the estuary and questions the dragon. The king asks for three months' grace, wherein to prepare for the nuptials. His viziers advise him to offer his daughter's hand to whosoever can worst the dragon king. The king sends missives accordingly to the neighbouring princess and all accept the offer. He puts his daughter on a raft in an iron chest and all the princes who have accepted the challenge on other rafts and sends them down to the estuary where the dragon waits. Leaving the hawk and the white rat to look after his mother, our hero takes his magic ring and knife and goes aboard the princess' raft where he is allowed to stay. At the estuary the waiting dragon scatters the rafts of the princes with his breath and bids our hero leave the raft of the princess.

The princess promises him her hand if he can worst the dragon suitor. He bids his magic knife decapitate the dragons who approach the raft. The princess and her maids are hungry. The hero's magic ring provides food. He invokes his young hawk and all the hawk tribe fly off with the raft back to the shore, pecking the eyes of all dragons that approach. The king of the dragons sends a huge warrior dragon who swallows the raft with all its crew. The hero by means of his magic ring provides food and lamps. The hawk flies and tells the white rat of his master's predicament. The white rat seeks Mambang Indra Segara who comes with his forces. A great battle follows. The dragons kill the fairy warriors with the blasts and fires of their nostrils. The fairies slay the dragons with arrows. Mambang Indra Segara bids the young hawk enter the dragon's belly and see if his grandson and the princess are alive. The young hawk protests that he is unable and the white rat enters and finds them still alive. The hero bids him tell the fairies to attack the other dragons. He orders his knife to cut the heart of the dragon that has swallowed them and then to cut through the dragon's body and release them. Mambang Indra Segara sends Mambang Ratna Dewa to fetch his son whom he names Mambang Dewa Keindraan.

Mambang Indra Segara creates a country and castle by means of a magic jewel. He provides food by means of a ring. Their army is put under four leaders, Mambang Ratna Dewa, Mambang Gangga Dewa, Mambang Beranta Dewa and Dewa Keindraan. But when a great dragon (*Naga Géntala*) arrives they are so hard pressed that the hero hugging his body invokes his whilom dragon playmate, Naga Ratna Gempita, to their aid. Naga Géntala cannot prevail and returning to the dragon king, Raja Gangga Indra, advises him to make peace. Raja Gangga Indra and all his warriors enter the fray. Ratna Gempita attacks him. The rival dragons turn themselves into crow and hawk, ape, (*běrok*) and tusked monster (*gěrgasi*), harpy and roe. Ratna Gempita bites the neck of the harpy and so Raja Gangga Indra dies. Ratna Gempita becomes king of all the dragons. He tows the raft of the princess up-stream. The hero's father retires to fairy-land, leaving him the magic stone which can make cities and bidding his son call him at need. The hero leaves the princess' raft when it approaches the royal settlement. All the princely suitors for her hand seeing her raft drifting on the tide rush and welcome her. They pretend they have saved her from the dragon. Her father builds a dais on a plain where the princess shall sit and choose the prince she favours (*dí-buat silambara dí-těngah padang*, p. 110) by throwing him a posy of golden flowers. All the princes, all the chiefs and people of the country, even the halt and blind pass before the princess but she does not throw the posy. At last the hero is told to pass before her. He passes carrying his magic knife, the hawk flying above his head, the white rat following him. The princess throws the golden flowers on him. The 99 princes demand that the marriage shall take place after a procession to the

palace (*bértandang*), hoping to kill the bride-groom on the way. By means of his father's magic stone the hero creates a city and palace and castle. The white rat, who is really Raja Indra Bayu in animal shape, goes to fairy-land and invite: Mambang Indra Segara and his younger son Mambang Ratna Dewa to the wedding. The harbour-master comes and with limbs and beard trembling and face as "white as a peeled mushroom," sees the city and palace the hero has created, understands he is a fairy prince and does obeisance. The princess' father hears music and sends viziers to see what it portends. They are fed by means of the magic ring and return and tell their master of the city and palace and its furniture. The king sends his future son-in-law word that the 99 princes will attack him during the wedding procession. The hero begs him not to prevent them. Mambang Indra Segara descends to earth on a magic carpet (*hampuran kēsaktian*). The hero's mother sorrows over her mortal form. The young hawk who is really a fairy Darkasila (درکاسیل) flies to fairy-land and pleads for her with Dewa Laksana Dewa, who with his consort descends to earth for his grand-child's wedding after begging Dewa Betara Brahma to restore to his daughter her fairy shape. On a moonlight night Betara Brahma descends and sprinkling Princess Langkam Chahava with golden flowers and rainbow water (*ayer pancha rona dari kēyangan*) restores her fairy beauty, addressing her as "Blue Lotus." The hero goes to the wedding on the flying carpet. Darkasila and his hawks fight the followers of the 99 princes. After the wedding Dewa Laksana Dewa and his fairy followers fly up to fairy-land on a magic carpet. A marriage is arranged at last between the hero's mother and Mambang Indra Segara. The hero picks up his magic stone. City and castle vanish. He and his bride and her father set out for home. The 99 princes waylay them but let the father pass. By his magic stone the hero creates a pleasance. His magic knife fights the princess. Fifty of them surrender and later fight the remaining 49 but fail to worst them whereupon the hero calls his dragon friend Ratna Gempita to capture them:—the magic knife would kill them and the hawks blind them. All the princes who escape death acknowledge the hero's suzerainty. The hero releases the hawk and the white rat to return to fairy-land, whence they visit him often. He rules the kingdom of Indra Mahadewa happily with his consort.



Penang Malay

BY A. W. HAMILTON.

To any one whose knowledge of Malay has been acquired from the various text books on the subject, with their correct orthography, it comes as rather a shock to find, on arrival in Penang, that he is unable to follow even the simplest conversation between two natives of the place, and that his own Malay, although understood, is not the colloquial of the Northern Settlement.

Before long, however, the stranger begins to observe that his difficulties lie in well defined directions; and that the body of the language remains much the same as that to which he has been accustomed, so that after a few months the newcomer should have little trouble in conversing in the same strain as his hearers. The differences between the so-called "Penang Malay," which is really the Malay of Kedah altered slightly to suit the needs of a cosmopolitan town population with a large element of Southern Indians from the Madras Presidency, and "Singapore Malay," which is a similar corruption of the speech of Johore to meet the requirements of a busy mart dealing with many races and much influenced by its proximity to Java, come mainly under six heads:—

1. Harshness in pronunciation.
2. The alteration of a final "l" into "i".
3. The clipping of certain common words.
4. The use of peculiar idioms and idiomatic constructions.
5. The use of words not in common use elsewhere, or confined in use to Kedah.
6. The inclusion of words of Indian origin sometimes to the exclusion of native Malay words.

1. Dealing with the above seriatim, in Johore Malay the pronunciation is always soft, especially that of a final syllable, so much so indeed that a final *a* is never pronounced as the long *a* in *father* but dies away as the sound of the *er* in the same word, so that *father* could be transcribed as *fā tha* to a reader of romanised Malay in Johore. In Penang speech on the other hand the letter *a* is always given its full sound of a long *ā* or *ah* even at the end of a word, so that *apa* (*ā pa*) "what" with its mute final *a* in Johore, becomes *ā pā*; *mā na*, "where" becomes *mā nā*; *dī a* "he" becomes *dī ā*; *rā ja* "a king" becomes *rā jā*. In Johore the letter *r* though pronounced distinctly is never rolled as in Javanese and when appearing as a final is pronounced ever so slightly, so that *kotor* "dirty" could almost be written as *ko tuw*, and *akar* "a root" *ā kā*

both *a*'s being long. In Penang the letter *r* though not rolled is pronounced in a peculiar gurgling manner at the back of the throat except it be a final when it is pronounced with a steely ring which often makes it difficult to distinguish from a final *k* which as elsewhere is always enclitic.

Ayer "Water" is thus pronounced as if it were *ayak* "a sieve;" *nyior* "a coconut" as if it were spelt *nyiok*; *bochor* "leaky" as if it were spelt *bochok*; *dëngar* "to hear" as if it had been *dëngak*; *ajar* "to teach" as if it were spelt *ajak* "to invite." *Apa khabar?* "What's the news? How are you?" is often heard as *Apa habak* the initial *kh* being changed to *h* for assonance in conjunction with the alteration of the sound of the final *r* to *k*. Words ending in the letter *r* but having *i* as the penultimate letter on the other hand are pronounced as if the final syllable were *iak* and not *ir*.

<i>Pikir</i> , "to think"	becomes	<i>pikiak</i> .
<i>Pasir</i> , "sand"	„	<i>pasiak</i> .
<i>Kikir</i> , "a file"	„	<i>kikiak</i> .
<i>Hampir</i> , "near"	„	<i>hampiak</i> .
<i>Gambir</i> , "gambier"	„	<i>gambiak</i> .

Another peculiarity of Penang pronunciation is the indistinct utterance of ultimate syllables ending in *s* which are shortened and articulated quickly, resulting in the letter *s* being sounded as if it were *ih*, so that *bëras* "rice" sounds like *bëraih*; *pëdas*, "pungent" as *pëdaih*; *lëkas*, "quickly" as *lëkaih* and *atas*, "above" as *ataih*. Similarly *bagus*, "fine" is pronounced *baguih*; *bungkus*, "a bundle" as *bungkuih* and *mampus*, "to die" as *mampuih*: whilst words ending in *s* merely change the *s* into *h*; *tulis*, "to write" being pronounced as *tulih*; *baris*, "a line" as *barih*; *këris*, "a dagger" as *kërih*: and *chëngis*, "crosslooking" as *chëngih*.

2. The alteration of a final *l* into *i*.

One of the most puzzling features of the Penang dialect is the substitution of an *i* for a final *l*, whereby even common words appear strange under their new guise, and in a few instances have to be recognised from the context as being different to the words similarly pronounced but spelt differently; instances in point being *bantal*, "a pillow" which is pronounced *bantai* and is liable to be mistaken for *bantai*, "to thrash, to slaughter" and *tangkal*, "a charm" pronounced *tangkai* and liable to be confused with *tangkai*, "a stem." In those cases where the penultimate letter is *i* the sound of the final *l* does not become *i* as usual but is elided and the sound of the penultimate *i* is changed to *e* so that *katil*, "a bedstead" is pronounced *kate*.

The following list gives the majority of common words ending in *l* and their pronunciation.

PENANG MALAY.

<i>Ajal</i>	allotted span of life	<i>ajai</i>
<i>Akal</i>	intelligence	<i>akai</i>
<i>Aral</i>	hindrance	<i>arai</i>
<i>Asal</i>	origin	<i>asai</i>
<i>Awal</i>	early	<i>awai</i>
<i>Bachul</i>	spiritless	<i>bachoi</i>
<i>Batal</i>	to repeal	<i>batai</i>
<i>Bakul</i>	a basket	<i>bakui</i>
<i>Bawal</i>	a pomfret	<i>bawai</i>
<i>Basal</i>	a jaundiced swelling	<i>basai</i>
<i>Bangsal</i>	a shed	<i>bangsai</i>
<i>Bëtul</i>	correct	<i>bëtui</i>
<i>Bëbal</i>	stupid	<i>bëbai</i>
<i>Bisul</i>	a boil	<i>bisui</i>
<i>Bilal</i>	a muezzin	<i>bilai</i>
<i>Bogil</i>	naked	<i>boge</i>
<i>Botol</i>	a bottle	<i>botoi</i>
<i>Chëngal</i>	the name of a wood	<i>chëngai</i>
<i>Changkol</i>	a mattock, a hoe	<i>changkoi</i>
<i>Chungkil</i>	to pick out with a pointed instrument	<i>chungke</i>
<i>Dajal</i>	wicked, mischievous	<i>dajai</i>
<i>Dodol</i>	a kind of sweetmeat	<i>dodoi</i>
<i>Dogol</i>	hornless	<i>dogoi</i>
<i>Ëndul</i>	a hammock	<i>ëndui</i>
<i>Gatal</i>	itchiness	<i>gatai</i>
<i>Gasal</i>	odd	<i>gasai</i>
<i>Gëmpal</i>	stout	<i>gëmpai</i>
<i>Gomol</i>	to strive as in wrestling	<i>gomoi</i>
<i>Halal</i>	legitimate	<i>halai</i>
<i>Hemul</i>	officious intrusion	<i>hemui</i>
<i>Ikal</i>	curly	<i>ikai</i>
<i>Janggal</i>	discordant	<i>janggalai</i>
<i>Jambul</i>	a fruit	<i>jambui</i>
<i>Jëjal</i>	to cram into a hole	<i>jëjai</i>
<i>Jërëmal</i>	a fishing stake	<i>jërëmai</i>
<i>Jëngkal</i>	a span	<i>jëngkai</i>
<i>Jual</i>	to sell	<i>juai</i>
<i>Kapat</i>	a ship	<i>kapai</i>
<i>Katil</i>	a bed	<i>kate</i>
<i>Këkal</i>	lasting	<i>këkai</i>
<i>Këdal</i>	a black discolouration of the skin	<i>këdai</i>
<i>Këpul</i>	1/16 gantang	<i>këpui</i>
<i>Kënal</i>	to know a person	<i>kënai</i>
<i>Kidal</i>	left handed	<i>kidai</i>
<i>Mahal</i>	expensive	<i>mahai</i>
<i>Mëngkal</i>	half ripe	<i>mëngkai</i>
<i>Nakal</i>	mischievous	<i>nakai</i>
<i>Pangkal</i>	beginning	<i>pangkai</i>
<i>Pasal</i>	reason	<i>pasai</i>
<i>Panggil</i>	to call	<i>pangge</i>

<i>Pèdal</i>	the gizzard	<i>pèdai</i>
<i>Pèjal</i>	firm of flesh	<i>pèjai</i>
<i>Pikul</i>	to carry on the shoulder	<i>pikui</i>
<i>Pukul</i>	to hit	<i>pukui</i>
<i>Rugul</i>	to rape	<i>rugui</i>
<i>Sambal</i>	condiments	<i>sambai</i>
<i>Sakal</i>	to knock against	<i>sakai</i>
<i>Sangkal</i>	to deny	<i>sangkai</i>
<i>Sèsal</i>	to regret	<i>sèsai</i>
<i>Sèndal</i>	to wedge	<i>sèndai</i>
<i>Simpul</i>	to tie	<i>simpui</i>
<i>Sial</i>	ill omened	<i>siai</i>
<i>Takal</i>	a pulley	<i>takai</i>
<i>Tampal</i>	to patch	<i>tampai</i>
<i>Tanggal</i>	loosening	<i>langgai</i>
<i>Tangkal</i>	a talisman	<i>langkai</i>
<i>Tangkul</i>	a net lifted by a lever	<i>langkui</i>
<i>Tètal</i>	thick (compressed)	<i>tètai</i>
<i>Tèbal</i>	thick	<i>tèbai</i>
<i>Timbul</i>	to float	<i>timbui</i>
<i>Tinggal</i>	to leave behind	<i>linggai</i>
<i>Tumpul</i>	blunt	<i>tumpui</i>
<i>Tunjai</i>	to thrust downwards	<i>tunjai</i>
<i>Wakil</i>	an attorney	<i>wake</i>

3. The clipping of certain common words.

The number of words clipped is small but as several are words in everyday use, it is as well to master them straight away.

The most important of these words are,

<i>mari</i>	"to come," which is shortened to <i>mai</i>
<i>pèrgi</i>	"to go" which is shortened to <i>pi</i>
<i>Saya baru mai</i>	"I have just come"
<i>Hang pi-lah</i>	"Go away!"

Similarly *ini* "this" and *itu* "that" are usually contracted to *ni* and *tu* which also serve as contractions for *sini* "here" and *situ* "there," the last named being also sometimes represented by *nu*.

"There he is"	<i>nu dia.</i>
"Do you want this or that?"	<i>hang mahu yang ni-kah yang tu?</i>
"Here it is."	<i>ni dia.</i>
"That chair."	<i>kèrosi tu.</i>
"Like this."	<i>macam ni.</i>
"Like that."	<i>macam tu.</i>
"About this matter."	<i>pasai ni.</i>
"Re that."	<i>pasai tu.</i>
"Who is that?"	<i>sapa tu?</i>

The contractions *ni*, *nu*, and *tu* with the addition of the word *dia*, "he" or "she," contracted to "*de*" form the new combinations of *deni*, "this person or party" i.e. *dia ini*, *detu*, "that person or party" i.e. *dia itu* and the vaguer *denu*, "those people."

"This party would like to come to a settlement but the others don't want to." *Deni suka nak buat sëlèsai, denu ta mahu.*

"Why did you strike him?" *Awat hang pukui detu?*

The word *téntang* "facing," when contracted to *tang* is combined with *ní* "this" and *tu* "that" to mean "in this or that spot or place" :—

I am in pain about this spot. *Saya sakit tang ní*

Go and put it over there. *Hang pi laroh tang tu.*

I don't know where it has got lost. *Tang mana dia pi hilang pun ta' tahu-lah.*

He was sitting at the table *Dia dudok tang meja.*

That portion is alright but this is defective *Tang tu bagus dah, tapi tang ni-lah nampak chachat.*

The word *ikut* "to follow" when used in the sense of "along" or "through" is usually contracted to *kut* (*kot*), thus:—

"By which road did you come?" *Hang mai kot jalan mana?*

"The thief came through by the back" *Penchuri tu masok kot bëlakang.*

The verb *dudok* "to sit, to dwell," is frequently shortened to *dok*:—

"Where do you live, sir?" *Tuan dok di-mana?*

"Pray remain seated. I am going." *Dok-lah. Saya nak pulang.*
Dok-lah is a common substitute for our "good-bye."

The final *h* in the intensifying article *lah* is not pronounced in Penang, the word being enunciated as *la* with a long *ā* sound.

Sudah "to finish," naturally becomes *dah*:—

"He has gone." *Dia dah pi.*

"He has finished doing it." *Dia buat, dah or diu dah buat.*

The more usual query in Singapore of *měngapa* "why," or *apa sěbab* "for what reason," is almost invariably expressed in Penang by the one word *awat*, a contraction of *apa buat* "what's to do" etc., though *pasal apa* "for what reason," pronounced as *pasai apa*, is also frequently heard.

"Why were you dismissed?" *Awat hang kěna buang kěrja?*

"Why is the train late?" *Awat kěreta api ni lambat?*

"Why did you not do it?" *Awat ta' buat?*

"What do you want? What is the matter?" *Awat?*

The usual abbreviations of *ta'* for *tidak*, *nak* for *hěndak* and *ta'andak* for *ta' hěndak* hold good in Penang as elsewhere:—

"I don't want it" *Saya ta mahu or Saya ta'ndak.*

"Where are you going?" *Nak pi mana or ka-mana? Nak ka-mana?* is a common greeting to a person met on the road, usually replied to by *ta' pi mana* "I am not going anywhere in particular;" or *saja aku běrjalan*, "just out for a walk," or some definite statement of fact as, *nak pi kědai*, "am going shopping."

Dak is used for *tidak* as a negation.

"Did you do it? No." *Hang kah-buat? Dak. Oe!*

Oe is more or less a meaningless exclamation like *Oh!* usually denoting grief or pain as in the phrase *Adoi mak oe!*, "Alas mother oh!" but in hailing or in reply to a hail merely means "ahoy" or "yes."

Boat ahoy! *sampai oe!*

Oh brother Mat! *O, bang Mat!* (answer) *Oe*, "Yes."

In connection with *dak* is a little phrase *buat dak* meaning "to do" i.e. "to act (as if) nothing (had happened)"; "to appear quite unconscious of what" is afoot (*buat la' tahu*).

"When I passed he was gambling at the side of the road but I acted as if I had not noticed anything." *Waktu saya lalu dia dok main judi di-tēpi jalan tē tapi saya buat dak.*

The usual abbreviations of the terms for kindred are in use as

<i>bang</i>	for	<i>abang</i>
<i>kak</i>	"	<i>kakak</i>
<i>pak</i>	"	<i>bapa</i>
<i>tok</i>	"	<i>datok</i>
<i>che'</i>	"	<i>ēnche'</i>

and the less common

<i>nek</i>	for	<i>nenek</i>
<i>dek</i>	"	<i>adek</i>
<i>nak</i>	"	<i>anak</i>

which are used only in certain phrases.

Bang is used in conjunction with a name as *bang Tam* = *abang Itam*. "brother Itam," the brother not being a sign of relationship but of respect.

"Which one do you want brother Din? This or that? *Yang mana bang Din mahu? Yang ini-kah, yang tu?*

It is also sometimes used in addressing a stranger as

Bang oe, saya nak tumpang bērtanya di-mana rumah si-anu?

"Oh! brother might I ask you where is so and so's house?"

It should not be forgotten that in Malay, titles of relationship are used to express not only actual relationship but the relative rank of the persons addressed or spoken about as compared with the speaker. So that *kak Jah* does not mean "my sister Khadijah" but "Jah who is of the relative rank of *kakak* or elder sister to me." Further, *abang*, *adek*, *kak* and *tok* are used as polite forms of address to strangers according to their age and sex to avoid using the pronoun "you" which is considered rude.

There are also a few words which are shortened to the extent of a syllable.

<i>tuala</i>	a towel	<i>tola</i>	also	<i>tuala</i>
<i>kuala</i>	an estuary	<i>kola</i>	"	<i>kuala</i>
<i>biasa</i>	accustomed	<i>besa</i>	"	<i>biasa</i>
<i>kuasa</i>	power: authority	<i>kosa</i>	"	<i>kuasa</i>

<i>sěnnyp</i>	"to be or become silent "	<i>sěngap</i>
<i>biawak</i>	"monitor lizard "	<i>bewak</i>
<i>sěntul</i>	"an edible fruit "	<i>sětul</i>
<i>aniaya</i>	"to do an injustice "	<i>naya</i>
<i>buaya</i>	"a crocodile "	<i>boya</i>
<i>suara</i>	"a voice "	<i>sora</i>
<i>siapa</i>	"who "	<i>sapa</i>
<i>tiarap</i>	"face downwards "	<i>terap</i>
<i>pělihara</i>	"to nurture, bring up "	<i>plera</i>
<i>chěndana</i>	"sandalwood "	<i>chěnana</i>
<i>měmbachang</i>	"the horse mango "	<i>machang</i>
<i>pěndar</i>	"phosphorescence "	<i>pěnar</i>
<i>těmbelok</i>	"a boring marine worm "	<i>těmelok</i>
<i>pijat-pijat</i>	"a bug "	<i>pějat</i>

4. The use of certain peculiar idioms and idiomatic constructions.

One of the most common idiomatic constructions employed in the sense of "in the middle of doing something" is the use of *dok* a contraction of *dudok*, "to sit."

Elsewhere the word *dalam*, "in," *těngah*, "in the middle of," or *sědang*, "whilst," would be used to emphasise the fact that a person was in the act of doing something; or else the sentence would be introduced by such a word as *masa*, "at the time when"; or the state of action would be understood from the context, or even expressed by *ada* in the sense of "was."

In Penang a sentence such as

"I was in the house at the time," would be, *Kětika tu saya dok ada di-rumah* i.e. *Kětika tu* "at the time," *saya* "I," *dok ada* "was in the act or state of being," *di-rumah* "in the house."

"I was (in the middle of) eating when he arrived." *Bila dia sampai, saya dok makan nasi.*

"The ship is (in the act of) coming." *Kapai dok mai.*

"As I was (in the act of) going he was coming." *Saya dok pi dia dok mai.*

"A policeman was standing up at the cross roads." *Mata-mata dok těrpachak di-kěpala sempang.*

"I have been ill for a long time." *Saya dok sakit běrapa lama:— dok sakit* "have been in a state of illness."

"He is always playing." *Dia dok main siang malam:— dok main* "in the midst of play."

Another unusual construction is the use of the prefix *pě* to indicate an active sense instead of the more usual suffix *kan*

larikan or *mělarikan*, "to run off with," becomes in Penang *pělari*.

"He has run off with a man's daughter." *Dia sudah pëlari anak orang.*

Pëlari also means "to be taken off by" i.e. "to be washed away by." "The soil was all washed away by the rain." *Tanah itu habis di-pëlari hujan.*

The prefix *pě* is used with *baik*, "good," to form *pěbaik*, "to make good i.e. to mend."

Rumah belum lagi di-pěbaik. "The house is not yet repaired."

The same prefix when attached to *kěchi* "small," *rěndah* "low," *naik* "to rise," *rapat* "close together," and *hangat* "hot" forms *pěkěchi* "to make smaller," *pěrěndah* "to make lower," *pěnaik* "to raise or tune up," *pěrapat* "to bring close together" and *pěrhangat* "to heat up."

"Turn down the lamp." *Pěkěchi pělita.*

"The ground should be lowered still further." *Tanah tu mahu di-pěrěndah lagi.*

"He is tuning up the violin." *Dia dok pěnaik biola.*

"He is a little bit on." *Dia sudah pěnaik.*

From *lěkat* "to stick" is formed *pělěkat* "to set fire to fuel."

"Every morning early I have to get up and light the fire." *Sělalū pagi-pagi saya kěna bangkit pělěkat api.*

"The cold rice should be warmed up again." *Nasi sějuk tu mahu pěrhangat.*

"The floor boards should be closer together." *Papan lantai mahu pěrapat lagi.*

Pě when prefixed to a word commencing with the letter *h* becomes *pěr* so that *hambat* "to chase" becomes *pěrhambat* "to chase out" and *habis* "to finish" becomes *pěrhabis* "to finish absolutely," the letter *h* being elided in pronunciation.

"Chased out of the house" *Di-pěrambat kěluar dari rumah*

"Drink up!" *Minum pěrabis!*

5. *Balek* "on the other side of" is used in Penang for *sa-bělah* "on the side of" as

"Two doors on this side" *Balek sini dua pintu.*

"There are two witnesses on this side, but only one on that."

Balek sini ada dua saksi, balek sana choma satu.

Dan in Penang is the counterpart of *sěmpat* "to have time to," so that *ta' dan* means "no time to."

"I could not get back in time." *Saya ta' dan nak balek.*

"Will we catch the train? Yes." *Dan-kah kěreta api? Dan.*

"No time to eat with so much work." *K'ërja banyak ta' dan makan nasi.*

"No sooner had I sat down than he come." *Ta' dan dudok dia mai.*

Dan when duplicated on the other hand means, "straight-away there and then."

"A Chinese came to the station and reported that robbers had entered his house. Straight away I went out to enquire into the matter." *Sa-orang China mai repot di-balai kata-nya rumah dia di-masok pënyamun dan-dan juga saya këluar pi përeksa.*

"He returned as soon as he got the telegram." *Bila dia dapat taligëram dan-dan juga dia pulang.*

La is used for *sëkarang* "now":—

"Nowadays it exists no longer." *La ni, tada lagi.*

"I want it this very minute." *Saya mahu la ni juga.*

Sat a contraction of *sa'at*, "a moment," is in very general use.

"Come and sit down for a moment." *Hang mai-lah dudok sat.*

"Wait a moment." *Nanti sat.*

"He will be here in a minute." *Sat lagi dia mai.*

"He is always coming (i.e. every minute)." *Sat-sat mai.*

Sat can also be duplicated when it means, "just this very minute, a moment ago."

"He has just this second gone out." *Baru sat-sat dia këluar.*

Dëkal "near" is frequently used for *kapada* "to" and takes the place of *sama* in Singapore.

"How many times have I not told you?" *Bërupa kali saya sudah bilang dëkal hang.*

"Go and ask your master for money." *Hang pi minta duit dëkal tuan hang*

"He came and abused my wife in filthy terms." *Dia mai maki dëkal bini saya kotor-kotor.*

"He was fisted and kicked until nearly half dead." *Di-pukoi di-tëndang dëkal dia sa-tëngah nyawa.*

Buang "to throw away" is often used idiomatically with the implied sense of, "to get rid of."

"Tear that up." *Koyak buang.*

"He has left his family and gone to Siam." *Dia sudah tinggai buang anak bini pi nëgëri Siam.*

"Who knows where he has gone to live." *Ëntah ka-mana dia pi dudok buang.*

"Go and have your food first." *Hang pi makan buang dulu.*

"A banishee." *Orang buang nëgëri.*

Pakat "agreement by conference," is sometimes used in combination with other words to mean, "in a body."—

"The thieves went off in a body." *Pěnchuri itu pun sudah pakat lari.*

"Five men assaulted me in a body." *Lima orang pakat pukoi dēkat saya.*

"The women cursed him in a body." *Pěrěmpuan sudah pakat maki dēkat dia.*

The plurative suffix *pa* (in Kedah *apa*) is used in conjunction with the personal pronouns to form the plural number:—

Saya I *Sepa* We (*Saya pa*)

Hang You *Hangpa* You all (*Hang pa*)

Dia He or she *Depa* They (*Dia pa*).

You people are always like this. *Hang pa ni macham tu-lah sēlahu.*

We will not forget them. *Sepa ta lupa ka-depa.*

Kut "perhaps," used interrogatively at the end of a sentence but does not do away with *barang kali*:—

"I hope he has not fallen down by any chance." *Jangan dia pi jatoh kut.*

"Perhaps he is already married." (answer) "May be." *Barang-kali dia sudah kawin.* (answer) *Kut-lah.*

Jom, "Come on!" is frequently used alone as an interjection:—

"Come along." (answer) "Come on then." *Mari-lah.* (answer) *Jom.*

Aren't you coming? " (answer) "Alright, let us be off." *Tuan ta' mau pi?* (answer) *Jom-lah.*

Lagu "a tune" with the addition of *ni* "this" and *tu* "that" takes the place of *macham ini* and *macham itu* "like this or like that" and has the meaning of "manner" or "way":—

"Do it in this manner." *Hang buat lagu ni.*

"He wears a Chinese style of dress." *Dia pakai lagu China.*

"I don't like people carrying on in that manner." *Saya ta' suka orang buat lagu tu.*

"This is not the right way to carry on." *Lagu ni ta' kěna-lah.*

Noh "will you!" etc. is used interrogatively at the end of a sentence:—

"Don't forget, will you?" *Jangan hang lupa noh?*

"You're going aren't you?" *Hang nak pi noh?*

"You love me, don't you?" *Hang sayang noh?*

This word should be distinguished from *nah* "here," which is used at the beginning of a sentence when giving things to a person:—

"Here's the money."

Nah, duit!

"Here come and take this book."

Nah, umbek buk.

Takat "as far as, up to" or *had* (sometimes pronounced *hat*) which has the same meaning and is derived from the Arabic *hadd* "a boundary a limit," are used in conjunction with *ni* and *tu* to express meanings elsewhere obtained by the use of *sampai* or *sa-banyak*:—

"As much as that" (*sa-banyak itu*) *had tu.*

"He can't do even as much as this." *had ni pun ta' boleh buat.*

"Water up to the waist." *ayer takat pinggang.*

"The road ended at that point." *sa-takat tu jalan pun mati.*

Had is sometimes combined with *hingga* to mean "limit."

"Work without limit (unending)." *kërja dëngan tiada had hingga.*

Ha (nasal) "yes," which may be derived from the Hindustani word of the same sound and meaning is much used colloquially in reply to a query:—

"Did you go there? Yes." *Hang-kah pi situ? Ha.*

"Do you want this one? Yes." *Hang mahu yang ni-kah? Ha.*

A word rather similar in sound but omitting the *a* is *n* (nasal) which is used as an interjection at intervals by the listener to denote that he is paying attention to what is being said and understands it.

Entah an interrogative, "perhaps; I don't know," is frequently shortened to, *tah*:—

"I don't know where he has gone." *Tah kamana-kah dia pi.*

"Perhaps he is dead." *Tah-kah dia mati.*

"What are you doing?" *Apa-tah hang buat?*

6. The inclusion of words of Indian origin sometimes to the exclusion of native Malay words.

Penang	Singapore	
<i>Aria</i>	<i>Ulor</i>	To lower, to pay out rope.
<i>Achi</i>		Respectful designation of an elder sister.
<i>Auta Pa' Kasa</i>	<i>Auta Sëleman</i>	Bluff.
<i>Auta</i>	<i>Tëmberang</i>	"
<i>Bajau</i>	<i>Gasak</i>	To strike up or perform on an instrument.
<i>Bel</i>		A tree with an astringent fruit (<i>Aegle marmelos</i>).
<i>Bëriani</i>		A dish of rice and meat cooked together.

<i>Chamcha</i>	<i>Sëndok</i>	A spoon.
<i>Cha</i>	<i>Teh</i>	Tea.
<i>Chapras</i>		A badge plate: clasp.
<i>Chandi (shandi)</i>		Stubborn of a horse.
<i>Chota</i>	<i>Tongkat</i>	A police baton.
<i>Chokëra</i>		A Tamil youngster (servant).
<i>Dapra</i>		A fender (on a ship).
<i>Dol</i>		An Indian drum.
<i>Dal</i>		Split peas.
<i>Gadi</i>	<i>Këreta tangan</i>	A handcuff.
<i>Gabra</i>		To be alarmed, agitated.
<i>Hargari</i>	<i>Pasong</i>	Handcuff.
<i>Kaman</i>		A police term meaning special duty not regular beat work.
<i>Kachëra</i>		Low worthless people.
<i>Korma</i>		A rich stew of meat.
<i>Lawak</i>	<i>Këlakar</i>	Joking: jesting.
<i>Lucha</i>		Obscene, profligate.
<i>Ladam</i>	<i>Sëpatu kuda</i>	Horse shoe.
<i>Mampële (mapële)</i>	<i>Pëngantin jantan</i>	Bridegroom.
<i>Mampëlam</i>	<i>Mangga</i>	A mango.
<i>Male</i>		A garland.
<i>Mamak</i>		Uncle, a designation for one's father-in-law or the husband of one's aunt.
<i>Mami</i>		Aunt, a designation for one's mother-in-law or the wife of one's uncle.
<i>Mandom</i>		Worthless, a broken down horse.
<i>Machan</i>		The husband of an elder sister (<i>abang ipar</i>).
<i>Maini</i>		The wife of an elder brother (<i>kakak ipar</i>).
<i>Mambu</i>		The nim tree.
<i>Milai</i>		A kind of sweetmeat.
<i>Mërtubak</i>		A meat omelette.
<i>Nana</i>		Respectful designation of an elder brother.
<i>Pëlëras</i>		Pride; arrogance.
<i>Ponen</i>	<i>Këdi</i>	Impotent.
<i>Pokëri</i>		A profligate, a blackguard.
<i>Përata</i>		Unleavened bread.
<i>Ponu</i>	<i>Pëngantin përempuan</i>	A bride.
<i>Poni</i>	<i>Gayong</i>	A small tin vessel.
<i>Pili</i>		A water tap.
<i>Para</i>	<i>Jaga</i>	Sentry go.
<i>Përli</i>	<i>Buat main: giat</i>	To tease; to deceive.
<i>Piru</i>		A guinea fowl.
<i>Pariah</i>		A lowcaste person.

<i>Rēmunggai</i>	<i>Kelor</i>	Horse radish.
<i>Ranggi</i>	<i>Solek: kēnchang</i>	Fine, gaudy.
<i>Sauku</i>	<i>Chabok</i>	A whip.
<i>Stan</i>	<i>Hathir</i>	Reserve duty.
<i>Sule</i>	<i>Angin</i>	A rheumatic swelling in the joints.
<i>Shanan</i>		A Hindu coconut tree climber.
<i>Tal (tai)</i>		A tall palm with edible fruit. (<i>Borassus flabelliformis</i>)
<i>Tairu</i>	<i>Ladeh</i>	Curds.
<i>Tan</i>	<i>Sētal</i>	A stable.
<i>Tala</i>	<i>Giēpoh (kunchi mangga)</i>	A padlock.

Proper names are now taken almost wholly from the Arabic, native Malay names being reduced to a mere handful of common designations as *Awang*, and *Putch*, *Sulong* and *Bongsu*. Penang Malays bear several names which at once denote the Indian extraction of their bearers. Prominent amongst *Jauī Pēkan* names are such, as *Che Em Bi* (where *Che* is not derived from the Malay honorific *ēnche'* but forms part of the proper name); *Marikan*; *Maidin*; *Pawan*, *Pa Wan*, *Pa Wan Chik*, *Pa Wan Teh*; and amongst women *Ma Wan*; *Ma Wan Chik*; *Ma Wan Bi*; *Bibi*; *Kēlsom*; *Kēlsom Bi*; *Habibah*; *Nachar*, etc. Arabic names many of which are long and harsh to Malay ears if pronounced orthographically are all shortened to a monosyllable, which is invariably the last syllable of the words, slightly altered in some cases to soften the sound. This custom is prevalent all over the peninsula with but slight variations in different places for some of the abbreviations. The abbreviated names are the ones in general use when speaking familiarly and in the homes but not even then to the entire exclusion of the fuller forms.

In Penang.

Ismail is abbreviated to or *Me'* or *Mail*

<i>Jaafar</i>	<i>Par</i>
<i>Abu Bakar</i>	<i>Kar</i> or <i>Bakar</i>
<i>Abdul-Rahman</i>	<i>Man</i> or <i>Draman</i>
<i>Abdullah</i>	<i>Lah</i> or <i>Dollah</i>
<i>Darus</i>	<i>Ros</i>
<i>Ghaus</i>	<i>Ros</i>
<i>Hashim</i>	<i>Chem</i>
<i>Hassan</i>	<i>Chan</i>
<i>Hussain</i>	<i>Chen</i>
<i>Ibrahim</i>	<i>Em</i> or <i>A'em</i> or <i>Brahim</i>
<i>Isa</i>	<i>Cha</i>
<i>Junus</i>	<i>Nos</i>
<i>Jusoh</i>	<i>Choh</i>
<i>Kassim</i>	<i>Chim</i>
<i>Arshad</i>	<i>Chat</i>
<i>Mahmud</i>	<i>Mod</i>

<i>Muhammad</i>	<i>Mat</i>
<i>Ahmad</i>	<i>Mat</i> or <i>Amat</i>
<i>Hamid</i>	<i>Mid</i>
<i>Mansur</i>	<i>Choh</i>
<i>Osman</i>	<i>Man</i> or <i>S'man</i>
<i>Sharif</i>	<i>Yib</i>
<i>Sa'ad</i>	<i>Ad</i>
<i>Sa'id</i>	<i>Id</i>
<i>Sa'ud</i>	<i>Od</i>
<i>Salleh</i>	<i>Leh</i>
<i>Isahak</i>	<i>Ak</i>
<i>Usop</i>	<i>Sop</i>
<i>Khadijah</i>	<i>Jah</i>
<i>Fatimah</i>	<i>Mah</i>
<i>Asiyah</i>	<i>Yah</i>
<i>Saudah</i>	<i>Dah</i>
<i>Mariam</i>	<i>Yam</i>
<i>Minah</i>	<i>Nah</i>
<i>Kalsom</i>	<i>Som</i>
<i>Habibah</i>	<i>Bah</i>
<i>Nahchar</i>	<i>Char</i>
<i>Esah</i>	<i>Chah</i>
<i>Bibi</i>	<i>Bi.</i>

PENANG.

SINGAPORE.

Abang	<i>abang</i>	elder male cousin.
Abang ipar	<i>ipar</i>	brother-in-law; husband of elder sister.
Achar	<i>limbah</i>	a cess-pool.
Achi lor	<i>tutup itu</i>	hide and seek.
Adek	<i>adek</i>	younger male or female cousin.
Adek ipar	<i>ipar</i>	brother or sister-in-law, husband or wife of younger sister or brother.
Angkit	<i>angkat</i>	to lift, to raise.
Anjak	.. ..	.. slight alteration of position.
Aram	<i>dendam</i>	threats of vengeance, to harbour a feeling of vengeance: <i>dendam</i> in Penang only means longing.
Asin-asin	<i>chëkok manis</i>	a small leaved vegetable, eaten as spinach.
Awal	<i>siang-siang</i>	early.
Awas	.. ..	.. a culinary mixture of various prepared vegetables with their appropriate spices etc.
Awat	<i>kënapa</i>	why.
Ayakan	<i>ayak</i>	a sieve: <i>pëngayak</i> in Penang is a large sieve for gravel etc.
pëngayak		

PENANG.	SINGAPORE.	
Badak	<i>těnok</i>	a tapir.
tampong		
Bagan	<i>pěngkalan</i>	a landing stage.
Bagi	<i>kasi</i>	to give.
Bairup	<i>boya</i>	a fat person (vulgar = from a harbour buoy).
Bakir	<i>běrběku basi</i>	sour milk.
Balai	<i>rumah pasong</i>	a police station.
Balun	.. ..	to thrash.
Balut	<i>bungkus</i>	to wrap up.
Bandarsah	<i>surau</i>	a private mosque.
Bangkit	<i>bangun</i>	to get up.
Běbai	<i>pěřěngus</i>	cross-grained.
Bědědam	.. ..	to crowd together.
Bělachak	.. ..	hopping mudfish.
Bělah	.. ..	to butt; <i>di-bělah kambing</i> , to be butted by a goat.
Bělahak	<i>sědawa</i>	to belch.
Bělalang	<i>sibor-sibor</i>	a dragonfly: <i>patong chabai</i> , a red variety: <i>patong rimau</i> etc.
patong or		
patong		
Bělangkas	.. ..	a four-sided teetotum for gambling with representations of <i>bunga udang kětam</i> and <i>ikan</i> (Chinese <i>si bin</i> four face).
Běndang	<i>sawah</i>	a stretch of paddy field.
Běngkak	<i>běrok antar</i>	mumps.
chantek	<i>hasil</i>	
Běngkang	<i>bingka puteh</i>	a sweetmeat.
Běngkang	<i>bingka merah</i>	.. ..
gula měrah		
Běntara	<i>pělayan</i>	one who brings in the dishes at a feast.
Běrangas	.. ..	tiny sharp shells adhering to wood.
(siput)		
Běrchalar	<i>běrgaris</i>	scratched.
Běrkapok	<i>běrpělok</i>	to enfold in the arms.
Běrtaki	<i>běřjanji</i>	to agree.
Běrtanya	<i>běrtanya, těpat</i>	to ask exactly: a direct question.
pěpat		
Běrtoh	<i>langgar</i>	to collide.
Biji asam	<i>toan (Chinese)</i>	fantan:
(main)kacha		
kěrat		
Bok	<i>joran</i>	a fishing rod.
Bontot kapal	<i>bělakang kapal</i>	the stern.

PENANG.	SINGAPORE.	
Buah sagalat	<i>buah mantega</i>	butter fruit (<i>Diospyros discolor</i>).
Buah sawa	<i>buah sauh</i>	the chiku.
Buat kambu	.. ..	.. to take in: to swindle.
Buat som	.. ..	.. to look sulky.
Buboh	<i>taroh</i>	to place.
Bunga ayer	<i>bilis</i>	white bait.
Burong	.. ..	.. a well known tune with extempore numerous verses introducing <i>pisan datok nenek</i> i.e. grandpa and grandma's instructions.
Burong sengan		the night-jar, on account of its lazy habit of laying its eggs on a road without a nest.
Chabai	<i>lada</i>	chilis, <i>lada hidup</i> = fresh; <i>lada kering</i> = dried.
Chak	<i>pipit</i>	a sparrow.
Chak Běngala	<i>jělatek</i>	the Java sparrow, a bird of the finch tribe.
Chak burung	<i>pipit rumah</i>	the house sparrow.
Chak pipet	<i>pipit tuli</i>	a small speckled finch, which is fond of padi and takes a lot of scaring.
or chak tuli		
Chak raya	<i>burong</i>	the weaver bird.
	<i>těmpua</i>	
Chak tanah	.. ..	.. the ground lark.
Chak uban	<i>pipit uban</i>	the white-headed munia.
Chakok	<i>changkok</i>	a crook, a hook.
Chalak	.. ..	.. affection.
Chamdek	<i>sindir</i>	innuendo, sarcasm: to get at a reason indirectly.
Chamor	<i>sepah</i>	scattered about.
Champin	.. ..	.. a slight flow.
Changkat	<i>tohor, chetek</i>	
Changkis	<i>chantis</i>	shallow.
Chapek	<i>tempang</i>	a scrawl (of handwriting).
Chapul	.. ..	.. lame.
Chapui		indiscreet chatter and remarks on strange subjects in times or places of danger, regarded as liable to bring down some misfortune: a loose tongue, <i>mulut chapui</i> .
(= chabul)		
Chas	<i>gelek, kěletah</i>	forward of a girl: fast.
Chědas	.. ..	.. lively, strong, recovered as from an illness.
Chěkam	<i>chěngkam</i>	to compress as a flat object between finger and thumb.

PENANG.	SINGAPORE.	
Chěkang	<i>těgang</i>	taut.
Chěkap	.. ..	able, skilful, competent
Chělěpa	<i>kěpok</i>	a small tin receptacle for tobacco or cigarettes.
Chělaru	.. ..	in confusion, in disorder, scattered around.
Chělus	<i>lulus, muat</i>	ability to pass through an aperture, <i>lulus</i> in Penang only means to succeed, to come off.
Chěmpa	<i>chěmpaka</i>	the champak tree (<i>Michelia champaca</i>).
Chěmpaka	<i>bunga kubor</i> <i>bunga kěmoja</i>	the fraujianni.
Chěmpědak mambong	<i>nangka bubor</i>	a large pithy jack fruit, with little or no contents, a fat woman.
Chěmpěra	<i>těmpiar</i>	broken up, scattered in all directions as frightened chickens.
Chěmus	<i>jělak</i>	nausea, from overeating.
Chěnchodak	<i>todak</i>	a sea fish with long projecting jaws.
Chěnděrus	.. ..	the refining of rancid oil.
Chengkok	.. ..	bent, <i>chengkok běledok</i> , bent and twisted, twisting and turning.
Chengkol	.. ..	twisted, bent up of a diseased arm or shrivelled hand.
Chěnqhom (daun)	<i>kěsom</i>	a small shrub with fragrant edible leaf.
Chěnonot	<i>tulang tongkeng</i>	the extremity of the backbone, <i>chěnonot ayam</i> , the pope's nose.
Chěnuram	<i>churam</i>	sloping.
Chěrah	<i>těrang</i>	clear, in Penang <i>kulit chěrah</i> is a fair skin i.e. not dark, <i>mata-mata chěrah</i> is an ordinary P. C. as opposed to a <i>mata-mata gělap</i> , or detective.
Chětěra	<i>chěrita</i>	a tale, a story.
Chop	.. ..	a spade.
Chor badar	<i>chuchor badar</i>	a cake of flour, currysuffs and prawns (<i>wada Tamil</i>).
Chor kodak	<i>jěmput-jěmput</i>	small round balls of banana and flour.
Chor pisang	<i>goreng pisang</i>	a banana fritter.
Chuak	.. ..	nervous, frightened, afraid (<i>hati chuak</i> from the Chinese <i>choak</i>)
Chuchor	<i>pěnganan</i>	cakes.

PENANG.	SINGAPORE.	
Dakap	<i>pělok</i>	to embrace.
Darai	<i>mandul</i>	sexual impotence of the female.
Daun pějät	<i>haroda</i>	rue.
Dogeng	<i>dogel</i>	unfledged, featherless, as some young chickens with a few strong feathers on back and wings, clothes etc.
Domol	<i>manchong</i>	snout.
Duit	<i>sen</i>	one cent.
Duku	<i>sekeh</i>	to rap with the knuckles.
Egeh	<i>egah</i>	to walk with an unsteady gait as an old woman, <i>jalan teregah-egah</i> .
Ekor kuda (rumpuť)	.. ..	.. a grass with a tufted head like horse tails.
Elok	<i>molek</i>	pretty.
Enau	<i>kabong</i>	the suger plant.
Galäh panjang or tui	<i>main galah</i>	a game like prisoner's base.
Gamak	<i>agak</i>	to guess.
Garok	<i>garau</i>	rough voiced, raucous, rasping.
Gasal	<i>ganjil</i>	odd of numbers.
Gebang (běrgembang)	<i>běrbual</i>	to yearn.
Gěbu	.. ..	.. soft, white as sand or a woman's hand.
Gědėgar	.. ..	.. very coarse, of a fabric.
Gědubil	<i>sělamba</i>	unmoved, brazen.
Gělak	<i>kělawa</i>	to laugh.
Gělam	.. ..	.. a light brown heron the size of a <i>bangau</i> , found in padi fields and swamps.
Gělebat	<i>bělebat</i>	a double bladed paddle.
Gěloh leher	.. ..	.. to slit a person's throat.
Gěmpar	.. ..	.. to threaten, to scare (in Singapore <i>gěmpar</i> only means to bruit abroad).
Gěndang raya	<i>bědok</i>	the big drum in a mosque for beating the hours of prayer.
Genjak	.. ..	.. slight alteration of position, to move.
Genjut	.. ..	.. to edge towards (<i>genjut</i> in Singapore is out of the straight as the fold of a sarong etc).
Gěrai	.. ..	.. a platform on which newly confined women lie to be warmed (<i>salai</i>).

PENANG.	SINGAPORE.	
Gěřemit	<i>gěrodi</i>	an auger.
Geti	<i>turi (sayor turi)</i>	the edible leaf of a small tree.
Ginchar	<i>kinchar</i>	to cleanse, to wash clothes etc. by swishing about.
Godam	.. ..	to hammer, to chastize.
Golok	<i>parang</i>	a Malay chopper.
Gonjak	<i>giat</i>	to tease, to annoy, to pull a person's leg.
Goris api	<i>korek api</i>	matches.
Gosok	<i>gosok</i>	to rub, to scrub.
Gula gerek	<i>gula Malaka</i>	brown coconut sugar.
Gula puteh	<i>gula pasir</i>	white fine sugar.
Gun	.. ..	rising ground.
Gundi	<i>guni</i>	a sack.
Guri	.. ..	an earthenware pot.
Gut-gut or gugut	<i>bubut (burong)</i>	a bird, a variety of Coucal, a ground cuckoo.
Habuan	<i>untok, bagian</i>	a share.
Hailan	<i>hal-nya</i>	plight; position; circumstances; affairs.
Hambat	<i>kějjar</i>	to chase.
Hangat	<i>panas</i>	hot.
Hindu	<i>Kěling Hindu</i>	a Tamil; a Hindu.
Hingar	<i>bising</i>	noisy.
Ipar lamai	<i>ipar duai</i>	brother and sister-in-law of various degrees.
Jajat	<i>cjok</i>	to mock, to tease.
Jalang	<i>sundal</i>	a prostitute.
Jalor	.. ..	striped.
Jambang	<i>chambang</i>	whiskers.
Jamong	<i>andang</i>	a torch of palm leaves.
Janggus	<i>gajus</i>	the cashew nut.
Jangkit	<i>kait</i>	to bait a hook by piercing.
Jělabas	<i>chělupar</i>	talkative, garrulous, especially of a person who passes remarks on everything he notices.
Jělaga	<i>sniang asap</i>	lamp-black.
Jělapang	.. ..	a raised granary.
Jěněhak	<i>ikan merah</i>	a fine red sea fish.
Jěrap	<i>sěrap</i>	to soak, filtration, in Penang <i>sěrap</i> means to sponge on.
Jěrumal	<i>kelong</i>	a deepwater fishing stake.

PENANG.	SINGAPORE.	
Jêrumun	.. ..	a mound of grass: a wild pig's lair: a hut of grass used as a cover by hunters in decoying gamebird: in this last context, <i>bumbun</i> is the word employed in Singapore, whereas <i>bumbun</i> in Penang means heaped up, as a very full measure of grain called in Singapore <i>pěnoh mē-rombong</i> .
Joreng	<i>choreng</i>	striped (in Singapore <i>joreng</i> is a small strip of fish etc).
Jurai	<i>joreng</i>	a strip of fish, etc., <i>sa-jurai ikan</i> .
Jurus	<i>airus</i>	to water.
Kachang	<i>kachang botor</i>	the flanged bean (edible).
kělisa		
Kain rawa	<i>kain pělangi</i>	a cloth usually silk blotched with all the colours of the rainbow, worn by women.
Kakak ipar	<i>ipar</i>	sister-in-law, wife of elder brother.
Kaleh	<i>aleh</i>	change of posture.
Kalut	<i>měmbolot</i>	busy, bustling about.
Kambi	.. ..	a plain metal earring.
Kambus	<i>timbus</i>	to fill in.
Katak	<i>kodok</i>	a frog.
Katok	<i>kětok</i>	to rap, to knock, to hit.
Katup	<i>tutup</i>	to close.
Kawat (ka-waid)	<i>běrbaris</i>	drill.
Kěděra	<i>anak bėlanak</i>	a sea-fish like a small <i>bėlanak</i> .
Kědiri	<i>sindiri</i>	oneself.
Kědudok	<i>sěnudok</i>	a common pink flowered shrub like a wild rhododendron.
Kělabong	<i>běrsepah</i>	mixed up, higgledy piggedly.
Kelang	<i>enjin</i>	a mill.
Kělarah	.. ..	a naagot which bores the branches of the mango trees in particular.
Kěleh	<i>lihat, nampak</i>	to notice.
Kělian	<i>galian</i>	a mine.
Kěling	<i>Kěling Islam</i>	a Mohamedan Tamil.
Kělip-kělip	<i>kunang-kunang</i>	a firefly.
Kělmarin	<i>sa-malam</i>	Yesterday (in Singapore <i>kělmarin</i> can be used indefinitely for any previous date or occasion.
Kělochak	<i>gělanchah</i>	choppy, broken of water.

PENANG.	SINGAPORE.	
Kēlola	<i>jaga</i>	to manage, to look after, <i>ta'kelola</i> .
Kēloloh	.. ..	casual.
Kēlumbong	(<i>kain</i>) <i>tudong</i> <i>kēpala</i>	a sarong worn as a mantle by Malay women.
Kēmaman	.. ..	a small shrub with short pods which are made into a pickle (<i>jērok</i>).
Kēman	<i>si-malu</i>	the sensitive plant.
Kēmatu	.. ..	a corn, a callosity.
Kēmēling	.. ..	the blue water hyacinth.
tēlor		
Kēmukus	<i>tēmbēlang</i>	addled, of an egg.
Kēmurok	<i>tēlor busok</i>	a rotten egg.
Kēndi	.. ..	a small grey curlew found on tidal flats.
Kēnduri	.. ..	an intensitive of <i>kēnduri</i> , feasts of all sorts.
kēndara		
Kēpak	.. ..	to break off by bending.
Kēpala bēsar (<i>burong</i>)	.. ..	a plover.
Kēpul	.. ..	one fourth of a chupak.
Kērabat	.. ..	to swarm up, to climb up.
Kēra duka	<i>kongkang</i>	the slow loris.
Kērak nasi	<i>si-kudangan</i>	the small white scented flower of a climber much used by the Chinese ladies in their hair.
Kērap	<i>si-lalu</i>	frequently: <i>kain kērap</i> = close woven cloth.
Kēredak	<i>kēlodak</i>	dregs, refuse left at the bottom
Kērēlap	.. ..	or on the sides of a vessel.
tēr-kērēlap		to snooze.
Kērēnah	.. ..	secrets, scandal, go-sip, private affairs.
Kērēsau	<i>kēreteng</i>	frizzy of hair.
Kērēsul	<i>kērēsai</i>	dry and wiry of hair.
Kēriang Acheh	<i>kayu kēlat</i>	a large tree with reddish-black edible berries the size of damsons.
Kēriang lada	<i>kayu kēlat</i>	another variety with edible berries (tiny).
Kēriau	<i>pēkek</i>	to call out aloud.
Kērja tēr-	<i>kērja</i>	work that is being continually
togah-togah	<i>tēragah-agah</i>	left off.
Kērosi sandar	<i>kērosi malas</i>	an easy chair.
Kērtas pedap	<i>kērtas kēmbang</i>	blotting paper.
Kērunas	.. ..	to pick to pieces, to exhaust by taking bits at a time.

PENANG.	SINGAPORE.	
Kērutop	<i>pakat pukol</i>	to assault in a gang.
Kēsangka	.. ..	.. a large earthenware cooking-pot.
Kēsēmak	<i>buah samak*</i>	a persimmon.
Kētayap	<i>songkok haji</i>	a white skull cap.
Kētēki	<i>tēka-tēki</i>	a riddle.
Kētul	.. ..	.. a lump, a clot, a piece.
Kētumbit	<i>lembel*</i>	a sty in the eye.
Kira	<i>hitung</i>	to count.
Kong	<i>gading-gading*</i>	the ribs of a boat (in Singapore <i>kong</i> is a particular shaped rib.)
Kongkiak	<i>chēngkiak*</i>	a bulldog-ant with large black head and mandibles which bites fiercely.
Kopiah	<i>songkok</i>	a Malay cap.
Kosta (sakit)	† <i>taiko (Chinese)</i>	leprosy.
Kotek mamak	.. ..	.. a tree with long pods used medicinally, the pink acasia (<i>Acasia horrida</i>).
Kuchai	.. ..	.. to disturb.
Kudil (e)	<i>kudis</i>	scurf.
Kufa	.. ..	.. an earthen jug.
Kulat	<i>chēndawan</i>	a mushroom.
Kutip	<i>pungut</i>	to collect. to pick up.
Lada	<i>lada hitam</i>	pepper.
Lahar	.. ..	.. a mere.
Laki ayer	.. ..	.. a daddy-long-legs found on the surface of pools of water.
Lambong Kē- ling	.. ..	.. a form of the game <i>sērēmban</i> played with one hand.
Langgas	.. ..	.. free, unrestrained, without ties or impediments.
Lan	<i>tērmēngkēlan hati</i>	a feeling of repulsion, as when eating dirty food, revolting.
Langcha	<i>becha (Chinese)</i>	a ricksha.
Langut	<i>dangok</i>	to look up longingly.
Lapek	<i>alas</i>	a lining, pedestal, etc.
Larap	<i>tērok</i>	serious, painful of illness.
Lau	<i>rēban</i>	a fowl house.
Lēchas	.. ..	.. sweet (<i>manis mēlēchas</i> extremely sweet).
Lēkang	<i>longkah</i>	to peel off, easily shelled, of fruit.
Lēkeh	.. ..	.. dirty, despicable, wretched as a loafer.
Lēmang		any sausage like body sometimes used coarsely of the penis.

PENANG.	SINGAPORE.	
Lěmba	.. ..	low of stature, <i>ayam lěmba</i> a short low-bodied fowl.
Lena	<i>lělap, lěnnnyak</i>	fast asleep.
Lenchong (<i>mělenchong</i>) †		to go off at a tangent.
Lěndit	<i>tertib</i>	neat as a phrase.
Lěnga	<i>bijan</i>	a small seed (<i>Sesamun indicum</i>) from which an oil is expressed, much used by Tamils for anointing their persons.
Lewat	<i>lambat</i>	late.
Likat	<i>pěkat</i>	thick of liquids.
Linchin	<i>lichin</i>	smooth.
Lingkup (<i>pi-lah</i>)	<i>pe setan</i>	to blazes with it, let it go to pot, from <i>lingkup</i> = spent, destroyed.
Lodoh	<i>bonyor</i>	ripe to rottenness, pulpy.
Longkang	.. ..	the breadth of a sarong round the waist <i>longkang-nya běsar</i> full in the waist.
Loklek	<i>těrkedek-kedek</i>	an affected mincing walk.
Machang	<i>měmbachang</i>	horse mango.
Machang (<i>sakit</i>)	<i>mangga (sakit)</i>	a bubo.
Madah (from padah)	<i>jěmput</i>	to invite, as to dinner.
Main saji	.. ..	the playing of Hindustani airs with a harmonium and dol.
Mala	<i>layu</i> <i>malam sěkarang</i> or <i>malam ini</i>	faded.
Malam sat ni or malam ni	or <i>malam ka-</i> <i>rang</i>	tonight.
Mampai	.. ..	blunt, not cut to a point or edge, the end of a pole or back of a parang.
Manisan lěbah	<i>ayer madu</i>	honey, ayer madu in Penang only means the sweet juice of fruits.
Mata ikan	.. ..	a corn.
Mawa	<i>ungka</i>	a wahwah monkey.
Mělayah	<i>mělěmang (měn- jilat duit)</i>	to bend over backwards and pick up article with one's mouth (<i>a joget's</i> trick).
Mělachar	<i>běrgarut</i>	to be abraded, an abrasion.
Mělong	.. ..	over-developed, as a child.
Měmbuang sěrěkap ja- rang	<i>měnebar jala</i> <i>rambang*</i>	to throw a wide net, to cast around for information.

PENANG.	SINGAPORE.	
Měnahagu	.. ..	.. to importune, to be always borrowing articles.
Měnari	<i>běrtandak</i>	to dance.
Měngebat	<i>lawā</i>	to show off.
Měngěroh	<i>děngkoh</i>	to snore.
Měnguet	.. ..	.. to move, <i>ta' mēnguet</i> not a kick left in him, motionless.
Měnyěbai	.. ..	.. to be in a pet, huffy.
Měrapus	.. ..	.. to tie the four legs of an animal together for killing etc.
Měratap	.. ..	.. to have one's fingers loaded with rings, <i>jari-nya mēratap dēngan chinchin</i> .
Měřloh	<i>měmbuta</i>	to be fast asleep, (in Singapore <i>měřloh</i> is only used in its proper sense of to be blind.)
Měrepet	<i>měrepet</i> or <i>mě-repek</i>	to drivel, to talk nonsense.
Měrjan	.. ..	.. large beads of gold etc. fretted or otherwise worn round the neck, the smaller beads being termed <i>manek koral</i> or <i>manek Arab</i> . In Singapore <i>manek měrjan</i> means a coral bead.
Minyak gas	<i>minyak tanah</i>	kerosene oil; <i>minyak tanah</i> in Penang is the thick reddish oil used for putting on wood-work, boats etc., i.e. crude oil.
Mok-mit	<i>komak kamek</i>	mouthing, the movements of the mouth in speaking.
Monel	.. ..	.. pretty and white of a child.
Montel	.. ..	.. well nourished, of a child.
Mopeng	<i>hopeng</i>	pock-marked.
Muka pėran	<i>topeng</i>	a wooden mask used in a <i>mayong</i> .
Muka tēbal	<i>muka papan</i>	unashamed, brazen.
Murai gila	<i>murai gila</i>	the fantailed flycatcher.
Nirai	<i>baris</i>	a line.
Nyior †	<i>kėlapa</i>	a coconut.
Ochok	<i>chochok</i>	to incite.
Ochok-ochok	<i>pěngochok</i> (<i>chěrochok</i>)	a forked stick with bits of coconut shell attached loosely for frightening fish.
Otak tulang	<i>som : lėmak tulang</i>	marrow.
Pachak	<i>chachak</i>	to stick into.

PENANG.	SINGAPORE.	
Pajak ikan	<i>pasar</i>	a market.
Pajak lēlap	<i>pajak gantong</i>	shops where unredeemed pawn pledges are sold.
Paket (Eng.)	<i>saku, kochek</i>	a pocket.
Palong	<i>jongkong</i>	a smaller dugout.
Panching †	<i>mēngail</i>	to fish with a line.
Panchor	<i>paip ayer</i>	a tap, a pipe.
Pandak	<i>pendek</i>	short: in short.
Panggil	<i>tēriak</i>	to call, (in Penang <i>tēriak</i> only means to weep.)
Panggu	<i>bahagian</i>	a share.
Pangkeng	<i>pēntas</i>	a sleeping bench.
Parau	<i>sērak</i>	hoarse, to lose one's voice.
Parit †	<i>longkang*</i>	a drain, a gutter (<i>parit</i> in Singapore means an earth drain.)
Pa'saut	.. ..	.. father of scoops, i.e., a snatcher of goods, or a good man at picking up women.
Pasēmbor	<i>rojak parut</i>	a mixed vegetable salad with a pungent sauce.
Pebin	.. ..	.. an eight-sided teetotum for gambling at the Chinese game of <i>Penbin</i> , eight-faced.
Pēchah ēmpat (bunga)	<i>kēmbang pukul ēmpat</i>	a common white flower with seeds like a pepper-corn containing a fine white powder.
Pēdukang	<i>bēlukang*</i>	a mudfish, a man who always has an eye on the main-chance as regards women.
Pēgaga	<i>pēraga*</i>	a creeping herb with an edible leaf.
Pējam	<i>kējam*</i>	to close one's eyes.
Pēkaka	<i>raja udang*</i>	a kingfisher.
Pēkin	.. ..	.. to think about saving, to economise, careful of expenditure.
Pēlau	<i>andar</i>	in vain: unsuccessful effort, <i>buat kēnja pēlau</i> , to have toiled and got no reward.
Pēlantek	<i>bēlantek*</i>	a spring gun.
Pēlatok	<i>bēlatok</i>	a woodpecker.
Pēlatut	.. ..	.. an idler.
Pēleta	<i>lampu</i>	a lamp.
Pelet	<i>pelat</i>	accent, brogue.
Pēnakan, abang	<i>saudara abang</i>	elder male cousin.

PENANG.	SINGAPORE.	
Pěnakan, adek	<i>saudara adek</i>	younger male or female cousin.
Pěnakan, anak	<i>saudara anak</i>	nephew or niece.
Pěnakan, bapa	<i>saudara bapa</i>	uncle.
Pěnakan, kakak	<i>saudara kakak</i>	elder female cousin.
Pěnakan, mak	<i>pupu</i>	
Pěnakan, mak	<i>saudara mak</i>	aunt.
Pěnoh bėkat	.. ..	.. chock full.
Pělontang	<i>Pělampong</i>	floats (<i>pělontang</i> in Singapore is the single big float which marks the end of the net).
Pěnyangak	.. ..	.. a thief, a filcher.
Pěpait (siput)	.. ..	.. a small shell found in paddy fields.
Pěrachut	.. ..	.. a big boil.
Pěrahu	<i>kolek</i>	a Malay canoe.
Pěrak	<i>changak</i>	startled, as an animal; to cast startled glances.
Pěrat	<i>těngek</i>	rancid.
Pěrdu	<i>pangkal</i>	a base of a tree trunk.
Pěreh ikan (orang)	<i>pěraih ikan</i>	a middleman who buys fish from the fisherman.
Pěrenggan	<i>sěmpadan</i>	a boundary.
Pěrengkat	<i>tengkat, pangkat</i>	graduation in rank or degree of relationship standard; level.
Pěriap	.. ..	.. to stupefy.
Pěrmatang	.. ..	.. an island of rising ground in a plain.
Pějal	<i>kěnnyat</i>	hard and firm of flesh, <i>batu pějal</i> = <i>batu ubin</i> (Singapore).
Pětola	<i>kětola</i>	a variety of edible pumkin.
Pinang kachat	<i>jěrekat*</i>	unripe betel nut used for wiping the teeth.
Pinang rampang	.. ..	.. betel nut edible, but not quite mature, being still slightly juicy.
Pompang	.. ..	.. a drift net.
Puak	<i>pasok</i>	a troupe.
Pudina (daun)	.. ..	.. mint.
Pulut tětai	<i>pulut apit</i>	a sweetmeat of compressed <i>pulut</i> .

PENANG.	SINGAPORE.	
Punggai	.. ..	.. to throw down; to haul.
Pungkor	<i>punggong,</i> <i>bontot</i>	the buttocks.
Radup	<i>jahit sembat</i>	a plain hemstitch.
Ragi	<i>chorak</i>	pattern.
Rajut	.. ..	.. covering anything with successive folds of string, as a basket to be sent on a long journey <i>Rajut</i> in Singapore is to knit this being expressed by <i>kait</i> in Penang.
Ralip	.. ..	.. habitual practice; custom; <i>ralip dengan bermain</i> given up to play.
Rama-rama	<i>kupu-kupu</i>	a butterfly (in Singapore <i>rama-rama</i> is a moth).
Rambutan kapri	<i>pulasan</i>	a good variety of rambutan fruit with short hairs and deep red skin.
Rawa	<i>sondong</i>	a shrimping net.
Rěbah	<i>robok</i>	to fall down; of a house.
Rělah	.. ..	.. torn, of a coat.
Rěmbia	<i>gombia</i>	the sago palm.
Rěmpong	.. ..	.. a bunch, to make into a bunch.
Rěmia	<i>rěmėnia</i>	a small round yellow acid fruit with a mouse-coloured stone (<i>Bouea macrophylla</i>) <i>warna biji rěminia</i> mouse-coloured.
Rěmudu	<i>běbudu</i>	a tadpole.
Rěndang	<i>goreng</i>	to fry.
Rengkat	.. ..	.. to limp, to walk unevenly as a man with a bad foot.
Rěsdong	<i>rěstong</i>	syphilitic ulceration of the nose.
Rimbok	.. ..	.. a blow with the side of the fist.
Rian	<i>royan</i>	a protracted flow of blood after confinement.
Rona	<i>warna</i>	colour.
Ronggeng †	<i>joget*</i>	a Malay dancing girl.
Rongkeng	<i>kěrongkong</i>	throat.
Roti surai or roti karai	<i>roti jala or roti jurai*</i>	shredded wheatmeal bread for eating with curried meats.
Ruseng	.. ..	.. peevish, grumpy.
Rusok	<i>sa-bělah; těpi</i>	at the side of (a house, etc.)
Sa-barong	.. ..	.. to mix with, to associate with, <i>dia suka sa-barong dengan Siam</i> he likes associating with Siamese.

PENANG.	SINGAPORE.	
Sabit	<i>sēhab</i>	on account of, reason, cause.
Sagi	<i>sēgi</i>	a side, a facet.
Sakal	.. ..	to rap with the knuckles, to strike.
Sakan	<i>sasa</i>	big and sturdy.
Sa-kupang	<i>sa-puloh sen</i>	ten cents.
Sa-lulus	.. ..	always, often.
Sandērom	.. ..	a necklace worn by married women of Kling descent, with a pendant called <i>puti mani</i> .
Sang Gēdēm-bai	<i>Sang Kēlēm-bai</i>	a mythical magician.
Sa-piak sireh	<i>sa-kapor sireh</i>	a mouthful of sireh.
Sa-tengah duit	<i>dua duit or duit dua duit</i>	a half cent piece.
Sardu	.. ..	a gold neck ornament worn by Hindu women.
Sasau	<i>šasar</i>	lighthheaded.
Satu shambukain (sambu)	.. ..	a double sarong as yet uncut.
Satu suku	.. ..	25 cents; <i>lima suku</i> is \$1.25.
Segak	<i>pēsolek hebat</i>	dandified, fine-looking.
Sēgan (pēnyēgan)		reluctant (in Singapore <i>sēgan</i> only bears the meaning of <i>malu</i> , shy).
Segok	<i>janggal</i>	a sluggard. awkward, out of place, not in keeping with the surroundings.
Sēlang	<i>lat</i>	intervening.
Sēlaseh (buah)	<i>buah bēlwar</i>	passion fruit.
Sēling	<i>siling</i>	small silver change.
Sēlut	<i>lumpur</i>	mud.
Sembang	.. ..	to sit round and chat.
Sēmbawa	<i>huang pēlawā</i>	to invite in.
Sēmbilang karang	<i>usat</i>	a small striped <i>sembilang</i> fish.
Sēnayan	<i>Isnen, Sēnen</i>	monday.
Sēngkak	.. ..	nausea; the feeling of having eaten too much. In Singapore <i>sēngkak</i> means to massage the stomach upwards by gripping it tightly between thumb and forefinger.

PENANG.	SINGAPORE.	
Sěrélum	.. ..	.. to slip on over the head as clothes or a sarong.
Sěriak	<i>rěda</i>	to abate, of rain.
Sěriau	<i>nilu, nyilu</i>	on edge, of teeth.
Sěronok	<i>suka ria</i>	gay, merry, interesting.
Sětar	<i>kundangan</i>	a large tree with a small round acid fruit, edible.
Sigolak	<i>kolak-kolak</i>	a gambling game with dice and squares numbered 1 to 6.
Sila †	<i>jěmput</i>	to invite, please; in Penang <i>jěmput</i> only means to pinch.
Shelum (da-un selom)	.. ..	.. an edible leaf, often put into salad. (<i>kěrabu</i>).
Siap	<i>sědia</i>	ready.
Simpan	.. ..	.. to tidy up, to bury.
Siput běran-tai	.. ..	.. a small bivalve found in clusters in salt-water and used as duck feed.
Sukat tanah	<i>ukor tanah</i>	to take measurements of land.
Suku duit	<i>sa-duit</i>	a quarter cent.
Suku-suku depa	. ..	.. their crowd, amongst themselves.
Tabut	<i>rudu</i>	a Kling idol.
Tajin (tě-pong)	<i>kanji</i>	starch.
Takat	<i>senggat</i>	up to, as far as.
Tajok dayong	<i>tol*</i>	thole pin.
Ta larat	<i>tada daya</i>	unable to do a thing from physical weakness.
Tali	<i>pintar</i>	wily, a clever rogue, a deceitful rascal.
Tali kěrang-an or tali kanjang		a specious person with a good address.
Tambun	<i>timbun</i>	to heap up.
Těbeng	.. ..	.. to persist in any course in spite of warnings, <i>těbeng main lagi</i> = to persist in playing after having been told not to.
Těku	<i>těkun</i>	assiduous, <i>běrtěku-těkat</i> = most assiduous.
Těmbun	<i>těmbun</i>	plump.
Tembu	<i>běri hati</i>	to encourage, to buck up, to assist.
Těmuchut	<i>chěrunchup</i>	love grass.
Těmukut	<i>mělukut</i>	broken rice, rice dust.

PENANG.	SINGAPORE.	
Tenyeh	<i>genyeh</i>	to rub with finger as in erasing writing.
Těnggak	.. ..	.. to essay; bearing; sure; <i>těnggak anak raja</i> = the fine bearing of a prince. <i>choba těrtěnggak-těnggak lagu itu</i> try and essay that tune.
Těngglong	<i>pěnanggal</i>	an evil spirit consisting of a head and dependent viscera.
Těrgěliat	<i>těrkehel</i>	to sprain, out of joint.
Tibai	.. ..	.. to wallop, to thrash with a stick.
Timun betek	.. ..	.. a much relished variety of squash melon.
Tinas	<i>tindas</i>	to crack a flea.
To'chan	<i>china buta*</i>	blind man's buff.
Tuas	.. ..	.. bamboos moored in deep water with brush wood attached to collect fish.
Tungap	.. ..	.. to die.
Ubi ikan	<i>běbulus</i>	a fish, like whiting.
Ular danu	<i>pělangi</i>	the rainbow.
Wau	<i>layang-layang</i>	a paper kite; <i>layang</i> only means a swallow in Penang.
Wayang gě-lap	<i>wayang gambar</i>	a cinematograph performance.
Yat	.. ..	.. a burrowing crustacean not unlike a beetle found in the sand at the water's edge; edible.
Yue	.. ..	.. matted marsh grass over water which will bear a person's weight if stepped over quickly, <i>běryue-yue</i> = to give as the above when walked on.

NOTE:—Words under the heading Penang marked † are either understood in Singapore but not used, or at least not in such general use as the similar word given under Singapore.—Words marked with an asterisk under the heading Singapore are not understood in Penang.

A Vocabulary of Pangan.

By T. S. ADAMS.

Malayan Civil Service.

This list of words used by the Pangan of the Ulu Nenggiri below Kuala Betis in Kelantan was begun by me when I spent a day with the three chief Pangan and some forty of their followers in 1914. Circumstances prevented my remaining any time among them but I was able to induce one young man with some knowledge of Malay to come down to Kuala Krai in 1916 and during the three weeks in which he lived near my house I collected this vocabulary. I had hoped to check the words through a further visit to the Ulu but ill health prevented it and now it seems to me better to publish it in spite of errors so that some one else, who may have an opportunity of getting to know these people, may use this vocabulary as a foundation for a more thorough one. These words are used by the river Pangan who trade with Malays in jungle produce and whose clearings are on the foothills near the river. Inevitably a certain number of Malay words are in use and I was informed that the Pangan of the higher ranges employed words not in ordinary use among those on the river.

I would thank Dr. Winstedt for preparing my rough manuscripts for publication and for making references to the words collected.

Batu Gajah,

October 18th, 1920.

Pangan Vocabulary

from

Sungai Nenggiri, Kelantan

NOTE. References are given to the Vocabulary in Vol. II of Skeat and Blagden's "Pagan Races of the Malay Peninsula."

A.

- ABOVE (*atas*) m'bali.
 „ (*di-atas*) ta'el m'bali.
 „ (*dari atas*) m'bali te'erik.
 ABSCESS *sél Sak.*, A. 14.
 ABUSE *ëmarah*, *ngaroh*.
 ACCUSE *adu Mal*.
 ACCUSTOMED *biasa Mal*.
 ACID *bëchuid*.
 ACKNOWLEDGE *aku Mal*.
 ACRID (*këlat*) *tërók këlad*.
 ACROSS (*sa-bërang*) *mëlant* tiu.
 ACT *tinda'el*, ? D. 132.
 ADAM'S-APPLE *kalar*.
 ADDLED *këmlang*.
 ADZE (*bëliong*) *jek Khmer*, A. 33.
 „ (*puting*) *puting Mal*.
 AFRAID *ëttu Sak.*, F. 48.
 AFTER *monyut*.
 AGAIN *péti lagi*.
 AGE *roak*.
 AGILA WOOD *gaharu Sk.*, *Mal*.
 AIGRETTE *é Chadog*.
 ALIVE *tigös Sem.*, *Sak.*, A. 57.
 ALL *ti sèkali Sak.*, A. 63.
 ALONE *déri egagul*, A. 70.
 ANKLE *deldu*, F. 220.
 ANOTHER *sënoi-i suku Sak.*, M. 26.
 „ TIME *nainong nainong*.
 ANT (*sëmut*) *kabed*, ? *Sak.*, A. 107.
 „ (*këréngga*) *kāsod Sem.*, A. 101.
 „ (*anai-anai*) *garush*, A. 110.
 „ (*pënyëngat*) *sëmud*.
 „ BIG, *kabed tampul*.
 „ BLACK *kajé*.
 „ RED *këtéd*.
 „ SMALL *sëmür*.

- ANT-EATER wajoud.
 APART langu war.
 APE (*lotong*) tabuk.
 „ (*kēkah*) bērkis *Sak.*, M. 137.
 „ (*kēra*) jela-ow *Sak.*, M. 142.
 „ (*bērok*) bawaidj *Sem.*, M. 134.
 „ (*siamang*) amang *Mal.*, M. 159.
 „ (*mawah*) hawan.
 ARECA blök, A. 125.
 ARGUS-PHEASANT kwok *Sem.*, B. 215.
 ARM sapal, A. 135.
 ARMADILLO wajuoj.
 ARMLEET kenélah *Pang.*, R. 133.
 ARMPIT senok.
 ARRIVE (*sampai*) éloi, énglői *Pang.*, A. 145.
 ASCEND éoiij *Sem.*, A. 154 (b.)
 ASHES habu *Mal.*
 ASK, TO sēmoin *Mon*, A. 165.
 „ FOR, TO éudj.
 ASLANT na rondong ? *Mal.*
 ASLEEP slug *Sak.*, S. 249.
 ASSEMBLE termah.
 ASTONISHED (*tērķējut*) ékējjud *Mal.*
 „ (*hairan*) vinim.
 ASTRAY rajarudj.
 AT (*dī*) tan'él.
 ATAP (THATCH) kēndrob. *Sak.*, R. 167 and 169.
 ATTACK tumpūt.
 AUNT mo'ar, muar.
 AWAIT épod *Sak.*, W. 5 and 6.
 AWAKE épog *Sem.*, A. 190.
 AXE kapak *Mal.*

B.

- BACK kērit, B. 4.
 BAD chēlaka *Sk.*, *Mal.*, jahad *Mal.*
 BAIT prat.
 „ , TO TAKE nacha prat, E. 27.
 BALD natā.
 BAMBOO awat *Sak.*, B. 29.
 „ (*akar*) kiul, ? B. 22.
 „ (*kisap*) tēmīng, B. 28.
 „ (?) tahel.
 BANANA tēluwi *Sem.*, B. 42.
 „ jâ-i *Sem.*, *Bahnar*, B. 48.
 „ mamóh.
 BANK (of river) tēbing *Mal.*
 „ (*tēpi*) mabék

BARB *cheh*.

BARK (*of tree*) *katok*.

BARK, TO (*of dog*) *najöl Sem., B. 59.*

BASKET (*raga*) *rajud Mal.*

„ (*galas*) *safud.*

BAT (? FRUIT-) *lasar, B. 79.*

„ (*red*) *gavék.*

„ (*kěluwar*) *lawar Mal.*

BATHE *moh Sem., Sak., B. 81.*

BAY (*tělok*) *göl.*

BE *mô Sem., Sak., B. 88.*

BEAD *nemad, E. 83.*

BEAK *balok.*

„ (*of hornbill*) *kachak.*

BEAR (*běruang*) *kawi Sem., B. 103.*

„, TO (*a child*) *bagerud, C. 106.*

BEARD *sěntal jěkah, H. 2 and C. 113 (a).*

BEAT *ěpeluk, S. 496.*

„ (*do'nt beat*) *jě a ěpeluk.*

„ (*bark*) *ěkóh.*

BEAUTIFUL *mej., G. 66.*

„ WOMAN *babô, G. 63.*

BE(KON (*to come*) *nagajuaaj, T. 85, G. 43.*

„ (*to point*) *telék.*

„ (*to wave*) *ěpiul.*

BEE (*kělulut*) *těbúl Sem., B. 136.*

„ (*lěbah*) *hu Sem., B. 137.*

„ (*lěbah lalat*) *langir.*

BEFORE (*dahulu*) *ningneng, T. 51 (e).*

„ (*in front*) *dadu Mal., B. 380 (e).*

BEGIN *sarô.*

BEGINNING (*pangkal*) *těrô Sak., T. 210.*

BEHIND *namut (nvut?)*

BELIEVE *pohava Sk., Mal.*

BELOW *kěrop Sem., B. 165.*

BELT *kěndi (? Mal. kěndit).*

BEND (*of river*) *tanvuk Mal., C. 25.*

„, TO *jengog.*

BERTAM *běttoh Sak., B. 784.*

BETTEL *blok, A. 125.*

BICEPS *urad Mal., apal, A. 135.*

BIG *měnug, mēnā, mēnu Pang., B. 203.*

„ TREE *tabu, těbo Sem., B. 202.*

„, VERY *ravā Mal.*

BIRD *chep Sak., B. 216: (unid.) prôt, réhéreng, těngalak, baliek, ujé, hingkar.*

BITE (*of snake*) *nakab Sem., B. 228.*

„ (*of other animals*) *nekab Sem., B. 228.*

BITTER *kēdeg Sem.*, B. 232 (a).

BLACK *renga Sak.*, B. 236.

BLOOD *loot Sak.*, B. 248.

BLOW *tohōl*.

BLOW-PIPE *ēlso* (cf. *Sem. sēnlu* and *Kenaboi sēláu*, B. 261).

„ (*barrel of*) *yō*, ? B. 296.

„ (*thinner end*) *lok*.

„ (*inner*) *ulah*.

„ (*pictured ornament on*) *chukéd*.

BLUNT *seil*.

BLUSH *senging*.

BODY *olah*, ? *Sem.*, B. 321.

BOIL, A *bisa*.

BOILING (*of water*) *na' dideh Mal*.

BOIL, TO *tērbud*, H. 142.

BONE *jaāk Sak.*, B. 336.

BOUGH *tabah Sak.*, B. 345.

„ (*tree-fork*) *chabak*, *champang*, B. 345.

BOUNDARY *nehob*.

BOW (*weapon*) *lōot Sem.*, B. 354.

BOWS (*of boat*) *kēd*.

BRACELET *glāk (Mal. gēlang)*.

BRAINS 'mog. ? cf., H. 48.

BREAK *pīlak Sem.*, B. 372.

„ (*string*) *gītoid Sem.*, B. 374.

BREAST (*chest*) *dāda*.

„ (*bosom*) *bôt Sem.*, B. 386.

„ (*hollou of*) *chemob*.

BREATH *hēmhum Sak.*, B. 339.

BREATHLESS *gēshoi*.

BRIDGE *édur lug Sen.*, B. 391.

„ (*plank of*) *édur papan*.

BRING *kerop*.

„ FORTH *niyos*.

BROTHER, ELDER *kēlii*, B. 415 and 421.

„ YOUNGER *pīi't*, ? B. 420 and 413.

„ -IN-LAW *mēnâi Sen.*, B. 419.

„ „ ELDER *k'nggöing*, L. 21.

BUILD, TO *tael Sak.*, D. 132; *b. a house tael dik*.

BURN *nyo*, B. 463.

„ (*a clearing*) *é chur*, B. 467.

BURNT (*tērbakar*) *ako*.

„ (*hangus*) *nagi*.

BURY *tap. Sem., Mon.*, P. 132.

„ (*a person*) *kērup*.

BUTT *brol*; *point of dog*.

BUTTERFLY *tawag Sem.*, B. 481.

BUTTOCKS *janggab Sak.*, B. 483A; *tabrohked.*
 BUY *bêh Mal.*

C.

CALL, TO *kó Sem.*, C. 8.

„ (*tiger-call*) *kwi.*

CARRY (*under arm*) *kilid.*

„ (*in both arms*) *kod na tik, H. 15.*

„ (*home*) *tërma ni a dik.*

CATERPILLAR *kémor Sak.*, B. 143 (a).

CATCH *chab Sem., Sak.*, C. 49.

„ (*of tiger*) *rot Sak.*, C. 50; (*of bird*) *jantus.*

CAVE *gogob (= Mal. gugup), H. 117A.*

CENSER *səbo' chērios.*

CENTIPEDE *ke'éb Sem., Khmer.*, C. 66.

CENTRE *səma pēdik Sem.*, M. 100.

CHAFF *antah.*

CHANT (*of wizard*) *lamor.*

CHARCOAL *chěngka Sak.*, C. 77.

CHASE *hō, F. 210.*

CHEEK *kapon Sem.*, C. 81.

CHEVROTIN *pēlandok Mal.*

CHICKEN *kuis pug, F. 255.*

CHIEF *pěngghulu Mal.*

CHILD *kuis sendi, C. 102.*

„ *yôs.*

CHIN *jaka Sem.*, C. 113.

CHOKED *sěgshog Sem.*, C. 119.

CIVET-CAT *orar, jajô, k'inghut.*

CLAW *chěndros Sem.*, N. 7.

CLAY *pechi (Khmus petté), E. 12.*

CLEANSE *sad, Sem., Sak.*, C. 142.

„ (*with water*) *git.*

„ (*the teeth*) *é sig.*

CLEAR (*a path*) *chah Sem.*, C. 296.

„ „ *harék.*

CLEARING *səlai.*

CLENCH *kod.*

CLIMB (*a hill*) *tengu.*

„ (*panjat*) *oid, A. 155.*

CLIMBING PLANTS *tingtek.*

CLOSE *chartu.*

„ (*near*) *unyon, S. 198.*

CLOUD *sagup Sem.*, D. 16 (c).

COBRA *taju slé' Sem.*, S. 311.

„ „ *HOOD OF slé'.*

COCK *pug nanoi Sak., Sen.*, F. 255.

R. A. Soc., No. 85, 1922.

CRY (*weep*) maiyab, C. 285.

CURLY sog ba' rotan H. 1.

CURVED kénuain

CUT chok C. 296.

„ këtus C. 297.

„ (bēlah) pug.

D.

DAM nyor

DAMAR got R. 72.

„ sēgar tēbōl.

„ (lutang) got chah.

DANCE krejēr.

DARK rengah Sak, B. 236.

DART sipéd.

„ (butt of) brol Sem, B. 301.

„ (point of) lajar.

DAUGHTER mēnalih.

„ -IN-LAW nensab.

DAWN mad is E. 83 & D. 35.

DAY (*siang*) hoidy ess is D. 35.

„ (two days hence) maiya Sak, D. 42 (b).

„ (lusa) nar (=dua) T. 272.

DEAD kēbus, hoig kabus. V. Corpse.

DEAF tuli Mal.

DECAYED (*burok*) hoidy sōh, 292 (b).

DEER (*rusa*) kasing D. 68 (a) & 81.

DEEP smdrok D. 66.

„ (of sleep) dāt kēnyang.

DELIRIOUS sasan Mal.

DELIVERY (*sudah bēranak*) hoidj moh huis.

DESCEND rik Sak, D. 96.

„ (tējun) ta, D. 93.

DEW tēngmēng Sak, D. 102.

DIG pus D. 107 (b).

DIGGING-STICK ad, D. 109.

DIP (*hand in water*) rog :-e rog.

„ ma tiu.

„ (clothes) é ried.

DIRT (*on teeth*) ejed moing. T. 170.

„ (*under nails*) ejed chēndros. N. 1.

DISAPPEAR sēnyab Mal.

DISEASE (*of skin*) tani.

„ (*kurap*) gas Sem. I. 46.

„ (*kudis*) manghi ? I. 51.

„ (*panau*) panu Mal.

DISLIKE na leglug Sem. L. 17.

DISTANT jěrô F. 29 (a).

DIVE slâp.

DIVORCE prak:—babo hoidt na prak *a woman gets a divorce.*

DIZZY tuitch.

DO tael Sak, D. 132:—yé toit tael = yé wud = *lazy.*

DOG chuak Sem., Sak, D. 143.

„ WILD chelök Sem. D. 148.

DONE, FINISHED hoidj, juil. A. 63.

DON'T jét; *don't go* jé achit; *d. sleep* jé aslog; *d. do it* jé at tael.

DOOR prengkâl Sem., Sak. L. 1.

DORSAL FIN chedél.

DOWN kroh D. 96, 165.

„ STREAM é halab Sem., Sak. D. 158.

DREAM é pok Sem., Sak, D. 168.

DRESS, TO eni. E. 76 (c).

„ (*to don clothes*) eni abat. Sak. C. 173.

DRIFTING é kwid. Sak. D. 163.

DRINK ök. D. 165.

DRIZZLE amis. Sem. R. 7 (a).

DROP (*of river*) këlut endré-endré.

„ (*of liquid*) pimés-pimés. R. 7 (a).

DROUGHT (*season*) penpik.

DROWNED na sčnag.

DRUG ubat Mal.

DRUM baták.

„ (*to beat*) é pad baták.

DRUNK é kok ?D. 165.

DRY karich; *dry fish* kâ karich.

„ (*of padi*) salai.

DUKU chendruk.

DURIAN sempâ Sem., Sak. D. 189.

DYE öid.

E.

EACH nache nana.

EAR gintok Sem., Sak. E. 6 (a).

„ PENDANT suntik (*Mal. sunting*).

EARLY chinchuk.

EARTH (*bumi*) balik.

„ (*tanah*) tê Sem., Sak. E. 12.

EARTHWORM chachik (*Mal. chaching*).

EAST bengkah mat is D. 45, D. 35 & E. 83.

EAT chak, en chak E. 27.

EBONY chěngka Sak. C. 77.

ECLIPSE ghana. (*Mal.*).

EDGE (*of knife*) gěni.

EEL bēlud Mal.

EGG tab Sem., Sak. E. 36.

- EGG-SHELL *singkor*, *senhur* S. 234.
 „ *chegod* ? S. 234.
 ELBOW *kěnông* *Sem.*, *Sak.* E. 42.
 „ *kenû*.
 ELEPHANT *chi'g* *Sak.* E. 49.
 ELEPHANTIASIS *tanig*.
 EMBERS *renghong* *Sem.*, *Sak.* C. 77 (b).
 EMBRACE *é* *öwe*.
 END (*ujong*) *söi*.
 ENOUGH *hoid chukub*.
 ENTER (*a house*) *moij medik* *Sak.*, E. 77.
 ERECT *é tud*.
 ESCAPE *hoidj na dadok*.
 EVENING *läák* *Sak.* D. 18.
 EXTRACT (*chabut*) *roid*.
 EXTINGUISH *pud Pang.*, *Sak.* B. 256.
 EYE *mad* E. 83 (a).
 „ -BROW *chinchuig* *Sem.*, B. 431.
 „ -LASH *sempoi* *Sak.* E. 85.
 „ FLY *grimolu*.

F.

- FACE *mad* (=eyes).
 FADED *layu* *Mal*.
 FAINT (*pengsan*) *kěrlib* *Sem.* D. 119.
 FALL *kěluk* F. 13 (b).
 „ (*of tree*) *kül* F. 13 (a).
 FAR *jěro* F. 29 (a).
 FAST *děras* *Mal*.
 FASTEN, TIE (*tambat*) *é bug* *Sem.*, *Sak.* B. 213.
 FAT *bachôk* *Sem.* F. 34.
 FATHER *bür* *Sak.* F. 40.
 „ -IN-LAW *blo'* *Sak.* L. 22.
 FEAR *tu* *Sak.* F. 48.
 FEATHER *sentol* *Sak.* H. 2.
 FEED *ugna cha*.
 FEEL, GROPE *epud*.
 FEEL, GROPE (*rasa*) *ji*.
 FELL, (*těbas*) *e rô*.
 „ (*těbang*) *gii* F. 20.
 FEMALE *babok* *Sem.* *Sak.* F. 61.
 FENCE *erded* F. 79.
 FEVER *ji* *Sem.* S. 187; *děkad* S. 185.
 FICUS *sog*.
 FIN (*of fish*) *chingké*.
 FIN (*caudal*) *poid sěntar*.
 FINISHED (*habis*) *hoidj yül* F. 115.
 FINGER (*little*) *ki'yit*.

FIRE *ô*s *Sem.* F. 124.

FIREBACK-PHEASANT *pëgôr Mal.*

FIREFLY *jalid.*

FIRE-PLACE *owal (ôal) Sak.* F. 129.

FIRST (*dahulu*) *nengneng anin.*

FISH (*angle with rod*) *kail Mal.*

„ (*with line*) *sëndrai F.* 144 A.

FISH *a* *kâ F.* 138.

FISHES *ikan tēlan ka nalog.*

„ *kâjar kâ keju.*

„ *kēlah pēlah.*

„ *rong rūk.*

„ *sēlinang sēlimang.*

„ *buang bauk.*

„ *aruan ka ruân.*

FISHING-ROD *bawor.*

„ -TRAPS *hubu, tuar, slapû Mal.*

FISH-WEIR *marêk.*

FLAY (*take skin*) *kord katô S.* 236 (c).

FLESH *sig Sem.* F. 170.

FLINT *batu kawit.*

„ *rug S.* 462.

FLOAT *lumpang Mal.* F. 175.

FLOOD *tin ba'ag F.* 178 & W. 30.

FLOOR *nis Sem., Sak.* M. 62.

FLOWER *bunga Mal.*

„ (*white*) *bunga ėmping.*

FLUTE *sene 'oi F.* 195.

„ (*small*) *bangsi. Mal.*

FLY, TO *mahek.*

FLY, A *laled Mal.*

FLYING LEMUR (*kubong*) *kayô.*

FOAM *bubah Sem.* W. 42.

FOETUS (*in womb*) *makô (= egg) E.* 34.

FOLLOW *bērchü G.* 34.

FOOT *juk Sak.* F. 220.

FORBID *jet D.* 123.

FORE-ARM *chēndrek Sak.* F. 134 (b).

FORE-HEAD *petuk Sem.* F. 228.

FOREST (1) *sengrok Sak., F.* 231 (b), *to the f. ma sengrok*
A. 176.

„ (2) *sērak Sak.* F. 231 (b).

„ (3) (*sēmak*) *lēmug Sak.* B. 442.

FORGET *wil ? D.* 120.

FORKED *champang.*

FOWL *pug Sak.* F. 255.

FRESH (*of water*) *hērék Pang., Sem.* N. 49.

FROG (*tuli*) sěndrai.

„ (*deman*) tebeg *Sak.* F. 268., karog F. 272.

„ lingkong *Pang.* F. 270.

FROND (*coco*) sělah *Sem.*, *Sak.* L. 32.

FRONT, IN dada.

FRONT (TOOTH) (*moing*) nus T. 170 & 168.

FRUIT beruk.

FRUITS:—

(*unid*) rarô.

(*tampui*) tampa, tabeng *Sem.* T. 19.

(*kabang*) kabak ?R. 28.

(*rambulan*) shushog II. 1.

(*městar*) městar.

(*gomok*) hu.

(*pisang*) těluwil B. 42.

(*aboh mas*) brikleg.

(*jinteh*) ranik.

(*rambai*) rambi *Mal.*

(*duku*) chěndrok.

(*pulasan*) grak, pahid R. 25, P. 225.

(*tebedo*) děkôh.

FRUIT-BAT kěluok. B. 78.

FULL tebik *Sak.* F. 290 (b).

FUNGUS (*tall*) běrbut.

„ (*tree*) běrpog.

G.

GAPE go hōi *Sem.* M. 199 (a).

GAROTTE chěkéğ *Mal.*

GASP (*pant*) sěluđ.

GAZE (*tengok*) ené S. 75 (a).

GET (*dapat*) evû; na bu.

„ (*fruit, jolok*) yōk.

„ (*pick up*) chod *Sak.* P. 68.

„ „ UP, ASCEND děvod.

„ „ „ , ARISE wog *Pang.* A. 156 (a).

GHOST saró *Sem.* G. 16.

GHOST jani kimort *Sem.* G. 18.

GILLS kěnyar *Sem.* G. 23.

GINGER kayar.

GIVE ôğ *Sem.*, *Sak.* G. 29.

GLUE (*for shaft butt*) kedréđ.

GNAT (*agas*) kěbö *Sem.*, *Sak.* M. 180 (b).

GO jib *Sem.*, *Sak.* G. 42.

„ THERE jib manâ.

„ UPSTREAM galah *Mal.* U. 26 (a).

„ OUT hoidj howal.

GONG gok.

GOOD meg *Sak.* G. 66.

„ (*halus*) momis (e.g. *bangsa*).

JOKE (*with horn*) timpah.

„ (*with tusks*) nakah.

GOURD sumbang.

„ (*for water*) labu *Mal.*

„ (*kundor*) sērdag.

„ (*pētulah*) mēngkai.

GRAND-CHILD chuchor *Mal.*

„ -FATHER yak *Sem., Sak.* G. 87; dato' *Mal.*

„ -MOTHER jaja batu, *Sak., Sem.* O. 20, F. 61.
ya *Sem., Sak.* G. 87.

GRASP pegak.

„ (*stretching for*) kord.

GRASS rumpud *Mal.*

„ (*akar batu*) temtop.

GRASSHOPPER bilalang *Mal.*

GRATE huhur.

GRAVE saro' G. 16; *he digs a g.* é pug saro'.

GREAT-GRANDSON chinchit *Mal.*

GREEN belaur *Sem., Sak.* W. 98 (c).

GREY (*uban*) sakol.

GRIND (*qiling*) gērlid.

GRIPES jani kabkud *Sem.* B. 160 (a).

GROPE pud pôm.

„ (*pass hand over*) slû.

GROUND tē *Sem., Sak.* E. 12 (a).

„ (*rising*) tē lut.

GROW (*of hair*) lôt.

„ (*of plants*) ehnaï.

„ (*of child*) hit.

GROWL kui ah; hirr.

„ (*of tiger, elephant*) krik *Sak.* G. 124.

„ (*bark of dog*) jul *Sem., Bes.* B. 59.

GRUEL (*rice*) mēngm.

GUITAR (*stringed instrument*) jurik.

GUMS lengchit *Sak.* G. 128.

GUATTA chēbō *Sak.* S. 31.

„ (*ara*) chēbō sog.

H.

HAIR sog *Sem.* H. 1.

„ (*of body*) sēntol *Sak.* H. 2.

„ (*of legs*) sēntol kēmong C. 5.

„ (?) sēntu mūr.

„ (*of armpits*) sēntol sēnok.

HALT halek.

HAMMER pēnluk.

HAND tik Sak. H. 15.

„ (back of) tapak tik (cf. tapai ting H. 15).

HANDSOME meg Sak. G. 66.

LANG jōl Sem. H. 25 (a).

„ (of bees' swarm) tabak; they h. in swarms na gul en tabak.

HARD chēgod Sem. H. 31.

HASTILY (lēkas) kēnyang Sem. Q. 6.

HATCH cheh Sem. B. 373.

HEART (hali) e bud.

HAWK (bird) klak Sak. E. 4.

„ (in spitting) sladik.

HAVE (ada) mok Sem., Sak. B. 38.

HE nana Sak. T. 51 (e).

HEAD kui Sem. H. 46.

HEAD-BAND tingtek.

HEAD-DRESS tempo'.

HEAD-MAN batin Jak.

HEAP (to, earth into grave) dūt; h. wood on fire kod tama
dūt pāhōs.

HEAR kiōk Sak. H. 60 (c).

„ (distinctly) ta' lalah.

HEAVY nyoh Sem. H. 88.

HEEL dēldul Sem. H. 69.

„ (back of) katik.

HELP tolūk Sak. H. 73.

HERE anōh.

HERON dēnak.

HICCOUGH segdug.

HIDE kerdūt, kērdū.

HIDEOUS la'ūs U. 7.

HIGH jērōk Sak. D. 66.

HILL jēlma Sem., Sak. H. 87.

HILLOCK tangkōl.

HIP janggab Sak. B. 483 A.

HITHER chi maduh.

HOARSE gagab (? = Mal. gagab).

HOLE (of snakes) sēndrok.

HOME (to go h.) ma dik Sak. A. 176, H. 153.

HONEY lek Sem. H. 119.

„ -COMB sorp.

HOOK (for fish) mad kail E. 83. + Mal.

HORN palok H. 126 (a).

„ -BILI nahég; tērip: (rhinoceros) tukub Sem. H. 133.

HORNET (panah lang) hug, hong, Sem. H. 135.

„ (lēbuan) éng-wang.

„ (kērawai) kērawai Mal.

HORSEFLY (*pikat*) chapud *Pang.* H. 138.

„ (*small*) galul ?F. 200.

„ (*smaller*) sčbik M. 180 (c).

HOT buid *Sem.* H. 142.

HOUSE dik *Sak.* II. 153.

HOW rélok *Sak.* W. 77 (b).

HUM (*of flying bees*) hek, chenghek.

HUNGRY chěrôk *Sak.* H. 169.

HURT (*wound*) pok W. 142 A.

„ (*burn*) siek.

„ (*smart*) pajid.

HUSBAND tö *Sak.* M. 16.

I.

I hä I. 3.

IBOL ibul (*Mal.*).

ILL ji' *Sem.*, S. 187 (a):— *the man is ill* sčnoi na ji'.

ILL (*seriously*) brâp.

IN kčloud *Sak.* I. 27.

INCISE sčr.

INSIPID (*of food*) belap.

„ (*basi*) nasi uk.

INTESTINES eb hik B. 161.

INTOXICATED ko' *Sem.* V. 22.

INVULNERABLE to' lab.

IPOH (*poison*) jelók ?P. 175.

„ („) rok.

„ (*a creeper*) bčrill.

ITCH (*kudis*) mčnghing.

„ (*kurap*) gčas *Sem.* I. 46.

„ (*puru*) choid *Sem.* I. 45.

ITCHY bčhetch.

J.

JĚLUTONG trok badok *Sem.* J. 4.

JESTING chachor.

JOIN (*ubong*) cherod J. 9.

JOIST (*gčlčgar*) chčnáro.

JUGULAR VEIN na lčd (?).

JUNGLE (*big*) té ryā E. 12.

„ (*medium*) té amis.

„ (*bčlukar*) lčmog *Sak.* I. 442.

K.

KAMPONG sčpüah. ?II. 159.

KĚLĚMBAI Kčlčmbai.

KICK (*backwards*) tčt *Sem.* K. 25.

„ (*sepak*) sipah.

KILL phlûk ?H. 126 or B. 257.

„ (*self*) é phluk olah hari.

KITCHEN wal Sak. F. 129.

KNAPSACK (*small*) ranoh.

„ (*big*) raiah.

KNEE karöl Sak. K. 41.

„ sip.

KNEE-CAP ho karöl Pang. K. 40 (a).

KNEEL kelkröl ?B. 176.

KNIFE landab.

„ (*edge of*) gëni.

„ (*blade of*) paheng C. 126.

„ (*handle*) rëmpagi.

„ (*pisau raut*) raud Mal.

„ (*parang*) kenguin.

KNOT, TO kual.

KNOW, TO lék Sak. C. 160.

KNUCKLES tolak tenlek.

L.

LADDER rengkaug Sak. L. 1.

„ (*sigai*) chuad.

LARGE raiya Mal., Sk.

LATHE sisak.

LAY (*eggs*) tab. Sem. E. 36.

LEAVES sëlâ Sem. L. 32.

LEAK bochor Mal.

LEÂN (*thin*) suâk ?T. 68.

„ (*incline*) chundut.

„ „ (*against*) dudau.

LEAN, TO dangor Mal.

LEAP (*down*) nata.

„ (*as monkey*) lompad Mal.

LEARN tëning lek C. 160.

LEARNED hoidj e lek.

LEAVE prâh ?A. 65.

LEAVINGS sisak Mal.

LEECH (*lintah*) jëtû L. 4.6.

„ (*pachat*) kantang.

LEFT-HAND (*side*) ma' yil L. 48.

LEG (*calf*) këmong Sak. C. 5.

LET balai.

LICK böid Sem. L. 64.

LIE (*to*) gô ?F. 20.

„ (*down on arm*) nam sëlög Sak. S. 249; chëning.

„ (*on back*) na bërpah.

„ (*face down*) këmkûp.

- LIGHT (*in weight*) haiyó' *Sem.* L. 79.
 „ (*a fire*) nyor ôs *Sem.* F. 124.
 LIGHTNING kilad *Mal.*
 LIKE (*suka*) na hod *Sem.* W. 14 (b).
 LIME (*for birds*) chébur.
 LINE sëndraí.
 LINED (*wrinkled*) karud *Mal.*
 LIPS sentor *Sak.*, H. 2.
 LISTEN kiyok *Sak.*, H. 60. (c).
 LITTLE amis *Sak.*, S. 281.
 LIVE (*dwell*) gül *Sak.*, S. 222 (a).
 LIVER hup *Sak.*, B. 380 (a).
 LIZARD to' keh, chéag.
 „ (*měngkarong*) tarog.
 „ (*flying*) chalóg *Sem.*, L. 115.
 LOFTY jěrok *Sak.*, D. 66.
 LOIN-CLOTH lat ?E. 76 (b).
 LONELY sengô.
 LONG (*since*) líu *Sak.*, O. 21.
 „ (*in space*) jěrók *Sak.*, D. 66.
 LOOK (*at*) nê *Sak.*, S. 75 (b).
 „ (*aside*) pad; chenleg.
 „ (*down*) nê matê = *Sak.*, D. 96.
 „ („) nê habalik.
 LOOSE (*longgar*) kalok.
 „ (*lepas*) těrhuat.
 LORIS tampil.
 LOSE alah *Mal.*
 LOSS (*rugi*) pimah.
 LOST é rejěruj *Sem.*, L. 140.
 LOUSE ché *Pang.*, *Sem.*, F. 169.
 LOW ěnté' *Bes.*, E. 12 (c).
 „ (*country*) lěgup.
 LOWER jât.
 LUMINOUS (*of cats' eyes*) chěra' nglang.

M.

- MAGGOT kěmor *Sak.*, B. 143 (a).
 MURAI bėrai.
 „ HUTAN chem tap B. 216.
 MAIDEN mėnaleh *Sak.*, G. 28.
 „ kėdhud.
 MAKE, TO ta'el *Sak.*, D. 132.
 MALE (*young*) léotó *Sak.*, M. 16.
 „ (*old*) tėtâ M. 16.
 MAN sėnoi *Sak.*, M. 26.
 „ (*very old*) král.

MANGO manchang, *Mal.*

MANGOSTEEN sēmēsta', mēsta M. 36.

MANY kēmbir.

„ (how?) rop sēnoi W. 80 (b).

MARK (painted on face) 'nggep.

„ (tattoo) chemod.

MARRY na terma.

MASSAGE é sēgi'.

MAT (tikar) apil *Sem., Sak., M. 63 (a).*

MATCHES siab.

MEASURE sukad *Mal.*

MEAT sig *Sem., F. 170 (a).*

MEDICINE ubad *Mal.*

MEET bu *Sem., M. 80.*

MELT hanchur *Mal.*

MEMBRANE (of egg) péher.

MĚMPĚLAS (leaf) pasug.

MĚNGKUANG séké' ?P. 28 kajak.

„ (pandan) panat.

MĚRANTI (tree) bodag.

MĚRBAH (bird) chachar.

MIDDAY bēkud *Pang., H. 141.*

MIDNIGHT laiyég *Sak., D 18.*

MIDST (sama) pēdik *Sem., Sak., M. 100.*

MIDWIFE (old woman) jajar.

MILK bōt *Sem., Sak., B. 386.*

MILLIPEDE (black) taluk *Sem., B. 141.*

„ (red) tilong ?B. 141.

„ (red luminous) kéjej.

MILLET jēnlai *Mal.*

MINE ri: it is m. ri yé.

„ ria ap.

MIST sagub *Sak., D. 16 (c).*

MOLAR moing tēngip *Sak., T. 170.*

MOMENT IN A (instantly) sēlab.

MONITOR-LIZARD (biawak) baget *Sem., L. 119.*

„ „ (gēriang) gēriek.

MONKEY (lotong) talu' *Sem., M. 147.*

„ (kēra) jilao *Sem., M. 142.*

„ (bērok) bawaj *Sem., M. 134.*

„ (unid) kakok bērkas ?M. 130.

MOON gēchék *Sem., Sak., M. 161: there is no m. hoid da gēchék;*
new moon gēchék pāi; rise of m. huwal, set kenchog.

MORNING chenchuk.

MORTAR gōl *Sak., M. 179 B.*

MOSQUITO kūbuk *Sem., M. 180 (b).*

MOSS samuil; lerbur.

MOTH jěřęgad.

MOTHER nyoh M. 193.

„ -IN-LAW blók Sak., 22.

MOUNTAIN jěłmol Sem., H. 87.

MOUSE-DEER (*napoh*) napoh Mal.

„ (*kanchil*) bechok.

„ (*pělandok*) pělandok Mal.

MOUTH nyang Sak., M. 199 (b).

„ (*of river*) bok.

„ (*to put in mouth, suap*) é lut.

MOUTH PIECE (*of blow pipe*) těboh Sak., B. 272.

MOVE (*pindah*) jog Sem., G. 43.

MUCUS léhieł S. 391.

MUD lěbák Sak., M. 214.

MUSH (*straw*) hadá.

MY (*father*) ri haba bu.

N.

NAIL chěņeros Sem., N. 1.

NAME kěņii' Sem. N. 8: *what is his n?* ulok nama kěņii'?

NARROW nęd.

NAVEL pamk Sem., N. 17.

NEAR dękad Mal.

NECK (*nape of*) tang'u. Sak., N. 27.

NECKLACE gaj nęij.

NECK charuag.

„ (*valley*) loag.

NEPHEW kuman N. 41.

NEST (*of bee, bird*) sęp: *bird's n.* sęp chep.

NEW pai Sak., N. 50.

NIBONG nilbong Mal.

NIGHT renga.

NO hoi.

NOISE (*rioh*) chitor.

NOSE meng Sak., N. 98.

„ (*ridge of*) kęrduk meng.

„ (*stud for*) pęnlog.

NOSEGAY chadog.

„ sęnteh.

NOSTRIL lęnglok meng.

NOT to' Sak., N. 69.

NOTCHED takeh Mal.

NOW na kal Sak., N. 111.

O.

OPEN wog Sak., O. 40.

„ (*a durian*) chęg.

„ (*mangosteen*) chęked.

ORDER ôr.

ORPHAN kèpúg.

„ (*only survivor of family*) na rǝgrig *Sak.*, O. 58.

OTHER ménǝi.

OTTER kabok *Sem.*, O. 64.

OUTSIDE na-bek.

OUTSTRETCHED sǝrjeh.

OWE dǝs.

OWL bakah.

P.

PAID deldol.

PAIN (*in swallowing*) galar.

PANTHER ab renga.

PAPAYA bǝrk bǝtek F. 280 *Mal.*PARE (*raft*) sǝr.PATCHOULI nilam *Mal.*PECK choh *Sem.*, *Sak.*, C. 296.

PEEL wog v. open.

„ (*durian*) bleh.„ (*rind*) sinkǝr.„ (*bark*) cheg v. open.PENIS loah *Sem.*, *Sak.*, P. 53.PERCH debûd *Sem.*, C. 52.

PERFORATED pǝchuk.

„ (*fruit*) enk loij sendrǝk.

PERHAPS bilbil.

PERSPIRATION bukéd *Sem.*, *Sak.*, H. 141.

PÉTAI trǝ betar.

PHEASANT (*fire-back*) chelúk.„ (*merah mata*) pǝgǝr *Mal.*PICK (*flower*) tois *Sak.*, P. 149.PICK (*banana*) tid'chok. ?P. 68.

PIEBALD bǝrtutual.

PIERCE chǝlug.

„ (*cut*) lab.PIG changgai *Sak.*, P. 80 (a).„ (*wild*) chǝrǝr ?P. 82.PIGEON (*pergam*) bǝku.„ (*punai*) mǝnvut *Pang.*, *Sak.*, P. 93.

„ „ tanah chep té.

PILLAR tungul *Mal.*PILLOW (*use arm as*) chǝkol.

PIMPLE bud chud.

PINCH pied P. 106.

PINE-APPLE sǝké'.

PINION k'ngyǝk.

- PIP (*of durian*) né ulas.
 PIPE (*bamboo*) rëmbad.
 PLACE (*spot*) té P. 118.
 „ döi *Sak., Sem., H. 153 (a).*
 PLAIT (*hair*) sanggul *Mal.*
 „ (*rope*) këntal (*?Mal. pintal*).
 „ (*anyam*) tâ ch; sërëngget.
 PLANT (*seed*) tâp *Sak., P. 132.*
 PLAY jual; jual prud.
 „ (*a drum*) pad ?S. 196 (c).
 PLUCK OUT roid.
 PLUG sol.
 PLUMAGE sëntol *Sak., H. 2.*
 PLUNDER angkid.
 POCKMARKED uvong.
 POISON chëbur.
 POISON (*to tap*) pök.
 POKE tëbug.
 PORCUPINE kus *Sen. P. 185; töt; kelég.*
 „ (*quill*) jalar kus *Sem., T. 91.*
 POUND, TO si.
 PRAWN sëmbug.
 PREGNANT makô E. 31.
 PRESS (*tëkan*) jüg, ngeg.
 „ (*up*) tërot.
 PRETTY neg G. 66.
 PRICK chöl.
 PROD chok.
 PROD (*sokong*) klat.
 PROSTRATE pada'.
 PRUNE parak.
 PULAI puli *Mal.*
 PULL (*tarek*) jéng *Sak., P. 227.*
 „ (*chabut*) ëroidj.
 PULSE nadir *Skt., Mal.*
 PUNGENT (*pëdas*) pëjed.
 PURR gü.
 PURSUE hô.
 PUSH (*tolak*) tolag *Mal.*
 „ (*back*) dos.
 PUT döi H. 153 (a).
 „ OFF (*tanggoh*) rît.
 „ OUT (*padam*) pud *Sem., Sak., B. 256.*
 „ ON (*clothes*) ënî.
 PUTRID sé'ëg S. 292 (b).
 PYTHON rëlai *Sen. S. 320 spp. rëlai padak, r. batu, r. té, r. tabak, r. tirok.*

Q.

QUARREL (*of children*) bërchachor.

QUESTION sëmmain Q. 6.

QUICK kënyang Sak., Q. 6.

QUID (*of betel*) blok.

QUIVER chukég; lók.

„ (*cover*) chëngkub, chingkup.

„ (*strings*) chënois.

„ (*packing for*) samui.

R.

RAFTER kaséo.

RAIN hujat Sak., R. 12.

„ (*light*) hujat amis S. 281.

RAINBOW nyibnyab.

RAINY SEASON lësap Sak., R. 6.

RAMBAI rambi Mal.

RANK (*hanyir*) pë'i.

„ (*chëngis*) chëngis Mal.

RAP sëntog.

RAPID (*jëräm*) jërük Sak., R. 29.

„ (*chëgar*) chigár Mal.

RATTAN tingtek Sak. R. 37 (c); *spp.* tek riau R. 41 D; tek lok; t. dahnän; t. daué; t. klau chuok; kërada; häg; gërtas; gatek.

RAVE tato ta'na lek.

RAW aloi.

REACH (*arrive, tiba*) ëngloi A. 146.

READY simpat.

„ hag ning wing.

REAP (*tuai*) këtaman C. 295.

„ (*këtam*) tëgnug.

RECEIVE dawah.

RECENTLY pai nai jërüd, N. 50.

RED chëluk Sak., R. 34.

REDEEM jül.

REFUSE (*ta'mahu*) i jë' Sem., D. 123.

RELATIVE (*younger*) pü.

„ (*elder*) këlö.

REMAIN pra'.

REMEMBER jëlek.

REMOVE chit.

REQUEST (*minta*) oid.

RETIRE undur Mal.

RETURN yïma ?R. 83.

RHINOCEROS nagab Sem., Sak., R. 90.

- RIB chërös *Sak.*, R. 102.
 RICE (*nasi*) chäna E. 27 (b).
 „ (*paste*) blap.
 „ (*sweet*) bēhéd.
 „ (*bitter*) bēchuit.
 „ (*bēras*) chëndroi *Sem.*, R. 112.
 RIDE ELEPHANT oid.
 RIGHT 'tok ?R. 128.
 RIPE jënip *Sak.*, R. 137.
 „ (*pěram*) těrnip.
 RISE (s) nawal.
 „ gčché'.
 „ (*bangun*) wog.
 RIVER tiu *Sem.*, *Sak.*, W. 30.
 ROAST sěrpád.
 ROLL balut *Mal.*
 ROLL (*up sleeve*) chimpal.
 ROOF nai.
 „ (*of mouth*) kěnög.
 ROOT (*umbi*) trop.
 ROTTEN sasau.
 ROUGH siyak.
 ROUND kěldúl.
 RUB kěbor.
 RUBBISH (*sampah*) sap.
 RUN dado *Sem.*, *Sak.*, G. 44.

- SACK (*karong*) chěnok.
 SAFFRON řěméd.
 SALIVA lělujek.
 SALT garam.
 SAND pantir S. 27.
 SATED bēhi *Sem.*, G. 72.
 SAY lo'oh *Sem.*, S. 359.
 SCAB chětok tēmō.
 „ (*kudis*) kěrunton.
 SCAR dıl *Sem.*, P. 118.
 „ (*parut*) chěnod.
 SCARPE (*kikis*) kas.
 „ (*raut*) sör.
 „ (*kukur*) kukud.
 SCRATCH (*of fowl*) sapo.
 SCORPION mangai *Sak.*, S. 46.
 „ (*small*) těrlap.
 SEARCH kē *Sak.*, S. 60.
 SEASON jaman (*Mal. zaman*).

SEE tenyor.

SEND mad (= eyes); kirip; hanted.

SENTUL so'ug.

SET (*of sun*) pëchug.

SEW jayid.

SHADE wog *Sak.*, S. 127.

SHADY semorig.

SHAKE (*e.g. fruit*) jo.

SHALLOW penyon.

SHARP (*tajam*) pëhing.

„ (*përit*) prëd.

SHARPEN sig *Sak.*, S. 144.

SHAVE lô 'sog.

SHIN këmong.

SHINE rëmëlah.

SHIVER dëkad.

SHOOT sëlu.

SHORT pendé.

SHOULDER porg, S. 169 (6).

SHOVE tolag.

SHRIEK karau.

SHUT chërto'.

SICK ji *Sem.*, S. 187.

SIEVE jaman.

SILENCE kedut.

SILENT sëngé.

SIMPLES selak.

SIN bërdoſ (? = *bërdosa Mal.*)

SING gë nabag *Sem.*, S. 212.

SIP tohual.

SISTER (*elder*) këlo' babo B. 415 & 419.

„ (*younger*) pu' babo B. 414.

„ -IN-LAW mënëri B. 419.

SIT gul *Sak.*, S. 222.

„ (*with legs and arms dangling*) keluel tabag.

„ (*squat*) jantek.

SKIN kato' *Sem.*, S. 236 (b).

„ (*of fruit*) singkor.

„ (*disease; kudis*) tëmat.

„ („ ; *kurap*) gas. I. 46.

„ („ ; *puru*) choid.

SKULL kui *Sem.*, S. 239.

SKY balik.

SLACK lëdik.

SLAP gëter.

SLAVE cho.

SLEEP selog S. 249: *on side* kiton; *legs crossed* juwas.

SLEEPING-PLACE bĕnulé.

SLENDER suĕn.

SLIP sĕlig. *Sak.*, S. 262.

SLIPPERY blaj.

SLOPING lodau.

SLOW hakui *Sem.*, S. 272.

SMALL amis *Sak.*, S. 281.

SMALL-POX chĕne; nyani tot.

SMASHED pĕchuk.

SMELL ĕseg. S. 292 (b).

„ (to) ōar.

SMILE semeg.

SMOKE pĕdug.

„ (to) emjod.

SNAKE sĕlek; taju *Sem.*, S. 311, *ular lili* t. padi, *striped s.*
t. pĕlache, *cobra* t. eg.

SNAKE bakau.

SNARL nanis.

SNATCH rös.

SNEEZE kohól.

SNORE sĕmangár *Sak.*, S. 328.

SOB segdug.

SON kues babor.

„ IN-LAW mĕnsau *Sem.*, L. 25.

SOOT chengkah.

SOOTH-SAYER tinang.

SOOTHE sĕneg.

SORE pejed.

SORROWFUL mĕriso (? = *mĕrisau* Malay).

SOUL roh (*Mal.*, *Ar.*).

SOUND kuĭ.

„ (of sleep) kĕnyang *Mal.*

SOUR (*masin*) brĕg.

„ (*masam*) bechut.

SOURCE cheg.

SOW ruĭ.

SPEAK tĕnur.

SPIDER tawi, tawo, *Sak.*, S. 378; manang; sok.

SPIKE-TRAP chĕmpog.

SPILL kakô.

SPINACH wüg.

SPIRIT gĕlawi; jani; chené; lépug; klab; ngô; ludo; pĕngho.

SPIT gĕtah *Sak.*, S. 390.

„ (*sĕmbor*) prok.

SPITTLE liĕk.

SPLASH chichu.

SPLINTER simpang.

SPRAIN alij.
 SPREAD dab.
 SPRING mu tui.
 „ -GUN răch.
 SPRINKLE koh.
 SPROUT tarol.
 SPUR (*of cock*) pus.
 SQUINT chulag.
 SQUIRREL kēdi; sēkor; chadé;
 STAB takoh.
 STALE nasog.
 STALK tangké.
 STAMMER gagah.
 STAMP (*heel*) temtām.
 „ (*sole*) jantet.
 STUD subak (*Mal* subang).

T.

TAPIR barac *Sem.*, T. 26.
 TESTICLES bako ?E. 34.
 „ kiyois.
 THIN (*nipis*) pēhēr.
 THITHER (*ka-situ*) na ana nong T 51 (e).
 THROAT gēlah *Sak.*, N. 28.
 THUMB tahik.
 TOOTH (*back*) tēngup T. 170.
 TURMERIC' réméé.

U.

UPSTREAM (*to go*) é galak.

W.

WASP (*naning*) tengtok *Sak.*, H. 135 A.
 „ (*kērawai*) tajud.
 „ (*tēbuan*) ēnguang H. 135.
 WATCH véô.
 WATERFALL t'au W. 30.
 WATER tiu W. 30.
 WAX (*in ear*) éjég.
 „ (*kilin*) sud *Sem.*, W. 48.
 WEAR nī; lat *Sak.*, E. 76 (c).
 WEAVE tâ atch.
 WEED, TO mērupud *Mal*.
 WELL, A tēlaga *Mal.*, *Skt*.
 „ (*fit*) hod named.
 WET ka'ayd *Pang.*, W. 73.
 WHAT lok *Sem.*, *Sak.*, W. 77 (a).
 „ NEWS lok gahé.

- WHEN bil ?W. 91.
 WHET seg *Sak.*, S. 144.
 WHISPER bisig *Mal.*
 WHISTLE chemer hau.
 " (of man) ho'oid *Sem.*, W. 97 (a).
 WHITE bieq, buyog *Sem.*, *Sak.*, W. 98 (b).
 WHO na chô; *who is that?* na chô ana?
 WHY lô kërja W. 77.
 WIDE (luas) lëgar (? *Mal.*, lëga).
 WIDOW janda *Mal.*
 WIFE léh *Sak.*, F. 60.
 WILD liar *Mal.*
 " -CAT chigehog.
 " -DOG jëlog D. 148.
 " -PIG changgée *Sak.*, P. 80.
 WILL hod *Sak.*, W. 14 (b).
 WIND hëlhul *Sak.*, S. 478.
 WINDPIPE ganggan.
 WING kenyeng *Sem.*, *Sen.*, W. 117.
 WINK kanyeb.
 WINNOW jënlog.
 " (tampi) gép.
 WOMAN babo *Sem.*, F. 61.
 WOOD-PECKER tëranik.
 WORLD té E. 12.
 WORM chachik *Mal.*
 WORN-OUT saso'.
 WRESTLE kalud.
 WRIST chëriel ?A. 134 (c).

Y.

- YAWN kahôï.
 YELLOW kuning *Mal.*
 YES hur *Sen.*, *Sak.*, Y. 27.
 YOU ha *Sak.*, Y. 34.
 " (polite) ar.
 YOUR yé.
 YOUTH (male) lautô.
 YOUNGEST tialé to' *Sak.*, M. 16.

Remarks upon Certain Currency Notes, Coins and Tokens Emanating from Malaya During and After the War.

BY SIR JOHN A. S. BUCKNILL, M.A.

The rise in the value of Silver (and, incidentally, of many other metals) was a very noticeable feature during the War.

There were, no doubt, numerous reasons for its appreciation but it would be outside the scope of this paper to attempt to discuss them in any detail.

It is sufficient to point out here that there were continuous and serious political disturbances in Mexico which checked greatly the output of silver from that highly argentiferous region: that as is generally the case in the East when any universal feeling of apprehension or trouble is felt, there was much hoarding of coins and a corresponding withdrawal from circulation of a very large quantity of metallic currency: and that huge issues of notes by many of the belligerent States tended to enhance the intrinsic worth of almost every form of coinage.

For about a year after the commencement of hostilities silver remained steady but in December, 1915 a progressive upward movement commenced which reached its culminating point about the end of 1919: since that date there has been a sharp and continued decline.

The sub-joined table shows roughly what took place:—

Date.	Value per ounce in London.		Date.	Value per ounce in London.	
	s.	d.		s.	d.
31. 3.14	2	2 $\frac{3}{4}$	30. 6.17	3	3 $\frac{1}{2}$
30. 6.14	2	2 $\frac{1}{8}$	30. 9.17	4	0 $\frac{1}{2}$
30. 9.14	2	0	31.12.17	3	7 $\frac{1}{2}$
31.12.14	1	10 $\frac{3}{4}$	31. 3.18	3	9 $\frac{3}{8}$
31. 3.15	1	9 $\frac{3}{4}$	30. 6.18	4	0 $\frac{1}{2}$
30. 6.15	1	10 $\frac{7}{8}$	30. 9.18	4	1 $\frac{1}{2}$
30. 9.15	1	11 $\frac{1}{8}$	31.12.18	4	0 $\frac{7}{8}$
31.12.15	2	2 $\frac{5}{8}$	31. 3.19	4	1 $\frac{3}{4}$
31. 3.16	2	4 $\frac{1}{8}$	30. 6.19	4	5 $\frac{3}{4}$
30. 6.16	2	7 $\frac{7}{8}$	30. 9.19	5	2 $\frac{1}{8}$
30. 9.16	2	8 $\frac{1}{8}$	31.12.19	6	4 $\frac{1}{4}$
31.12.16	3	0 $\frac{1}{2}$	30. 3.20	5	11
31. 3.17	3	0	21. 9.20	4	11 $\frac{1}{2}$

It would be necessary to look back very many years to find silver at a value even approaching that which it attained in the year succeeding the War.

In 1870 the price per ounce was about 5*s.* 0*d.*; in 1880, 4*s.* 4*d.*; in 1890, 3*s.* 11*d.*; in 1900, 2*s.* 4*d.*; and in 1910 about 2*s.* 0*d.*

The result of the appreciation was, that, as soon as the silver coins current in British Malaya became, as to their silver contents, worth more than their face value, they were collected by adventurous individuals, sent out of the country and melted down for disposal as bullion: and, as these coins were of high silver fineness, this undertaking became a profitable one directly the price of silver touched about 3*s.* 0*d.* per ounce: and, although legislation against both export and hoarding was soon introduced, such measures were not, it is to be feared, of much practical effect. The dollar soon vanished and the 50, 20, 10 and 5 cent pieces became rapidly scarce: in 1917 the shortage began to be very serious whilst the bronze coinage (1. $\frac{1}{2}$ and $\frac{1}{4}$ cents) commenced also to disappear. The Government was faced with a difficult situation in its endeavours to provide a suitable substitute for the disappearing currency. The proposal to mint coins of intrinsically very low value could not be immediately carried out: the Indian Mints were extremely busy and, though an effort was made to obtain assistance from the Royal Siamese Mint at Bangkok, no aid could be, owing to technical causes, gained from that Institution: indeed it was not until nearly three years later that new coins appeared to replace those which had been removed from circulation.

In the meantime something had to be done and the first step was the issue of a locally made 10 cent note. These notes were printed on rather thick coarse paper of open texture at the Government Printing Works, Singapore: they tore easily and quickly absorbed dirt and were consequently not very popular.

They measured about 117 \times 76 mm. and were coloured in yellow, green and black on the front and in red on the back.

The design was very simple: the face of the note has a yellow back ground about 87 \times 59 mm. in size and consisting of a narrow border about 16 mm. in width and, within this, the words "Ten Cents" repeated in a series of horizontal lines in small letters.

Overprinted on this background, in green, lies a narrow green border 14 mm. in width; within this in green appears a small representation of the Royal Arms at the top in the centre: underneath there runs the phrasing:—

THE GOVERNMENT OF THE STRAITS SETTLEMENTS.

Promises to pay the bearer on demand at Singapore.

TEN CENTS.

Local Currency for Value received.

The above with the exception of the words "Ten Cents" (which are in black) is in green.

In the left hand top corner appears within a black circle "10 Cents." In the left hand bottom corner "Ten cents" in Chinese and to the right of that the serial number of the note; below the main inscription and to the right the signature of the Treasurer and the word "Treasurer": in the right hand bottom corner "10 cents" in Tamil and in the right hand top corner "Ten cents" in Malay: all the above is in black.

On the back of the note is a decorative design of scroll work: in the centre a representation of a ten cent Treasury Revenue embossed stamp cancellation: all in red.

The first issue was made on October 8th, 1917 and bore the signature of the Hon. Mr. Hayes Marriott then acting Treasurer [Pl. I. figs. 1 and 2.]: later, the issue starting on January 2nd, 1919, the notes bore the signature of the Hon. Mr. A. M. Pountney, C.B.E., the Treasurer of the Straits Settlements. [Pl. II. fig. 3].

Very large numbers of these notes were put into circulation and the value of those issued by September 22nd, 1920 was \$1,925,484. 80 cents.

On April 22nd, 1920 a new Ten Cent note made its appearance: they were on proper India paper and were engraved in London by the well known London firm of Messrs. Thomas de la Rue and Co., Ltd. They measured about 108 × 63 mm. and were of a handsome and artistic design. [Pl. III. figs. 4 and 5].

A pale olive green border, containing the value in white in English, Chinese, Tamil and Malay, surrounded a handsome scroll work background of pale brown over which, in pink, stands a representation of the Royal Arms and the words:—

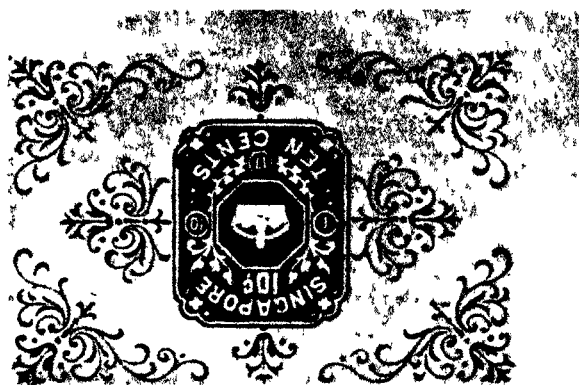


FIG. 2.

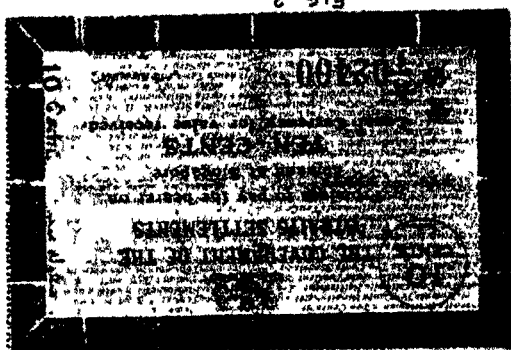


FIG. 1

Fig 3

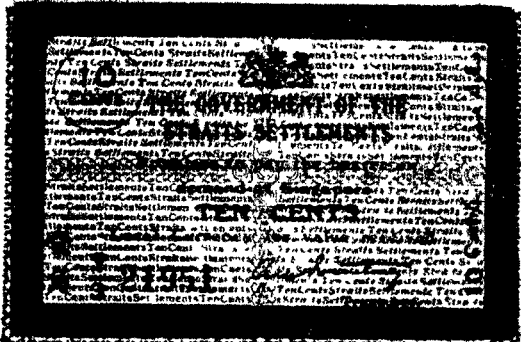


Fig 10



Fig. 11



Fig 12



Fig 8



Fig. 9



Fig 13



**THE GOVERNMENT
OF THE STRAITS SETTLEMENTS.**

Promises to pay the bearer on demand at Singapore.

TEN 10 CENTS.

Local Currency for Value received.

(Signature)

Treasurer.

The serial number appears in black at the two top corners of the note.

On the back of the note appears the representation of a dragon in white and pale green and the value in English, Chinese, Tamil and Malay in the four corners.

By September 22nd, 1920 the value of these notes issued was \$680,000. The locally manufactured ten cent notes were extensively counterfeited and a great many of these forgeries circulated side by side with the genuine ones.

On January 21st, 1918 an issue of Twenty-five cent notes commenced. These were prepared at the Government Survey Office at Kuala Lumpur, Federated Malay States. (Pl. IV. figs. 6 and 7). The value of these notes in circulation by September 22nd, 1920 was \$39,825. I was recently informed that these twenty-five cent notes were being withdrawn from circulation as occasion permitted.

The twenty-five cent note was a better looking production than the local ten cent paper currency. They measured about 108 × 75 mm. The material was a fairly thin white paper closely striped with narrow perpendicular pale pink lines. On the face was first printed an elaborate ornamental design (in orange) and outside this (in black) a border of heavy spandrels with the figures "25" in white in a black circle at the top corner and "Cts" in similar circles at the bottom corners: midway on the right, and left and at the bottom, in Tamil, Malay and Chinese respectively and in black on white scrolls "25 Cents." Over the orange pattern and printed in black:

THE GOVERNMENT OF THE STRAITS SETTLEMENTS.

Promises to pay the bearer on demand at Singapore.

TWENTY FIVE CENTS.

Local Currency for Value received.

(H. MARRIOTT)

The Royal Arms.

Ag. Treasurer.

(Serial letters and number.)

On the back of the note appears in black the representation of a tiger standing amongst long grass super-imposed upon a decorative orange coloured background in the upper corners of which are, in white, the figures "25" and in the lower corners also in white "Cts."

The issue of notes undoubtedly saved the situation but, even so, small change was often a great difficulty and postage stamps and tramway tickets were sometimes offered.

I heard of Chinese Towkays up-country utilizing notes and vouchers or "good-fors" of their own, and a number of tokens or tallies, (some of which are described in this Article) made their appearance in different localities.

In 1919 a large quantity of debased 5, 10, and, I understand, some 20 cent silver pieces were issued for currency in British Malaya from the Indian Mints; in 1919 to the value of \$950,000 and in 1920, up to about the middle of March, \$950,000 worth. I am informed that during this period no 50 cent or dollar pieces were received from the Indian Mints. Even of this debased coinage I believe a considerable quantity found its way to the China coast being utilized there as currency in place of that of higher intrinsic value which disappeared into the melting pot. I do not describe these, as, except for the fact that they were of very low silver fineness, they appeared to be similar to the former Georgian coins of like denomination.

The following is a short account of some of the coins and tokens which have come under my notice:—

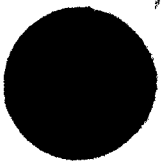


Fig. 16

Fig. 15

Fig. 14



FIG 5



FIG 4

PLATE IV

FIG 6

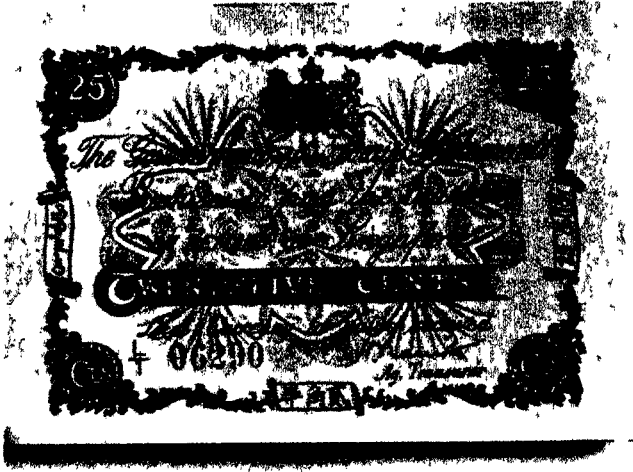
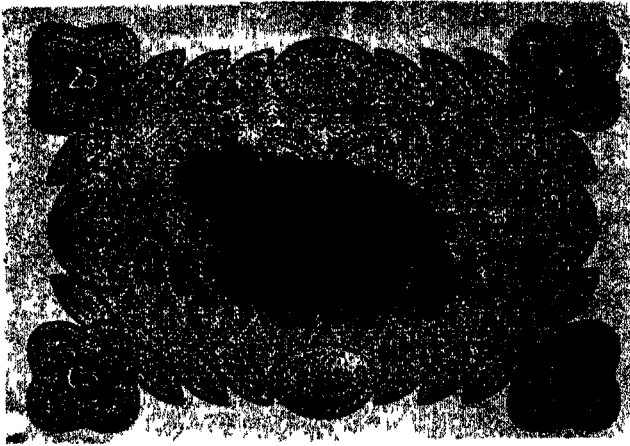


FIG 7



STRAITS SETTLEMENTS.

1. One cent: minted at the Calcutta Royal Mint: made of bronze: a square shaped coin with rounded corners: size across 21.3 mm. Plain edge.

Obv. Crowned head and bust of King George to left: a dot below: legend on left, above and right "GEORGE V KING AND EMPEROR OF INDIA."

Rev. Within an interior beaded circle the figure "1" over the word "CENT": outside this circle and within another similar circle the legend "STRAITS SETTLEMENTS (rosace) 1920 (rosace)." [Pl. II. figs. 8 and 9.] Up to the 22nd September, 1920 there had been received in the Straits Settlements Treasury, cents of this type to the value of \$576,650.

2. Five cents: made of nickel: circular diameter 20 mm.: plain edge.

Obv. Crowned head and bust of King George to left. Legend around "GEORGE KING AND EMPEROR OF INDIA." [Pl. II. figs. 10 and 11].

Rev. Within a beaded interior circle the figure "5": around and outside the circle the legend "STRAITS SETTLEMENTS," above: and, below, "FIVE CENTS 1920."

I received specimens of this coin in January, 1921. These coins were struck at both the Calcutta and Bombay Mints: the coins first issued for circulation (and the one above described) emanated from the latter: none having been despatched from the former Mint by January 24th, 1921. I am indebted for this information to the Authorities at His Majesty's Mint, Calcutta.

SINGAPORE.

In August, 1920, I heard that the Singapore Harbour Board had issued tokens for use within their very extensive premises covering the long line of docks which serve the Port. The result of my enquiries was that the Chairman very kindly gave me specimens of the denominations then in use and in January, 1921, was good enough to let me have examples of a new issue. These may be described thus:—

First issue.

1. One cent: made of tin: diameter 34 mm.: a circular coin punched on one side only, the other side being plain. [Pl. II. fig. 12].

Obv. Within a small central circle the figure "1": outside and within another circle the letters "S H B." These letters are the initial letters of the Singapore Harbour Board.

Rev. Plain.

2. Half-cent: made of tin: diameter 24 mm.: a circular coin punched on one side only, the other side being plain. [Pl. II. fig. 13].

Obv. Within a small central circle the figures " $\frac{1}{2}$ "; outside and within another circle the letters "S H B."

Rev. Plain.

Second issue.

3. One cent: made of tin: diameter 28.5 mm.: a circular coin punched on one side only, the other side being plain. [Pl. III. fig. 14].

Obv. Within a garter, the arms of the Singapore Harbour Board consisting of a lion "passant" to left standing on a castle, the whole surmounting a diamond shaped lozenge enclosing a three-armed ornament each arm containing a crown. On the left is a large figure "1" and on the right the word in small lettering "cent." Around and within the riband of the garter the legend "THE SINGAPORE HARBOUR BOARD."

Rev. Plain.

4. Half-cent: similar to the One cent but smaller: diameter 26 mm. The only difference is that the figures " $\frac{1}{2}$ " replace the figure "1." [Pl. III. fig. 15].

5. Quarter cent: similar to the half-cent but smaller: diameter 22.5 mm. The figures " $\frac{1}{4}$ " replace the figures " $\frac{1}{2}$." [Pl. III. fig. 16].

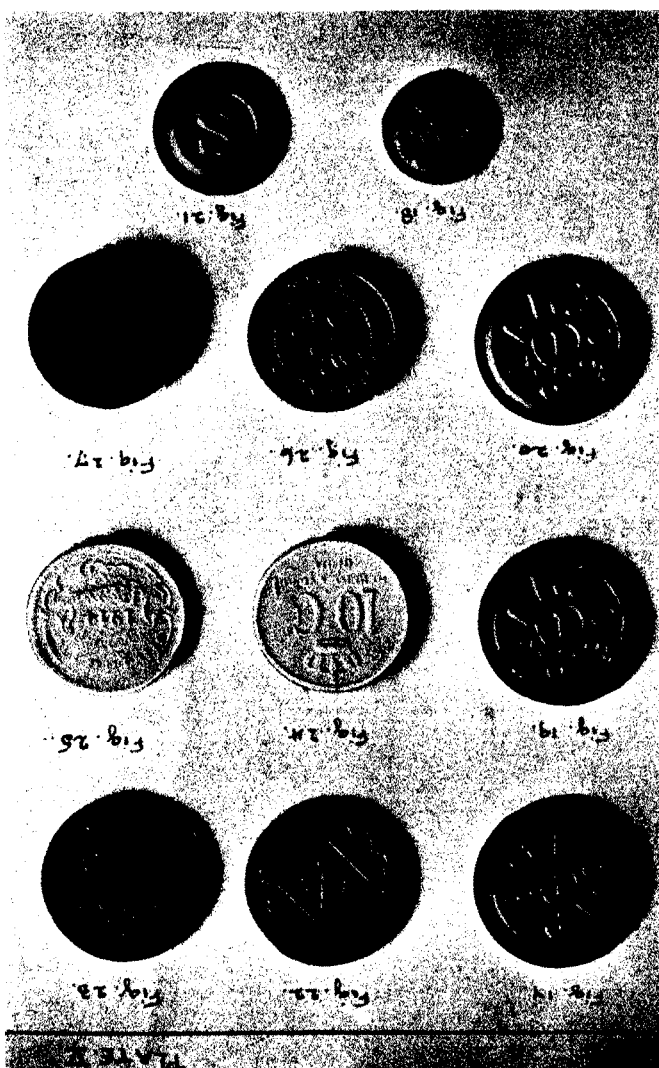
I am informed that the punches from which the first issue was struck were made locally at Singapore and the tokens struck locally. They are somewhat rough productions.

For the second issue, however, the dies or punches were manufactured at the Royal Mint at Bangkok, Siam, and are of a high standard of excellence: the tokens for current use were, I understand, struck locally at Singapore and, whether from the use of insufficient pressure, hasty work or other cause, the impression produced does not bring out all the detail of the design in those which I have examined: for example, the impression of the diamond-shaped lozenge is very faint; whilst of the three armed ornament and the three crowns there is hardly any trace. On the other hand I have seen proofs of No. 3 in copper and in some white metal which, carefully and properly struck, show every detail perfectly. I therefore add these proofs to the list.

6. Proof in copper of No. 3: fine work.

7. Proof in hard white metal of No. 3: fine work.

These tokens can hardly be regarded as currency even in a restricted area as they are strictly only intended to be used for the purpose of immediate payment to coolies (by way of tallies really) for services such as carrying baskets of coal or parcels of merchandise to and from ships: the tokens are redeemable at depôts on the



premises of the Singapore Harbour Board for ordinary coinage or notes current in British Malaya. I was informed that they were not issued under any Government authority.

PULAU BUKOM.

In August, 1920 I was asked by the world-wide known numismatist Mr. J. P. Moquette if I had heard of an issue of tokens from this place: a small island lying about seven miles from Singapore. It is British territory and there is situated an important oil depôt of the Asiatic Petroleum Company.

I made enquiries from the Manager of the Company who very courteously sent me specimens of the tokens which the Company had issued for Island use. I subsequently had the opportunity of seeing several more examples. The following is a description.

1. One cent: made of tin: diameter 29 mm.; a circular coin punched on one side only; the other side being plain. [Pl. V. fig. 17].

Obv. Within a small central circle the figure "1": outside and within another circle the letters "P. BUKOM." The letter "P" stands for the word "Pulau" which is Malay for "Island."

Rev. Plain.

2. Half cent: made of tin: diameter 19 mm.: a circular coin punched on one side only; the other side being plain. [Pl. V. fig. 18].

Obv. Within a small central circle the figures " $\frac{1}{2}$ ": outside and within another circle the letters "P. BUKOM."

Rev. Plain.

I was informed that these tokens were not issued under any Government authority.

PULAU SAMBOE.

In the early part of 1920 my attention was drawn to some tokens apparently emanating from this Island which is a Dutch possession situated about ten miles from Singapore. Large oil depôts are maintained at this place. I accordingly wrote in April of that year to the Official in charge of the Island asking for information about the issue. I received an obliging reply the interesting portion of which reads:—

"Owing to the shortage of copper coins, I was compelled to introduce tokens at this place because a lot of work done by coolies here is paid cash on the spot.

"The token has therefore no value as "currency" but a token represents the value of one Straits Settlements cent; and these tokens can only be used on the Island of Pulo Samboe and then only for the Companies' business."

Mr. Moquette kindly informed me in August, 1920 that the Dutch Government had already, by that date, forbidden the further use of these tokens. I had, however, the opportunity of examining about thirty: the following account gives a short description of them.

1. One cent: made of tin: diameter 29 mm.: a circular coin punched on one side only, the other side being plain. [Pl. V. fig. 19].

Obv. Within a small central circle the figure "1"; outside and within another circle the letters "P. SAMBOE." The letter "P" stands for the word "Pulau" which is Malay for "Island."

Rev. Plain.

2. One cent: similar to No. 1, but the letter "O" is stamped "Q": this is not an uncommon variety and I think was the first issue; the punch being later perfected. [Pl. V. fig. 20].

3. Half cent: made of tin: diameter 22.5 mm.: a circular coin punched on one side only, the other side being plain. [Pl. V. fig. 21].

Obv. Within a thick raised circle the letter "S" which is the initial letter of "Samboe."

Rev. Plain.

TRENGGANU.

The ordinary issue of "white" or pewter cents by the State of Trengganu is well known. In September, 1920, however, a new issue appeared which is of considerable interest. They differ considerably from the earlier issues. The following is a description of the new coin of which, through the kindness of the British Adviser, I have received specimens.

1. One cent: struck at Trengganu: made of pewter: circular: diameter 28.8 mm.: milled edge. [Pl. V. figs. 22 and 23].

Obv. Within a diamond-shaped figure, the figure "1" flanked by a six-pointed star on each side: the whole within an interior beaded circle: around, and within an exterior beaded circle, a wreath of leaves.

Rev. Within an interior beaded circle in Malay "Kerajaan Trengganu Sanah 1325" (i.e. "State of Trengganu Year 1325"). Outside, and within an exterior circle, in Malay character "S. Z. A." (i.e. the initial letters of Sultan Zenal Abidin) each letter separated from the other by a six-pointed star.

The points of interest with regard to this coin are:—

- (a) Sultan Zenal Abidin died in 1918 and was succeeded by a son who abdicated in 1920 and in turn was succeeded by another son of the deceased Sultan. Owing to the great shortage of small currency in the State (where silver and

copper coinage of the Straits Settlements are current as well as the local pewter coinage) a new issue of coinage became urgently necessary. There was no time to order a new "die" from Europe and the old die (modified slightly on the Obverse) was used.

- (b) The modification consists in the addition (cut into the old die) of the diamond shaped figure surrounding and the two stars flanking the figure "1." The old Hegira date 1325 (i.e. 1906-7) is retained though the coins were issued only in 1920: so too are the initials of the Sultan who died in 1918.
- (c) The main reason why any modification was really necessary was because owing to the high price of tin these "white" or pewter cents were issued as equal to Straits Settlements copper or "red" cents whereas 400 of the *old* Trengganu cents only equalled in value 300 Straits copper cents.
- (d) The alloy was prepared by the great Tin Smelting Company of Singapore, the Straits Trading Coy., Ltd. and is noticeably harder than the mixture used for earlier issues. The "die" itself is rather worn and the sheath or instrument used for cutting the blanks from the sheet metal is getting blunt and could not be properly repaired by the local Trengganu metal-workers: with the result that the edging of the coin is very poor and the general impression not very clear: though specimens vary.
- (e) Ten thousand dollars worth of these coins were to be issued. The issue was authorized by the High Commissioner.

NETHERLANDS INDIES.

Mr. Moquette of Weltevreden, Java, informed me in 1920 that in 1914, in consequence of shortage in copper currency, an issue of Tin coins representing values of 5 and 10 cents was contemplated. Dies were prepared at the Opium Factory at Batavia but, as the scarcity of coinage was within a short time made good by a supply from Holland, the projected issue of coins was never made.

The die for the 10 cent piece was destroyed and the specimens struck from it were, with the exception of one example produced after the die had already been damaged and now in the Batavia Museum, melted down. The die for the 5 cent piece was however preserved and is in the same Museum together with a few specimens struck from it. The following is a short description of these extremely rare proofs:—

1. Ten cents: struck at Batavia, Java: made of tin with a little lead: circular: size 27 mm. Plain edge. Description from a plaster cast. [Pl. V. figs. 24 and 25].

124 CURRENCY NOTES, COINS AND TOKENS FROM MALAYA.

Obv. A Crown surmounting "10 Ct.": below, the words "NEDERLANDSCH INDIE" in two lines. There are two flaws in the die.

Rev. In the centre, within a scroll work border, the date "1914." Above in Javanese character and below in Malay "One-tenth part of a guilder."

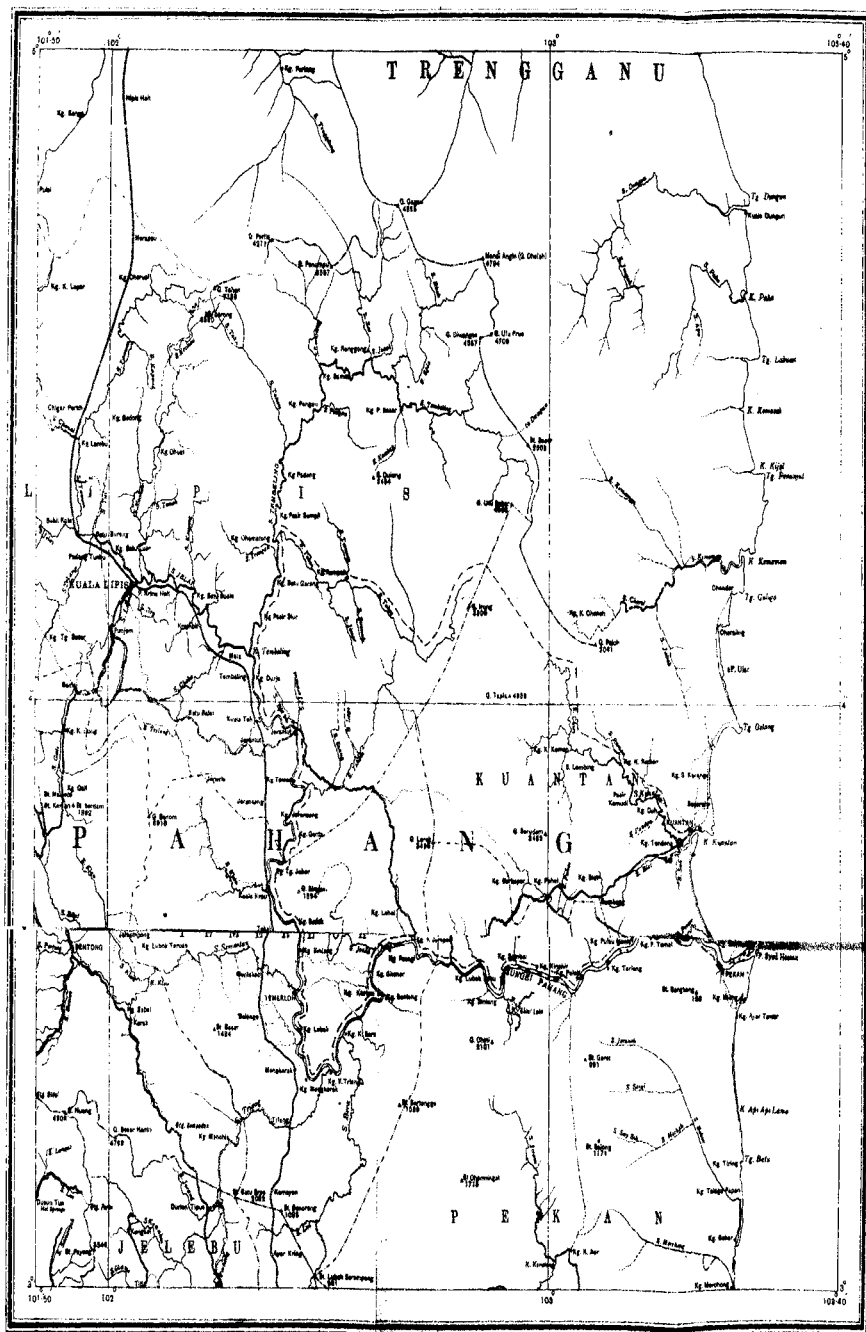
2. Five cents: struck at Batavia, Java: made of tin with a little lead: circular: size 26.5 mm. Plain edge: a thick coin of 3 mm. Description from a specimen given to me by Mr. Moquette. [Plate V. figs. 26 and 27].

Obv. Within a beaded circle a Crown surmounting "5 Ct." Outside and above, the word "NEDERLANDSCH" and below "INDIE." To left the mint-mark of a sea-horse (the conventional mark of the Dutch mint-master Dr. C. Hoitsema); to right a caduceus (the conventional marque d'atelier of Utrecht).

Rev. Within a beaded circle in Malay "One twentieth part of a guilder": outside and around, the same in Javanese character, and at foot "1914."



SKETCH MAP OF NORTHERN PAHANG



Scale 12 Miles to an Inch



Through an unknown Corner of Pahang with H. Clifford in 1897.

BY F. W. DOUGLAS.

A portion of the map on the border between the States of Pahang and Trengganu is still blank. It lies in a rough triangle, of which Gunong Irong, the source of the Tekal and Tembeling rivers (both northern branches of the great Pahang river), is the western apex, with Gunong Tapis, the source of the Kuantan River, the south-eastern point, and the mountainous range at the head of the Kemaman River, which flows in an easterly direction through the southern end of Trengganu, as the north-eastern point.

This area is still a *terra incognita*. It has occurred to me therefore that the following notes from an old diary may possibly be of interest and perhaps serve to stimulate some member of this Society to explore this region thoroughly. The triangle is marked on the accompanying map.

In 1897, Hugh Clifford (now Governor of Nigeria), who was then Resident of Pahang wanted to make a bridle-path connecting Kuantan, which lies on the east coast at the mouth of the Kuantan River, with Kuala Lipis, which lies some 200 miles inland up the Pahang River and which had then been selected as the temporary Capital for the State of Pahang. He and I accordingly set out from Kuantan on the 12th April, proceeding up the Kuantan River to its source, across the *terra incognita* and down the Tekal River and thence on down the great Pahang River to Pekan at the mouth.

We reached there on the 23rd April. Our journey therefore took 12 days, during which we travelled some 300 miles almost entirely by river. The following notes are taken from a diary kept during the trip.

1ST APRIL. Clifford wrote asking me to get guides for the journey, as no one had ever done the trip from the Ulu Pahang side. The only men I could find were not exactly ideal for the purpose. One was an opium-smoking waster, Bakar Tekal by name, who had been in the Ulu Tekal with gëtah-hunting Dayaks, but who had not been down the river; the other was one Komeng Liar, half Sakai, who had been the guide for a party of raiders in 1896 from Kemaman (Trengganu) into Pahang and had helped some of Bahman, the Orang Kaya Semantan's people, to escape. He was selected for our party simply as a useful man in the jungle.

8TH APRIL. Clifford walked over from Pekan and we started up river, spending Sunday, the 11th, at the Pahang Corporation's mine. The old mill at Jeram Batang was running for the last time prior to being moved to Sungai Lembing, where all the stamps were being concentrated. Derrick, the superintendent, entertained us royally. He took Clifford over Nicholson's & Willink's lodes and down the shaft. (Both these lodes are worked to this day).

12TH APRIL. We continued upstream in four dug-outs with 20 men. Slept on the Cheras. Clifford's boat filled during the night and he awoke in the water.

13TH APRIL. Stopped at a Sakai village, where we tried to get two men to join our party. Clifford fired off his best Senoi at them but they only bolted. Eventually, after an hour we caught two, named Chong and Bo'uk, whom we bribed with much tobacco to accompany us. These Kuantan Sakai have a peculiar way of making their blow-pipes. They split a piece of wood, bore out the half-sections and then bind the two pieces together with rotan and a covering of gutta-percha. The Patagonians of South America do the same, but I know of no other native tribes in this part of the world who make their blow-pipes in this way. Later they came down to my house and gave a very good exhibition of shooting amongst my cook's fowls, and gave me a blow-pipe which is now in the British Museum.

We camped at Kuala Lipas that night and distributed the loads preparatory to walking next day. The worst of a rice-eating race is that they eat practically as much as they can carry. We therefore had to arrange to drop some of the men at the end of the second day's walk and most of the remainder as soon as we got far enough down the Tekal, or one of its tributaries, to raft.

Clifford was a Spartan in his methods of travelling. He arranged that we should live on curry and rice, tea and biscuits. Four chickens were allowed for curry; when they were finished, salt fish brought for the men was to be the only appetiser for the rice. I smuggled in a small flask of brandy—as my mother had made me promise never to travel without it,—two tins of sardines and two of cocoa and milk. I may add that my Spartan companion was not above sharing these rare delicacies! Perhaps the most trying part, until one grew accustomed to it, was that the rice was cooked overnight, so a meal of cold rice confronted one at 6 a.m. and another at noon. We indulged in a hot meal only at night. However at the end of the trip we were all as fit as the proverbial flea.

14TH APRIL. Started walking up the valley of the Senandok, our "path" being the bed of the stream. The leeches were frightful. I had torn my breeches above the knee, an accident of which these jungle pests took full advantage; I removed 15 leeches from

my legs. After ten o'clock our route took us up a very sharp incline and we had to pull ourselves up by roots. Some hornets (*pěnyěngat*) attacked us and caused a stampede. One found Clifford's nose and in a few minutes it was like a full-blown rose.

At 11.30 we reached the summit of Bukit Lada, which forms the divide between the Pertang on the Pahang side and the ulu Kemaman of Trengganu. According to the aneroid the altitude was only 700 ft., but judging by our exertions I suggested that some correction was required. We then descended the other side to the Sungai Besar and on lower again to the Sungai Babi, which in turn brought us to the Sungai Pertang, where we camped for the night. It is a fair sized stream; but we were above the bamboo country and so could not make rafts.

15TH APRIL. The path became a game track about five feet high through the jungle, following the course of the river down. We crossed and recrossed it no less than twenty-three times; by the afternoon the water was waist high; it was rather chilly work and still more so when it started to rain. We therefore stopped to camp.

To get the palm leaf (*bertan*) collected and made into an *atap* as quickly as possible we had a competition, the Kuantan Malays and the Sakai versus Clifford's servant from Pekan and mine, a Malay from Perak. The latter won easily. (I heard recently that this Perak Malay rose to be a District Officer under the Siamese in Kelantan, where eventually he died). We were cold and wet until Clifford remembered that it was the anniversary of his wedding-day and we sampled the brandy.

We found bamboos a little way below us, with which we made our rafts. Wan Ismail and all our men except six were then sent home early next morning by the way we had come.

16TH APRIL. Rafting down the river was a very pleasant change. The Pertang is a beautiful river with great deep pools, in which shafts of slate protrude, huge *ngram* trees overhanging the water. Our troubles however soon began. We struck a log-jam consisting of great trees piled twenty feet high and some hundred feet long, brought down by floods. Most of them seemed to have been there some time. The rock in the river here seemed to be granite (possibly Tembling schist). The rafts had to be dragged over this; many bamboos were split in the process and had to be replaced. Just below we came to the Tekal River and we camped for the night at the junction of the two rivers.

17TH APRIL. The Tekal was a fine stream here, made the more imposing by a big rapid known as the "Jeram Jerami." This gave me my first taste of shooting rapids, and an exciting game it is too, when no one with you knows the rapids! This particular rapid ended in a steepish drop, which tilted the rafts almost upon end. However we negotiated it successfully. As we

floated on down stream, we passed some *sambhur* (*Rusa*) drinking at the water's edge; they never moved as we went by—a sure sign that no human beings lived anywhere near.

We shot several rapids without mishap during the morning and were becoming fairly confident of our skill (or luck) in this somewhat thrilling pastime. A bad rapid, known as *Jeram Tahan Badak*, however, proved our undoing. There appeared to be a kink in this as we could not see the end. Clifford led, each raft following at a few minutes' interval. The rush of water was terrific. As we swept round the corner, we saw Clifford and his raft high up on a rock; he and his party frantically gesticulated to us to keep to the left; S'man my leader, drove his pole in hard in front of my raft, but to no purpose; the raft was on it at once and out he shot; he came out bobbing in front of us, while we swept on towards Clifford. I just managed to haul him up as we crashed on to the rock. We could do nothing to stop the third raft from the same fate. When we took stock we found we could make two whole rafts out of our bamboos, but, worst luck of all, we had lost our only remaining fowl—a white one, which we had carefully kept for the last.

18TH APRIL. (*Easter Day*).—Floated on down stream all day. Lost our cooked food at a rapid. The rafts became so knocked about they would scarcely float. There were no bamboos available for mending them, but we managed to patch one with a small *meranti* tree. Slept the night at *Kuala Som*.

19TH APRIL. We started early, getting along fairly well until we came to another bad rapid, *Jeram Mena*. Here Clifford came to grief. He and his raft upset; he lost everything except his cork mattress; all the rice was spoilt. We managed, however, to put together a small raft out of the wreck, on which we sent on two men to try and find the boat, which Owen, the District Officer at *Kuala Tembiling*, had undertaken to send up the river to meet us.

The rest of us spent some time diving to try and recover Clifford's revolver etc., but a wonderful rainbow appeared, with one end touching the place where all the things were sunk; the Malays thereupon ceased their efforts as they said the spooks had taken the things. It rained hard and we remained there cold and miserable.

20TH APRIL. Three dug-outs turned up at 8 a.m. and we pushed off on the final stage of our journey, glad to think that the end was in sight, but at the first rapid we all upset. At *Kuala Tekal*, where the *Tekal* joins the *Tembiling* River we found our boat. Further on down, at *Kuala Tembiling*, Duff and Owen were waiting for us at the house of *Panglima Kakap*, together with a huge curry. Scent had been sprinkled liberally over plate, spoon and fork, but our hunger made light of such trifles.

We left at ten that night following the great Pahang River down to Pekan, the Government station and residence of the Sultan, near the mouth, arriving there at 3 a.m. on the 23rd April.

All our time and compass survey records were lost and so far as I know, no one has been through that way since; that corner of the map therefore remains blank to this day. We established however the fact that the Tekal and the Tembiling Rivers rise from the same hill, although the latter runs north and then bends west before it finally runs south parallel to the Tekal.

We were particularly unlucky in finding the water in the Tekal at such a level as to make the rapids most difficult. It was my first real jungle trip. One learnt a great deal from Clifford, under whose guidance one realised what cheery companions Malays can be under such circumstances.



A Contribution to the Psychology of "Latah."

DAVID J. GALLOWAY M.D., F.R.C.P.

The attraction which attaches to an obscure subject and a long and close association with Malay races must jointly form the reason, if not the excuse, for this paper.

Whatever may be the etymological origin of the word "latah," it is now specialised to mean a peculiar form of nervous manifestation which occurs among many races and is common among Malays.

This manifestation lends itself to a differentiation into several varieties, all having one symptom in common, a greatly enhanced susceptibility to suggestion from without, whether conveyed through visual, auditory or tactile channels.

References to "latah" in the literature of Malaya are many and several special papers have been written on the subject in various journals.

I propose to avail myself of some of the published matter, more in the way of illustration than in any other, and to supplement my own cases. For that purpose I have selected those described by the late Mr. O'Brien and which were published in Nos. 11 and 12 of this Journal, chiefly because they are described with a careful minuteness which could be achieved only by one who had had a long and close association, and was in close sympathy with the Malays of the Peninsula, and because with that accuracy of observation which characterised the man, he has portrayed one of each of the three great classes into which "latah" is susceptible of division from a psychological standpoint. While availing myself of his description I am unable to adopt his classification.

There are several preliminary considerations to be dealt with such as the influence of race, age, sex, and heredity, but I shall discuss them very briefly.

Race is an important factor, for, although I have seen instances of "latah" among Abyssinians and Portuguese half-castes, it is mostly found among the Malay races. I have not met an instance of true "latah" among Chinese, though the mimeses have been many and were usually the outcome of "la grande simulatrice" Hysteria.

The student of ethnology will meet with some difficulty in assessing the racial limits of "latah." Unfortunately, some writers on the subject have invested it with a semi-religious significance which has led to its being confused with conditions of religious ecstasy or others with the hysteria which seems to be inseparable from religious revivals in civilised countries. The only approach to anything of a "religious" nature is the Indian "fakir" in whom the state of abstraction, which plays so large a part in the production of "latah" has passed beyond physiological limits and become an auto-hypnosis.

If he excludes all such manifestations, he will still find that "latah" is to be found in quite a number of races and that these are all situated within the tropical or sub-tropical belt, and are all more or less in the infancy of civilisation. Reduced to first causes, there would be nothing ridiculous in a theory that "latah" was the product of an environment in which constant warmth, absence of hurry, abundant leisure and an unoccupied mind were the components.

Sex has also a bearing on the subject, in that two of the types of "latah" are more common in women than in men. It is also curious that "latah" in men seems to be of greater intensity, and has a greater tendency to pass into action, than in women.

Age also plays its part, as "latah," being of gradual growth, is rarely seen before middle age excepting in one type, that which I describe as the "obsession of fear," which has its origin in childhood.

It is undoubted that "latah" in some mysterious way clings around some families, and this is what has afforded some ground for the statement found in nearly every definition of the term, that "latah" is hereditary. One does not realise the difficulty there is in obtaining a clear family history among Malays until it has been tried. It would have been in the highest degree profitable to follow history into the next generation and its collaterals, but this I found impossible because of the rapidity and completeness with which the average Malay family of the common class breaks up, each going his own way.

I append the histories of four families which may throw some light on this aspect of the question.

FAMILY I MALAY:—

Father, a shiftless individual, genial and effusive but totally unable to follow any continuous occupation—a typical degenerate.

Mother, healthy

Son, intensely "latah"

Daughter, jumpy and hysterical.

FAMILY II MALAY:—

Father, very "latah"

Mother, healthy

Eldest son, a "paroxysmal" drunkard, although a Moham-
medan.

Eldest daughter, distinctly although as yet slightly "latah"

Second daughter, epileptic

Other members of the family too young to decide.

FAMILY III MALACCA PORTUGUESE:—

Father, healthy

Mother, "latah"

Family of three daughters and two sons. One of the daugh-
ters is a somnambulist, the eldest son is "latah," the second son
slightly so, the other members of the family healthy.

FAMILY IV MALAY:—

Father, slightly "latah"

Father's sister (living with the family) intensely "latah"

Mother, healthy

A very large family of which one son, the eldest of the family,
shews distinct signs of "latah," one daughter also, while the
"Benjamin" of the family is a congenital idiot.

I therefore do not feel that it is justifiable to say that "latah"
begets "latah," or, in other words, to dub it as being hereditary.
What is inherited is the impress of a nervous defect, a disequi-
libration, which may manifest itself as "latah" or some other
neurosis, the early environmental associations and the unconscious
mimicry of youth being of at least equal importance as etiological
factors.

While the Malay cannot justly be called a jungle dweller, in a
crowded town he is an exotic. Of an eminently social disposition
he never, of his own free will, chooses solitude but prefers the
village life. The bounty of Nature is such that a few hours' work
daily suffices to supply his wants and the unvarying and unfailing
rotation of the seasons relieves him of the necessity of laying up
any store against the future. There has thus been evolved a con-
tented, happy, somewhat improvident individual, of abundant
leisure, on the whole a loveable personality. In the company of
his compeers he is a cheery conversationalist or raconteur, in the
society of his superiors he, under a mask of deferential passivity,
hides an acutely sentient nature, keen to appreciate humour, sen-
sitive to praise or blame, responsive in a high degree to the moods
of his visitor, is, in short, in perfect "rapport" with him.

But when alone, much of his leisure is spent in day-dreaming or abstraction, really a subconscious state. It is difficult to conceive more favourable conditions for such a state than in a quiet village, with its warmth, its stillness and the absence of any disturbing element. So long as these moods of abstraction are intermittent and occasional, they are quite within the normal limit but when they are prolonged, as in the "fakir," they pass that limit and may then be looked on as an auto-hypnosis, or in any case, a hypnoidal state.

The condition of abstraction is difficult of comprehension by the twentieth century mind which has little opportunity for any but conscious thought, but it is a well recognised state in psychology. It is a temporary dissociation of conscious thought, during which we sink into the subconscious, and most people are aware of such a state, although they probably cannot define it. It is the "shadowy representation" of Kant, the "perceptions insensibles" of Leibnitz, the "subconscious" of Myer, the "unconscious" of Freud, the "subliminal" of Yung, and it has been defined as "the sum of all psychical processes which do not reach the level of consciousness." To illustrate my meaning is a little difficult. There are a considerable series of thoughts and memories which it is impossible to recall by any effort of volition, but which are readily brought into consciousness when a suitable stimulus, usually in the form of a similar association, presents itself. Thus it is, possibly within the experience of most, that some train of events arises which causes us to remark, "I have been through all this before, but when or where I do not recollect," the fact being that a similar train of events had been experienced and been registered in the subconscious, and it required the stimulus of a similar train to bring the recollection within the grasp of the conscious mind.

The question arises "What has this to do with "latah" ?

In the condition of abstraction (i.e. when the subconscious holds sway) so indulged in by the country Malay, the individual is readily influenced by suggestions or stimuli, and suggestions or stimuli which would be rejected by the conscious mind would exert their full influence, and, following the usual rule, their passage would, by repetition, become more rapid and easy. The subconscious, even in the educated, is but little removed from the reflex or automatic, and a further factor in the equation is that we are dealing with a primitive mind, in which many of the processes are reflex or instinctive and have not yet, or only recently, been subjected to the influence of education, the greater part of which consists in the development of the power of inhibition of our primary instincts and their adjustment to the surroundings. So far, I have been dealing with the predisposing factors to the "latah" state but the determining factor, the "X" in the equation, is the neuropathic inheritance or, what I believe to be of equal potency, early neuropathic association.

report of the firing of the rocket (a loud noise or a bright beam of light being a usual way of inducing a hypnosis) and the hypnosis was complete. If any doubt were possible, the whistling episode dispels it, the history of hypnotism being full of such examples (echolalia). There is one omission in O'Brien's narrative, he did not ascertain if the lad remembered anything of what had passed. I imagine he did not remember anything.

The intense nervousness which preceded the experiment in the case of the woman is present in all and has a threefold causation. First, dread of the coming hypnosis, especially if, in previous hypnoses, suggestions of an exciting nature have been made, secondly, from the hypnosis being made against their will, and thirdly, from the suggestion never having been done away with or determined before waking the patient. Thus the liability to suggestion gains force and eventually this class of "latah" becomes "as clay in the hands of the potter."

I pass now to the third type of "latah" to which I have given the name of the "obsession of fear." In describing Type I, I mentioned the case of a big game tracker and I used him then to illustrate the marked inhibitory influence which a mental attitude of preparedness had on "latah" impulsion. But he was also the subject of the obsession now being described and, if the word for tiger was mentioned, would quietly slip away and lock himself in his room. While out in the jungle, at work, he would spend days and nights in close proximity to the wild beasts mentioned and know no fear.

Again let me quote O'Brien's description (*op. cit.* p. 147)—

"I have more than once met with river boatmen who, when the word *buaya* (alligator) was mentioned, even in the course of casual conversation after camping for the night, would drop whatever they might have in their hands and retire cowering to the cover of the nearest *kajang*. I have enquired into every case of this description which came under my notice, and in no case could I learn that the man had any special reason for his terror in the way of a personal experience. His friends explained that he was *latah* and that to them explained everything. On one occasion, after a curious exhibition of this description, I shot an alligator on the bank next morning. The *latah* was, to my surprise, the first to approach the saurian. Against my earnest entreaties he proceeded to pull the creature about, and finally forced its mouth open with a piece of firewood. His persecutors, his fellow-boatmen, stood at a respectful distance. An hour afterwards, as he was poling up the river, one of the crew called out to this man *buaya*! He at once dropped his pole, gave vent to a most disgusting exclamation, and jumped into the river—an act which shewed that his morbid terror was quite unconnected with what might be supposed to be its exciting cause."

This type is peculiar in that it is found in early youth and is almost exclusively confined to males. It can, in fact, be traced back to school days. It is a curious fact that the names given by boys to boys hit off with absolute accuracy and brutal frankness some physical quality or mental trait which departs, it may be ever so little, from the norm. The point which I wish to emphasise is that there seems to be almost uncanny intuition in boys which enables them to put their finger on the "weak spot." They are thus not long in finding some one of their number who labours under a neuropathic defect, some particularly ticklish or sensitive boy, and on him is expended their experimentation. As I have repeatedly seen, a favourite method is for the experimenter to begin fondling some object, usually a school bag or piece of rattan or indeed anything, while pointedly bringing it to the notice of his victim, calling it by the name of some loathsome or dreaded animal, gradually working up to a climax, and inducing a condition of extreme terror.

In two of the instances which came under my notice I was able to ascertain that the boys had an actual percept of the animal named. But this is unusual, and when this illusion does occur, it is only temporary, as, following the rule that repeated stimulation of a particular nervous tract enhances its permeability, causing it to react to weakened stimuli, eventually the mere mention of the name is sufficient to call up this condition of terror. There is no concept of the animal formed but merely the image in the memory of a previous condition of intense fear. As on each occasion of the calling up of this mental state a strenuous effort was made to escape from the imaginary danger, the tendency in this type of "latah" is to pass at once into action.

I do not think there can be much doubt that "latah" is dying out and in contributing to this, education plays an altogether subordinate part. There is the obvious fact that little or nothing is being done in the way of educating Malay girls, who would form the mass of the sufferers in later life. Not much can be expected from that side of education which provides for the acquisition of knowledge, much more might be got from the disciplinary side of education in that it develops the powers of restraint, teaches the control of reflex or automatic acts, in short, develops the power of inhibition and creates a constant condition of preparedness.

The chief influence in the extinction of "latah" is the gradual hardening of the conditions of life, the increasing struggle for existence from steadily advancing social states, which leaves no leisure for abstraction or introspection and which affects male and female alike. "Latah" in town dwellers is unknown and a comparison of the country-bred Malay women and her self-possessed sister of the town shews the extent of the change which may be wrought by a change of environment in an individual or a generation.

MEDICAL NOTE.

The examination of a number of persons, the subjects of "latah," did not bring to light any single condition, pathological or otherwise which, by its frequency of occurrence, would entitle it to be ranked as an etiological factor. The cases examined ranged from those who were merely abnormally ticklish to those who responded to every suggestion however conveyed.

In all there was a great acceleration of the pulse rate at the beginning of the examination. This was undoubtedly due to the condition of "expectation" and, after they were satisfied that no experiments were in contemplation, rapidly subsided. There were two exceptions both middle-aged women who were goitrous and shewed the muscular tremors of that disease.

The reflexes, superficial and deep were in excess and Babinski was normal. A confusing intrusion was the finding the results of a peripheral neuritis shewn by a paraesthesia or anaesthesia of the hands and feet and a corresponding loss of the reflex. This condition was present in three of the women examined. Although the causes of a peripheral neuritis in this part of the world are many it was possible, from the fact that all three women were multiparae and from a careful analysis of their histories, to arrive at the conclusion that the neuritis was probably of puerperal origin, known to natives as "taipo."

There was a perceptible difference in the rapidity of the responses according to the route chosen to convey the suggestion, the tactile being easily first, the visual next and the auditory last.

Stigmata of Syphilis were surprisingly rare.



New or Noteworthy Bornean Plants.

(PART I.)

BY ELMER D. MERRILL

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In January, 1918, I finished the manuscript of my "Bibliographic Enumeration of Bornean Plants" in which nearly 5000 species of flowering plants are recorded from Borneo, and which was recently published by this Society. In the interim comparatively little attention was given to the Bornean flora, merely such material being worked up as was submitted to me for identification by the Conservator of Forests at Sandakan.

Previous to my departure for the United States in 1920, co-operative arrangements were perfected between the Bureau of Science and the Forestry Service of British North Borneo, whereby it became possible to send Mr. Maximo Ramos, botanical collector of the Bureau of Science, to Sandakan for the purpose of prosecuting field work in botany in British North Borneo. Mr. Ramos devoted approximately three and one-half months to field work in the immediate vicinity of Sandakan, from September to December 1920. In this time he collected 827 numbers of flowering plants and ferns, for the most part with ample duplicate material. On my return to Manila in the early part of 1921, I commenced a study of this material, finding approximately 700 species represented in the collection, of which nearly 100 have been found to represent previously undescribed forms, including three new generic types. In addition to these new species, numerous previously described ones not hitherto known from Borneo are also represented in the collection. Considering the fact that the entire collection was made at low altitudes and in the immediate vicinity of Sandakan, the percentage of novelties is unusually high. It is merely an excellent illustration of how little we know regarding the Bornean flora.

The present paper is largely based on the material secured by Mr. Ramos in 1920 in British North Borneo, but various species are also described from material secured by other collectors both in British North Borneo and in Sandakan. Small collections made by Major J. C. Moulton in Upper Baram in 1914 and 1920 have yielded interesting novelties. In the present paper 104 species are described

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as new, while 58 previously described forms are recorded for the first time from Borneo. Three new genera are described, *Fissipetalum* of the Olacaceae, *Jupia* of the Menispermaceae, and *Woodiella* of the Anonaceae. The list of species common and confined to the Philippines and Borneo has been increased by *Dinochloa pubiramea* Gamble, *Mapania affinis* Merr., *Dioscorea flabellifolia* Prain & Burkill, *Phacelophrynium bracteosum* K. Schum., *Polyalthia dolichophylla* Merr., *Dehaasia triandra* Merr., *Erodia bintoco* Blanco, *Santiria samarensis* Merr., *Dichapetalum holopetalum* Merr., *Actephila dispersa* Merr., *Cleistanthus megacarpus* C. B. Rob., *Omphalea bracteata* Merr., *Iodes philippinensis* Merr., *Eugenia palawanensis* C. B. Rob., *Strychnos ignatii* Berg., and *Solanum epiphyticum* Merr. In addition to the three genera described as new, mentioned above, the following genera are hitherto unrecorded from Borneo: *Phacelophrynium*, *Iligera*, *Cnestis*, *Actephila*, *Iodes*, *Actinidia*, *Taraktogenos*, and *Clidemia*. Including the species described as new and those previously described forms now credited to Borneo for the first time, the present contribution (published in two parts) adds a total of 162 species to the list of those known from Borneo.

Bureau of Science Manila, P. I.

November 15, 1921.

PANDANACEAE.

Pandanus Linnaeus f.

Pandanus sandakanensis sp. nov. § *Rykia*.

Frutex circiter 3 m. altus; foliis coriaceis, circiter 1.75 m. longis, 3 cm. latis, tenuiter acuminatis, nitidis, margine acute serratis, costa subtus in partibus superioribus serratis; syncarpiis 3 ad 5, ovoideis vel ellipsoideis, confertis, in spica dispositis, 6 ad 8 cm. longis; drupis numerosis, 1-locellatis, induratis, 2 cm. longis, circiter 1 cm. latis, angulatis, deorsum angustatis, alte connatis, apice convexis, stylo abrupte terminatis; stylis induratis, obliquis, 4 mm. longis et latis, nitidis, plerumque 2-dentatis.

A shrub about 3 m. high. Leaves coriaceous, shining, smooth, about 1.75 m. long, 3 cm. wide, the midrib somewhat impressed on the upper surface, prominent on the lower surface, smooth except in the upper part and beneath where it is finely toothed; the lateral nerves slender, obscure, about 30 on each side of the midrib, the margins rather coarsely and sharply toothed in the lower part and with much more numerous, smaller, rather densely arranged teeth in the upper part, the apex very slenderly caudate-acuminate. Syncarps crowded in erect, peduncled racemes from 3 to 5 in a head, ovoid to ellipsoid, 6 to 8 cm. long, 5 to 6 cm. in diameter, dark-brown when dry, the peduncles up to 20 cm. long, thickened upward, about 1 cm. in diameter, marked with conspicuous, indurated crests, the remnants of fallen sheaths. Drupes numerous, oblong-obovoid, 1-celled, about 2 cm. long, 1 cm. wide, angular, narrowed below, united for $\frac{2}{3}$ of their length; the pericarp indurated, the

hollow portion above the seed 4 to 5 mm. in diameter, the apical free portions convex, abruptly terminated by the somewhat oblique, indurated, shining style which is about 4 mm. long and wide and usually with 2 conspicuous teeth.

British North Borneo, Sandakan, *Ramos* 1790, December, 1920. In rather dry forests at low altitudes. A species belonging in the group with *Pandanus labyrinthicus* Kurz, but with fewer, much smaller syncarps and somewhat smaller drupes.

***Pandanus matthewsii* sp. nov. § *Astrostigma*.**

Frutex, ramis ultimis 1.5 cm. diametro; foliis numerosis, coriaceis, in siccitate pallidis, usque ad 1 m. longis, 1.5 cm. latis, tenuiter acuminatis, margine distanter serratis; syncarpiis solitariis, erectis, ellipsoideis, circiter 8 cm. longis, pedunculatis, drupis numerosissimis, 1-locellatis, confertis, lineari-oblongeolatis, 1.5 ad 1.8 cm. longis; stigma in syncarpio imbricata, plana, 2.5 ad 3 mm. diametro, margine perspicue dentata vel crenato-dentata.

A shrub, the ultimate branches about 1.5 cm. in diameter. Leaves numerous, coriaceous, pale when dry, up to 1 m. long, about 1.5 cm. wide, gradually narrowed upward to the slenderly acuminate apex, the margins rather distantly and sharply toothed, the midrib on the lower surface in the upper part with similar teeth, the teeth slender, ascending, 1 to 1.5 mm. long, the midrib prominent on the lower surface, impressed on the upper surface, the lateral nerves slender, 25 to 30 on each side of the midrib, densely arranged. Staminate inflorescences club-shaped, about 7 cm. long, 1.6 cm. in diameter, the peduncles about 6 cm. long, subtended by several, oblongeolate, sharply acuminate, chartaceous bracts about 9 cm. in length. Syncarps terminal, solitary, erect, ellipsoid, about 8 cm. long, 4.5 to 5 cm. in diameter, their peduncles up to 10 cm. long, about 6 mm. in diameter, brown, shining and longitudinally sulcate when dry, the leaf-like bracts subtending the syncarps, up to 25 cm. in length. Drupes very numerous, crowded, linear-oblongeolate, 1.5 to 1.8 cm. long, about 2 mm. in diameter, 1-celled, attenuate at the base, united throughout except for the 2 mm. long styler portion; the stigmas plane, subreniform, imbricate, 2.5 to 3 mm. in diameter, their margins distinctly and radially dentate or crenate-dentate.

British North Borneo, Batu Lima, near Sandakan, *Ramos* 1321, October, 1920. In flat forests along streams at low altitudes. A very characteristic species belonging in the group with *Pandanus stelliger* Ridl. and *P. discostigma* Martelli, for which Martelli has proposed the sectional name *Astrostigma*. It is most closely allied to the latter species, but differs radically in its longer leaves, larger ellipsoid syncarps, and distinctly toothed stigmas. The species is dedicated to Mr. D. M. Matthews, formerly Conservator of Forests in British North Borneo.

Pandanus obovoideus sp. nov. § *Acrostigma*.

Frutex erectus, circiter 2 m. altus; foliis 2 ad 2.5 m. longis, 3.5 ad 4 cm. latis, coriaceis, abrupte acuminatis, margine denticulatis; syncarpiis 4 vel 5, confertis, obovoideis, 8 ad 10 cm. longis, 7 ad 9 cm. latis; drupis numerosissimis, confertis, 1-locellatis, circiter 3 cm. longis, usque ad 5 mm. diametro, apice pyramidatis, scaberulis, brunneis, attenuatis; stylis rectis vel curvatis, rigidis, spiniformis, circiter 1 cm. longis.

An erect shrub about 2 m. high. Leaves 2 to 2.5 m. long, 3.5 to 4 cm. wide, coriaceous, rather pale when dry and somewhat glaucous beneath, margins distantly and minutely toothed, the midrib beneath in the upper half sparingly denticulate, the two lateral nerves on the upper surface sparingly denticulate for the upper 20 to 30 cm., apex slightly acuminate, the acumen rigid, slender, 2 to 3 cm. long. Syncarps usually 5, obovoid, crowded at the apex of the peduncle, 8 to 10 cm. long, 7 to 9 cm. in diameter. Drupes very numerous, crowded, about 3 cm. long, up to 5 mm. in diameter, base attenuate, narrowed into the rigid, very sharp, straight or curved style, the apical part 10 to 12 cm. long, brown when dry, minutely scabrid. Endocarp in the lower one-half, about 1 cm. long, base acute, apex rounded. The hollow space in the mesocarp about 8 mm. long, less than 5 mm. wide.

British North Borneo, Kudat. *Castro* 976, November 20, 1920. In the hills on the Pitas Estate, altitude about 25 m. This species must be closely allied to *Pandanus gibbsianus* Martelli, which, however, according to Miss Gibbs, quoted by Martelli, has leaves 10 to 12 cm. wide, while in the present species they do not exceed 4 cm. in width. The obovoid, rather than oblong or globose syncarps, are rather smaller than in Martelli's species, but there are apparently but slight differences in the drupes.

Pandanus pachyphyllus sp. nov. § *Acrostigma*.

Caulis 3 cm. diametro, 10 ad 15 cm. alta, simplex; foliis numerosis, confertis, crasse coriaceis, circiter 3.2 m. longis, 5 ad 6 cm. latis, tenuiter acuminatis, margine acute dentatis, dentibus superioribus parvis confertis, inferioribus majoribus distantibus patulis; syncarpiis erectis, solitariis, globosis, 10 cm. diametro, drupis numerosissimis, confertis, 1-locellatis, circiter 4 cm. longis, 5 mm. diametro, in dimidio inferiore connatis, in dimidio libero lanceolatis perspicue 5-carinatis acuminatis brunneis 4 ad 5 mm. diametro, rectis vel leviter curvatis, stigmatibus spiniforme.

Stemless or nearly stemless, the leaf-bearing portions of the stems above the surface of the ground 10 to 15 m. high, about 3 cm. in diameter, unbranched. Leaves numerous, crowded, thickly coriaceous, about 3.2 m. long, 5 to 6 cm. wide, narrowed upward to the slenderly acuminate apex, pale when dry, somewhat shining, the midrib impressed on the upper surface, prominent on the lower surface, the lower part furnished with widely scattered, rather stout

teeth, the upper part finely and rather closely toothed on the lower surface, the 2 lateral nerves finely toothed on the upper surface near the apex, the margins with distant, stout, spreading teeth in the lower part, rather finely and closely toothed in the upper part. Syncarps erect, terminal, globose, about 10 cm. in diameter, their peduncles about 8 mm. in diameter, obscurely angled, brown, 10 to 15 cm. long. Drupes very numerous, crowded, 1-celled, including the styler and stigmatic portions 4 cm. long, the lower 2 cm. entirely united, the individual drupes about 5 cm. in diameter, narrowed below, the pericarp rather thin, the seeds about 1 cm. long, the empty portion above the seeds about 4 mm. in length; free portions lanceolate, often somewhat curved, brown, prominently 5-keeled, acuminate, 4 to 5 mm. in diameter, narrowed upward to the spiniform, somewhat curved stigma, the free portions equalling the drupes proper in length.

British North Borneo, Batu Lima, near Sandakan, *Ramos* 1541. In forests along small streams at low altitudes. A species strongly characterized by being practically acaulescent and unbranched, as well as by its greatly elongated, thickly coriaceous leaves and its solitary, erect, globose syncarps. The free, lanceolate, acuminate, somewhat curved, prominently 5-carinate portions equal the drupe proper in length, the drupes being wholly united. It apparently belongs in the group with *Pandanus danckelmannianus* K. Schum. of New Guinea.

GRAMINEAE.

Themeda Forskal.

Themeda frondosa (R. Br.) Merr. Interpret. Herb. Amb. (1917) 89.

Anthistiria frondosa R. Br. Prodr. (1810) 200.

Themeda arguens Hack. in. DC. Monong. Phan. 6 (1889) 657, non *Stipa arguens* Linn.

British North Borneo, Sandakan, *Ramos* 1868. In open places at low altitudes. Malay Peninsula and Archipelago to tropical Australia. *Themeda arguens* Hack. is properly the name for the species currently known as *T. ciliata* Hack. of India.

Panicum Linnaeus.

Panicum carinatum Presl, Rel. Haenk. 1 (1830) 309.

British North Borneo, Sandakan, *Yates* 8, *Ramos* 1305. In thickets at low altitudes. Throughout the Philippines, perhaps occurring in some other parts of Malaya; not always clearly distinguishable from *Panicum patens* Linn.

***Panicum distachyum* Linn. Mant. 1 (1867) 138.**

British North Borneo, Sandakan, *Ramos 1765*. Along roads and in open places. Not previously recorded from Borneo. India to China, through Malaya to tropical Australia.

Dinochloa* Buse.**Dinochloa pubiramea* Gamble in Philip. Journ. Sci. 5 (1910) Bot. 279; Camus Bamb. (1913) 171.**

British North Borneo, near Sandakan, *Agama 1019*, November, 1920. Philippines (Basilan, Mindanao, Negros, Samar, Leyte). This adds another species to the comparatively small list of those known only from Borneo and the Philippines.

CYPERACEAE.***Mapania* Aublet.*****Mapania sessilis* sp. nov. § *Pandanophyllum*.**

Inflorescentiis spiculiformibus, sessilibus, plerisque infra foliis, castaneis, compressis vel plus minusve triquetris, numerosis, oblongis, 3—3.5 cm. longis; bracteis inferioribus 3—5 mm. longis, 6 vel 8 superioribus imbricatis, oblongo-ovatis, acutis, leviter carinatis, 2.5 cm. longis, 1 cm. latis; acheniis circiter 6, osseis, oblongo-ellipsoideis, 7 ad 8 mm. longis, 3.5 mm. diametro, tenuiter longissime rostrato-acuminatis; foliis numerosis, usque ad 1.3 m. longis, 1.5 cm. latis, deorsum leviter angustatis, basi 1 cm. latis, supra gradatim angustatis, tenuiter longissime caudato-acuminatis, margine serrulatis.

Caudex rather stout, castaneous, somewhat triquetrous, 1.5 cm. in diameter, about 10 cm. high. Leaves numerous, up to 1.3 m. long, about 1.5 cm. wide, gradually narrowed upward to the very slenderly long-acuminate apex, only slightly narrowed below, the basal portions about 1 cm. in width, margins serrulate throughout except near the base, the basal sheathing portions of the leaves castaneous. Inflorescences numerous, sessile or subsessile, of single spikelet-like heads, axillary and along the caudex below the leaves, oblong, castaneous when dry, 3 to 3.5 cm. long, 8 to 10 mm. wide, more or less compressed or somewhat triquetrous, the lower few bracts ovate-oblong to ovate, 3 to 5 mm. long, the succeeding six or eight bracts castaneous, imbricate, shining, somewhat keeled, acute, about 2.5 cm. long, 1 cm. wide, generally oblong-ovate. Glumes white, membranaceous, crowded, scarcely extending beyond the upper bracts. Achenes about 6 in each head, hard, dry, terete or slightly compressed, dark-colored, oblong-ellipsoid, 7 to 8 mm. long, about 3.5 mm. in diameter, long-beaked, the beak and persistent portions of the style about as long as the achenes.

British North Borneo, near Sandakan, *Ramos 1856*, December, 1920. In damp forests along small streams at low altitudes. A remarkably distinct species well characterized by its sessile or subsessile, numerous, oblong, simple, spikelet-like heads and its unusually large, imbricate bracts, the glumes membranaceous and scarcely extending beyond the uppermost bracts. It is the only species of the genus with which I am acquainted, in which the inflorescences are sessile or nearly so, while in this form they are, for the most part, confined to the caudex below the leaves, occurring singly in the axils of decayed leaves from the very base of the caudex.

***Mapania affinis* sp. nov. § *Halostemma*.**

Caudex brevis, crassus, circiter 1.5 cm. diametro; foliis numerosis, perspicue 3-nerviis, usque ad 1.7 m. longis 3 vel 3.5 cm. latis, deorsum vix angustatis, apice subabrupte caudato-acuminatis, acuminis serrulatis tenuibus 3 ad 5 cm. longis, margine et costa subtus in partibus superioribus minute serrulatis; scapis paucis, glabris, sub anthesin circiter 5 cm. longis, sub fructu usque ad 14 cm. longis, partibus inferioribus (ca. 5 cm.) bracteis numerosis imbricatis instructis; capitulis sub anthesin circiter 2 cm. longis, bracteis capitulum aequantibus, sub fructu 5 vel 6 cm. diametro; spiculis circiter 18, ovoideis, 2.5 cm. longis, liberis; acheniis nigris, osseis, oblongo-ovoideis, 4 mm. longis, breviter acuminatis.

Caudex short, stout, about 1.5 cm. in diameter. Leaves numerous, prominently 3-nerved, up to 1.7 m. long, 3 to 3.5 cm. wide, scarcely narrowed below, the basal portions folded and usually straw-colored, the apex subabruptly caudate-acuminate, the acumen slender, serrulate, 3 to 5 cm. long, the margins and midrib on the lower surface in the upper part of the leaf minutely serrulate. Scapes few, glabrous, terete, in anthesis about 5 cm. long, in fruit up to 14 cm. long, somewhat thickened upward and 3 to 4 mm. in diameter, the basal 5 cm. supplied with numerous imbricate bracts, the lower ones close, broadly ovate, about 1 cm. long, the upper ones gradually longer, the uppermost oblong-ovate, acute up to 3.5 cm. long. Heads in anthesis about 2 cm. long, oblong-ovoid, the outer bracts as long as the head, about 12 mm. wide, elliptic-ovate, acute, somewhat keeled, the apical portions sparingly appressed-pubescent; heads in fruit 5 to 6 cm. in diameter, composed of numerous (15 to 18) ovoid, large, free spikes up to 2.5 cm. long. Achenes numerous, black, bony, oblong-ovoid, terete or irregularly compressed, about 4 mm. long, shortly acuminate.

British North Borneo, near Sandakan, *Ramos 1596*, November, In damp forests at low altitudes. The same species is represented by *Clemens 9330*, collected at Jolo, Sulu Archipelago, October 15, growing on forested slopes at an altitude of about 800 m. A species belonging in the general alliance with *Mapania palustris* F.-Vill., but differing radically in its mature fruiting heads which are much larger than in the latter species, the individual spikes or partial

inflorescences being also much longer, up to 2.5 cm. in length. The peduncles are also shorter in the present species and are entirely glabrous. In all the Malayan material representing *M. palustris* that I have seen the peduncles are furfuraceous.

***Mapania gracilipes* sp. nov. § *Pandanophyllum*.**

Caudex brevis, circiter 1 cm. crassus; foliis numerosis, circiter 60 cm. longis, 1 cm. latis, deorsum vix angustatis, partibus inferioribus plicatis, apice longe tenuiterque caudato-acuminatis, margine obscure serrulatis; scapis tenuibus, 12 ad 20 cm. longis, vix 1 mm. diametro, basi squamis paucis oblongis 5 ad 13 mm. longis instructis; capitulis solitariis, circiter 1 cm. longis, spicis propriis inter se vix distinctis, squamis exterioribus oblongo-ovatis, capitula aequantibus; capitulis fructiferis ovoideis, circiter 1.5 cm. diametro; acheniis ovoideis, nigris, osseis, 2.5 mm. longis, breviter apiculatis.

Caudex short, about 1 cm. in diameter. Leaves numerous, about 60 cm. long, 1 cm. wide, 3-nerved, pale-grayish when dry, the basal portions straw-colored, scarcely narrowed below, the apex gradually narrowed in a long, slender, caudate, denticulate acumen, the margins and the midrib beneath in the upper part obscurely serrulate. Scapes several, lateral, very slender, terete, 12 to 20 cm. long, scarcely 1 mm. in diameter, subtended at the base by few, oblong, 5 to 15 mm. long bracts, each scape bearing a solitary head about 1 cm. long, the head made up of several spikes which are scarcely distinct; external scales oblong-ovate, about 1 cm. long, brownish, equalling the head in length; fruiting heads ovoid, about 1.5 cm. in diameter and 1 cm. in length. Achenes obovoid, lax, bony, 2.5 mm. long, shortly apiculate.

British North Borneo, near Sandakan, *Ramos* 1855, December, 1920. In damp forests at low altitudes. This species is well characterized by its narrow leaves; its very slender elongated scapes; and its small heads, the latter in anthesis about 1 cm. long, the outer bracts as long as the head. In fruit the heads appear as if they were made of three or more spikes, but these spikes are scarcely distinct from each other. The bony achenes are but 2.5 mm. in length, and are very shortly apiculate. It is probably most closely allied to *Mapania debilis* C. B. Clarke.

***Mapania heterocephala* sp. nov. § *Pandanophyllum*.**

Caudex brevis, circiter 1.5 cm. crassus; foliis numerosis, pallidis, 1-nerviis, circiter 85 cm. longis, 2.5 ad 3 cm. latis, deorsum leviter angustatis, partibus inferioribus circiter 2 cm. latis, sursum gradatim angustatis, longe caudato-acuminatis, margine et costa subtus in partibus superioribus serrulatis; scapis paucis, usque ad 9 cm. longis, 1.5 mm. diametro, partibus inferioribus (2 ad 3 cm.) bracteis numerosis imbricatis instructis; inflorescentiis spiciformibus, solitariis vel trinis, cylindraceis, circiter 3 cm. longis, 8 mm. diametro; bracteis numerosis, imbricatis, circiter 13 mm. longis,

6 mm latis, oblongo-ellipticis, obtusis et brevissime apiculatis, margine scariosis; acheniis anguste oblongo-obovoides, teretibus, osseis, 5 mm. longis, acutis vel brevissime apiculatis.

Caudex short, stout, about 1.5 cm. in diameter. Leaves numerous, pale-grayish when dry, not very rigid, 1-nerved, about 85 cm. long, 2.5 to 3 cm. wide, slightly narrowed below, the basal part about 2 cm. wide, gradually narrowed upward to the long and slenderly caudate-acuminate apex, the margins and the midrib on the lower surface in the upper part serrulate. Scapes few, lateral, from the caudex below the leaves, up to 9 cm. long, 1.5 mm. in diameter, terete, the lower two to three cm. supplied with numerous imbricate bracts, the bracts ovate to oblong-ovate, 1 to 1.5 cm. long. Inflorescences consisting of a single, solitary, spike-like head or sometimes of three separate, fascicled, similar heads, both types occurring on the same plant, the individual heads terete, about 3 cm. long, 8 mm. in diameter, composed of numerous imbricate bracts, the bracts oblong-elliptic about 13 mm. long, 6 mm. wide, obtuse and very shortly apiculate, their margins scarious. Achenes bony, narrowly oblong-obovoid, terete, grayish, about 5 mm. long, 2 mm. in diameter, slightly narrowed below, the apex acute or very slightly apiculate.

British North Borneo, Sandakan, *Ramos* 1854, December, 1920. In damp forests along small streams at low altitudes. This species is remarkable in the inflorescences. When the scape bears a single head, the head very strongly resembles that of *Mapania humilis* F. Vill., but the same plant other scapes occur which bear three fasciculately arranged spikes at their apices. In leaf characters, however, the species is remote from *M. humilis*. It is probably most closely allied to *Mapania longa* C. B. Clarke, but has much shorter scapes and broader leaves.

Cyperus Linnaeus.

Cyperus procerus Rottb. Descr. Nov. Pl. (1773) 29.

British North Borneo, Batu Lina, near Sandakan, *Ramos* 1681. In open swampy places. India to southern China, Indo-China and Java.

ARACEAE.

Schismatoglottis Zollinger & Moritzi.

Schismatoglottis ferruginea sp. nov.

Caudiculus abbreviatus vel paullo elongatus, usque ad 6 mm. crassus, hypogaeus; petiolis et pedunculis et subtus foliis ad costam nervosque perspicue ferrugineo-ciliatis; foliis membranaceis, ellipticis vel obovato-ellipticis, 12 ad 22 cm. longis, breviter acuminatis, basi rotundatis et perspicue cordatis; nervis primariis utrinque circiter 20; petiolo 5 ad 17 cm. longo; inflorescentiis paucis, pedun-

culatis (pedunculo 3 ad 4 cm. longo); spathis subcylindræis, haud constrictis, 4 ad 7 cm. longis, 6 mm. diametro, deorsum plus minusve ciliatis, sursum glabris. Species *S. barbata* Engl. affinis.

Petioles, exposed portions of the short caudex, peduncles, and the lower surface of the leaves, especially along the midrib, conspicuously ferrugineously ciliate with elongated spreading hairs. Leaves membranaceous when dry, elliptic to obovate-elliptic, 12 to 22 cm. long, 6 to 10 cm. wide, the apex shortly acuminate, the base rounded and distinctly cordate, the basal lobes more or less overlapping, the sinus 8 to 15 mm. deep, the margins slightly revolute, the upper surface olivaceous, glabrous, somewhat shining, the lower surface paler than the upper; the indumentum largely confined to the midrib, primary and secondary nerves; primary nerves spreading, curved, ultimately ascending, about 20 on each side of the midrib, not very much more prominent than the secondary ones; petioles 5 to 17 cm. long, up to 5 mm. in diameter, sheathing in the lower 3 to 4 cm. Inflorescences few, the peduncles 3 to 4 cm. long. Spathes subcylindric, 4 to 7 cm. long, about 6 mm. in diameter, the basal portion more or less ciliate, the deciduous limb glabrous.

British North Borneo, Batu Lima near Sandakan, *Ramos* 1657, (type), 1753, November, 1920. On boulders in forests at low altitudes. A species strongly characterized by its indumentum, in this character approaching *Schismatoglottis barbata* Engl., but differing radically in its much larger size and in its leaves being conspicuously cordate at the base.

COMMELINACEAE.

Forrestia Lesson.

Forrestia glabrata Hassk. in *Flora* 47 (1864) 630; C. B. Clarke in DC. Monog. Phan. 3 (1881) 238.

British North Borneo, near Sandakan, *Wood* 932; Mount Kinabalu, Kiau, *Clemens* 9950, 9997; Sarawak, *Native collector* 2120, 2147 *Bur. Sci.* Bengal, Sumatra, Java.

LILIACEAE.

Pleomele Salisbury.

Pleomele borneensis sp. nov.

Frutex vel arbor parva, ramosus, glaber, ramulis 1.2 ad 1.5 cm. diametro; foliis numerosis, confertis, lineari-lanceolatis, coriaceis, 45 ad 55 cm. longis, 1.5 ad 2.5 cm. latis, acuminatis, deorsum haud angustatis; paniculis terminalibus, erectis, multifloris, ramis usque ad 40 cm. longis; floribus fasciculatis, 2 cm. longis, tubo 1 cm. longo, lobis linearis, 1 mm. latis, obtusis; fructibus subgloboseis, brunneis, leviter inaequilateralibus, apiculatis, 1-, rariter 2-locellatis, 8 ad 10 mm. diametro.

A branched shrub or small tree entirely glabrous, the ultimate branches 12 to 15 mm. in diameter. Leaves numerous, crowded at the tips of the branchlets, linear-lanceolate, coriaceous, 45 to 55 cm. long, 1.5 to 2.5 cm. wide, rather slenderly acuminate, not or but slightly narrowed below, the base sheathing. Panicles terminal, erect, 50 to 60 cm. long, the branches ascending, brownish or olivaceous when dry, up to 40 cm. long, the lower ones subtended by reduced leaves, the upper ones by oblong-lanceolate bracts 1.5 to 2 cm. in length, or the uppermost bracts less than 1 cm. in length. Flowers 2 cm. long, in fascicles of 3 to 5 along the primary branches, their pedicels up to 6 mm. long, the subtending bracts broadly ovate to oblong, obtuse, 2 to 4 mm. long, the bracteoles smaller. Perianth-tube 1 cm. long, the linear lobes 1 mm. wide, obtuse. Anthers 2 mm. long. Ovary oblong, glabrous, 2 mm. long. Fruits dark-brown, fleshy, subglobose, somewhat inequilateral, apiculate by the persistent styles, when dry 8 to 10 mm. in diameter, 1-, rarely 2-celled.

British North Borneo, near Sandakan, *Ramos* 1414 (type), *Wood* 745, October and February, 1920, *Castillo* 608, February, 1918. In forests and along small streams at low altitudes. A species belonging in the group with *Pleomele angustifolia* N. E. Br., but with much larger leaves than that species.

Smilax Tournefort.

Smilax gigantea sp. nov. § *Eusmilax*.

Frutex scandens, ramis teretibus, striatis, 8 ad 10 mm. diametro, aculeatis; foliis late ovatis, chartaceis, circiter 35 cm. longis latisque, breviter abrupteque acuminatis, basi latissime rotundatis, perspicue cordatis, 9-nerviis, supra glabris, subtus pubescentibus; infructescentiis circiter 30 cm. longis, umbellulis numerosis, 5 vel 6 cm. diametro, longe pedunculatis, fasciculatis, rhachibus compressis, circiter 20 cm. longis; fructibus globosis, tenuiter pedicellatis, circiter 1 cm. diametro.

A large, coarse, woody vine, the inflorescence-bearing branches terete, brown, striate, 8 to 10 mm. in diameter, armed with scattered, very stout, narrowly pyramidal spines about 2 mm. in length. Leaves broadly ovate, chartaceous to subcoriaceous, about 35 cm. long and wide, the apex very shortly and abruptly acuminate, the base broadly rounded and deeply cordate, the upper surface smooth, glabrous, shining, brownish-olivaceous, the lower surface brownish, rather softly and densely pubescent, the indumentum short, not at all stellate; petioles stout, about 7 cm. long, the sheathing basal portion about 3 cm. in length; nerves about 9, all basal, prominent, the reticulations rather lax. Infructescences about 30 cm. long, the umbels racemously disposed, from 3 to 6 in the axil of each bract, their peduncles 7 to 10 cm. long, the rachis usually about 20 cm. in length, 4 to 6 mm. wide, strongly flattened, the umbels up to

25 in each infructescence. Fruits globose, shining when dry, about 1 cm. in diameter, 12 to 25 in each umbel, their pedicels slender, 1.5 to 1.8 cm. in length.

British North Borneo, Sebuga near Sandakan, *Ramos* 1850, November, 1920. On damp forested slopes at low altitudes; locally known to the Malays as *Kababu*. A remarkably distinct species on account of its very large, broadly ovate, cordate leaves which are rather densely pubescent on the lower surface; and its ample infructescences which are nearly as long as the leaves. It is allied to *Smilax borneensis* C. DC., but differs radically in its vegetative characters and in the indumentum on the lower surface of the leaves being of simple not stellate hairs.

***Smilax woodii* sp. nov. § *Coilanthus*.**

Species *S. hypoglaucae* affinis: ramis ramulisque laevibus, inermibus, teretibus, tenuibus; foliis coriaceis vel subcoriaceis, lanceolatis vel elliptico-lanceolatis, 6 ad 9 cm. longis, acuminatis, basi acutis vel subrotundatis, 3- vel 5-nerviis, subtus glaucis; pedunculis tenuibus, quam petiolo longioribus; floribus ♂ umbellatis; sepalis glaucescentibus, 2 mm. longis; pedicellis 3 vel 5 mm. longis.

A scandent, glabrous, unarmed, somewhat woody vine, the branches and branchlets slender, brown, terete. Leaves coriaceous to subcoriaceous, lanceolate to elliptic-lanceolate, 6 to 9 cm. long, 2 to 3.5 cm. wide, acuminate, base acute to subrounded, 3- or 5-nerved, nerves slender, reticulations very obscure, the upper surface brownish, shining, the lower very glaucous; petioles 5 to 10 mm. long, those of the older leaves sometimes tendrilliferous. Umbels axillary, solitary, each about 15-flowered, the peduncles up to 10 mm. long, the pedicels 3 to 5 mm. long. Male flowers somewhat glaucous, the sepals ovate, 2 mm. long, 1.5 mm. wide; petals oblong, obtuse, 1.5 mm. long, 0.6 mm. wide; stamens 6.

British North Borneo, Sandakan, *Wood* 1097 (type), October 28, 1920, on slopes, altitude about 18 m. Sarawak, *Native Collector* 835 *Bur. Sci.* August, 1912. A species manifestly closely allied to *Smilax hypoglauca* Benth., and *S. peguana* A. DC., but distinct from both.

AMARYLLIDACEAE.

Curculigo Gaertner.

***Curculigo borneensis* sp. nov.**

Foliis chartaceis, anguste lanceolatis, 35 ad 50 cm. longis, 5 ad 6 cm. latis, utrinque subaequaliter angustatis, basi cuneatis, apice tenuiter filiformibus, acuminatis, supra glabris, subtus parvisime pubescentibus, nervis utrinque 5 vel 6; petiolo 20 ad 25 cm. longo; inflorescentiis erectis, brevissime pedunculatis, densis, subglobosis vel ovoidis, circiter 4 cm. diametro, bracteis exterioribus ovatis oblongo-ovatis; 2 vel 3 cm. longis, tenuiter acuminatis, junioribus plus minusve ciliatis; petalis anguste oblongis, 10 mm. longis, tubo

dense villosa; fructibus ovoideis, hirsutis, 8 mm. longis, rostratis, rostro 8 ad 10 mm. longo, hirsuto.

A tufted, plant from a rather stout, short rootstock. Leaves chartaceous, narrowly lanceolate, 35 to 50 cm. long, 5 to 6 cm. wide, subequally narrowed at both ends, the base cuneate, the apex very slenderly acuminate, the tip filiform, the upper surface glabrous, the lower surface with very few scattered hairs; lateral nerves distinct, 5 to 6 on each side of the midrib; petioles 20 to 25 cm. long, rather slender, glabrous or with few scattered hairs, their bases inflated, sheathing. Inflorescences erect or suberect, dense, short-peduncled, subglobose or ovoid, about 4 cm. in diameter, the bracts chartaceous, ovate to oblong-ovate, 2 to 3 cm. long, the outer ones about 1 cm. wide, slenderly long-acuminate, when young more or less ciliate, in age glabrous or nearly so; peduncles more or less hirsute, about 2 cm. long. Flowers numerous, crowded, but few developing at one time, yellow, the perianth-tube extended at least 6 mm. above the ovary, villous, the segments narrowly oblong, about 10 mm. long, 2.5 mm. wide, slightly pubescent, ultimately nearly glabrous. Stamens as long as the perianth-segments, the anthers 3.5 to 4 mm. long, linear. Fruits ovoid, somewhat hirsute, about 8 mm. long, black when dry, tipped with a stout, 8 to 10 mm. long, hirsute beak.

British North Borneo, at Batu Lima and Sebuga near Sandakan, *Ramos* 1837 (type), 1712, November and December, 1920. In damp forests at low altitudes. A species belonging in the group with *Cucurligo latifolia* Dry. and most closely allied to *C. brevipedunculata* Elm. of Palawan and Balabac, differing from the latter especially in its longer perianth-segments and in its smaller fruits which have shorter beaks than in the Philippine species.

***Curculigo glabrescens* (Ridl.) comb. nov.**

Curculigo latifolia Dry. var. *glabrescens* Ridl. Mat. Fl. Malay Penin. (Monocot.) 2 (1907) 67.

British North Borneo, Kudat, *Castro* 982: Sarawak, *Native Collector* 445, 637, 1497, 2432, 2701 *Bur. Sci. Malay Peninsula, Sumatra*.

DIOSCOREACEAE.

***Dioscorea* Linnaeus.**

Dioscorea flabellifolia Prain & Burkill in Elmer, Leaf. Philip. Bot. 5 (1913) 1593, and in Journ. As. Soc. Bengal II 10 (1914) 12.

British North Borneo, Sibyguey, near Sandakan, *Ramos* 1625. In thickets and forests along streams at low altitudes. Previously known only from the Philippines, Laguna and Sorsogon Provinces, Luzon, Mindoro, and Catanduanes Island.

MARANTACEAE.

Phrynium Willdenow.*Phrynium inflatum* sp. nov.

Species *P. capitato* similis, differt bracteis exterioribus multo majoribus, oblongo-ovatis, acuminatis, 7 vel 8 cm. longis, extus fulvo-villosis, vaginis supra capitulis valde inflatis, villosis; floribus longioribus usque ad 2.5 cm. longis, sepalis 1.5 cm. longis, tenuiter acuminatis, fructibus ovoideis-trigonis, leviter villosis, in valvis tribus fissis, haud castaneis.

A species with the habit of *Phrynium capitatum*, exceeding 1 m. in height. Petioles glabrous except above the inflorescences. Leaves oblong, up to 50 cm. long and 10 cm. wide, firmly chartaceous, glabrous on both surfaces, the petioles produced about 14 cm. above the inflorescences, the lower half conspicuously inflated and fulvous-villous, about 3 cm. wide (spread) below. Heads in fruit about 5 cm. in diameter. Lower bract subtending the head, oblong-ovate, acuminate, coriaceous, long fulvous-villous outside, the others ovate acuminate, 3 to 3.5 cm. long, ultimately fibrillose. Pairs of flowers 2, the pedicels stout, about 1 mm. long, the bracteoles narrowly lanceolate, caudate-acuminate, 2.5 cm. long, 3 mm. wide. Ovaries 3-celled, densely fulvous-ciliate, the hairs 2 to 3 mm. long. Calyx lobes narrowly lanceolate, caudate-acuminate, 15 mm. long, 2 to 2.5 mm. wide. Corolla-tube slender, glabrous, 12 to 15 mm. long, the segments up to 9 mm. long. Fruit ovoid-trigonous, about 12 mm. long and wide, more or less fulvous-villous, 3-celled, 3-seeded, opening by 3 longitudinal valves, the pericarp indurated.

British North Borneo, Batu Lima near Sandakan, *Ramos 1488*. On forested slopes at low altitudes. A species strongly characterized by its unusually large first bract, its petioles being inflated above the insertion of the inflorescence, and its strongly trigonous, 3-celled, 3-valved, dehiscent, somewhat villous fruits. The flowers are much longer than in *Phrynium capitatum* Willd., attaining a length of at least 2.5 cm. Only remnants of very old flowers are available.

Phacelophrynium K. Schumann.

Phacelophrynium bracteosum K. Schum. in Engl. Pflanzenreich 11 (1902) 123.

British North Borneo, near Sandakan, *Agama 1033*: Sarawak, Baram District, Lio Matu, *Native Collector 2783 Bur. Sci., Moulton 6706*. Otherwise known only from the Philippines where it is widely distributed in southern Luzon, Samar, Leyte, Biliran, and Mindanao.

MORACEAE.

Artocarpus Forster.*Artocarpus clementis* sp. nov.

Arbor magna, subglabra, ramis 5 vel 6 mm. diametro, obscure puberulis; foliis coriaceis, glabris, nitidis, oblongo-ovatis vel ob-

longo-ovatis vel oblongo-lanceolatis, 12 ad 22 cm. longis, 4.5 ad 9 cm. latis, aequilateralibus, basi abrupte angustatis, acutis, apice acuminatis, nervis utrinque circiter 12 perspicuis; fructibus subglobois, circiter 5.5 cm. diametro, anthocarpiis numerosis, leviter productis, ovoideis, obtusis, circiter 1 mm. longis, uniformiter ferrugineo-furfuraceo-hirsutis; seminibus numerosis, circiter 13 mm. longis, perianthii segmentis leviter hirsutis. Species *A. rigidae* affinis, sed foliis glabris et anthocarpiis brevissime productis.

A large tree glabrous except the very obscurely puberulent branchlets and the furfuraceous-hirsute tips of the anthocarps; branches brown, rugose, terete, 5 to 6 mm. in diameter, the younger branchlets frequently only 3 mm. in diameter. Leaves equilateral, entire, coriaceous, glabrous, shining, oblong-ovate to oblong-lanceolate, 12 to 22 cm. long, 4.5 to 9 cm. wide, the base rather abruptly narrowed, acute, usually gradually narrowed upward to the short, blunt-acuminate apex, brownish or brownish-olivaceous when dry, smooth, shining; lateral nerves about 12 on each side of the midrib, not impressed on the upper surface, very prominent on the lower surface, anastomosing near the margins, the primary reticulations distinct; petioles about 3 cm. long, 2.5 to 3 mm. in diameter, glabrous. Mature or nearly mature fruits subglobose, the base often somewhat cordate, about 5.5 cm. in diameter, their peduncles stout, 3 to 4 cm. in length, the tips of the anthocarps very numerous, ovoid, blunt, about 1 mm. long, the outer surface of the fruit uniformly furfuraceous-hirsute, the indumentum ferruginous. Seeds rather numerous, about 13 mm. long, the accrescent perianth segments more or less hirsute.

British North Borneo, Gurulau Spur, Mount Kinabalu, *Mrs. Clemens* 10770, November 27, 1915. In forests along trails. This species belongs in the group with, and is manifestly allied to *Artocarpus rigida* Blume, from which it is readily distinguished by its entirely glabrous leaves and by the very short tips of its anthocarps.

Artocarpus borneensis sp. nov.

Arbor circiter 10 m. alta, ramis teretibus, circiter 5 mm. diametro, ramulis leviter pubescentibus vel furfuraceis; foliis subcoriaceis, glabris, nitidis, ellipticis vel oblongo-ellipticis, integris, aequilateralibus, 9 ad 14 cm. longis, apice abrupte acuminatis, basi rotundatis vel late acutis, nervis utrinque 10 vel 12, perspicuis; inflorescentiis axillaribus, solitariis, ♂ oblongo-obovoideis, 12 mm. longis, brevissime pedunculatis, bracteolis peltatis, dense imbricatis, cupreis; fructibus subglobois, 4 cm. diametro, laevibus, dense cupreo-furfuraceo-lepidotis, anthocarpiis haud productis; seminibus paucis, 10 ad 12 mm. longis.

A tree about 10 m. high, mature fruits densely and uniformly furfuraceous-lepidote, the indumentum cupreous. Branches terete, glabrous, about 5 mm. in diameter, the very young branchlets obscurely pubescent or slightly furfuraceous. Leaves subcoriaceous, glabrous, entire, elliptic to oblong-elliptic, 9 to 14 cm. long, 4 to 8

cm. wide, shining, the upper surface olivaceous, the lower surface brownish, apex rather abruptly acuminate, the acumen acute or obtuse, rather stout, about 1 mm. long, base rounded to broadly acute, equilateral or nearly so; lateral nerves 10 to 12 on each side of the midrib, very prominent on the lower surface, spreading, curved, arched-anastomosing close to the margins, the reticulations rather close, distinct on both surfaces; petioles 8 to 10 mm. long. Staminate inflorescences oblong-obovoid to pyriform, axillary, solitary, yellow when fresh, brown when dry, about 12 mm. long, their peduncles stout, ferruginous-puberulent, 1 to 2 mm. in length. Flowers very numerous, crowded, 1 mm. long or less, the anthers only slightly exserted; bracteoles peltate, ciliate, densely imbricate, in the young inflorescences quite concealing the flowers, cupreous. Mature fruit red when fresh, cupreous or castaneous when dry, densely and uniformly furfuraceous-lepidote, smooth, the tips of the anthocarps not evident, subglobose or depressed-globose, about 4 cm. in diameter. Seeds very few, sometimes only 3 or 4 maturing in one fruit, ovoid, 10 to 12 mm. in length, the accrescent perianth segments fleshy, glabrous.

British North Borneo, Batu Lima near Sandakan, *Ramos* 1592 (type), 1749, November, 1920, the former with mature or nearly mature fruits, the latter with staminate inflorescences. In damp forests at low altitudes. A species belonging in the group with *Artocarpus gomeziana* Wall. and manifestly closely allied to that species, but at once distinguished by its densely and uniformly furfuraceous-lepidote fruits, the indumentum being cupreous or castaneous.

***Artocarpus peltata* sp. nov.**

Arbor circiter 25 m. alta, partibus junioribus dense ferrugineo-pubescentibus; foliis chartaceis, oblongis vel oblongo-lanceolatis, 20-28 cm. longis, aequilateralibus, integris vel junioribus minute denticulatis, basi rotundatis, distincte peltatis, apice acuminatis, subtus molliter pubescentibus, nervis utrinque circiter 18, perspicuis, stipulis oblongo-ovatis, inaequilateralibus, pubescentibus, 12 mm. longis; inflorescentiis ♀ axillaribus, globosis, pedunculatis; fructibus junioribus 2 cm. diametro, globosis, laevibus, cinereo-puberulis, anthocarpiis haud productis, areolatis, areolis haud 0.5 mm. diametro; seminibus paucis.

A tree up to 25 m. high, the younger parts densely and uniformly ferrugineous-pubescent with short hairs. Branches subterete, the ultimate ones 4 to 5 mm. in diameter, very densely pubescent. Leaves chartaceous, oblong to oblong-oblancoate, 20 to 28 cm. long, 6 to 10 cm. wide, entire, when very young pubescent on both surfaces, in age glabrous on the upper surface except for the pubescent midrib, the lower surface softly pubescent with short hairs, the base rounded, equilateral, narrowly peltate, the petiole inserted 2 to 5 mm. from the leaf margins, the apex distinctly acuminate and usually shortly apiculate, the margins of very young

leaves slightly denticulate; lateral nerves about 18 on each side of the midrib, spreading, somewhat curved, prominent on the lower surface, the reticulations rather distinct; petioles 1 to 1.5 cm. long, densely pubescent; stipules oblong-ovate, inequilateral, pubescent, acuminate, about 12 mm. long. Pistillate inflorescences axillary, globose, 2 cm. or more in diameter (immature), their peduncles densely pubescent, somewhat thickened upward, about 4 cm. long, the surface grayish-puberulent, the position of the numerous anthocarps indicated by small areolae less than 0.5 mm. in diameter, the tips of the anthocarps not projecting. Seeds apparently few in each syncarp.

British North Borneo, Sandakan, *Villamil 168*, March, 1916. On open slopes at an altitude of about 80 m. This species manifestly belongs in the group with *Artocarpus lakoocha* Roxb., but is readily distinguished from it and from other species in the same alliance by its peltate leaves.

URTICACEAE.

Laportea Gaudichaud.

Laportea oblanceolata sp. nov.

Arbor circiter 8 m. alta; foliis oblanceolatis, subcoriaceis, usque ad 35 cm. longis, integris, tenuiter acuminatis, deorsum attenuato-angulatis, subsessilibus vel breviter petiolatis, nervis utrinque circiter 12, perspicuis; infructescentiis longe pedunculatis, folia subaequantibus, floribus flabellatim dispositis, receptaculis accrescentibus.

A tree about 8 m. high, somewhat pubescent, the older parts nearly glabrous except for the short persisting stinging hairs. Ultimate branches rather stout, about 8 mm. in diameter when dry, rugose, the leaf scars conspicuous. Leaves oblanceolate, subcoriaceous, entire, olivaceous, 25 to 35 cm. long, 6 to 12 cm. wide, rather slenderly acuminate, gradually narrowed below to the attenuate-decurrent base, white-punctate on both surfaces, the upper surface glabrous, the lower with short stiff hairs; lateral nerves about 12 on each side of the midrib, prominent; petiole 1 cm. long or less, the lamina often decurrent to the very base; stipules ovate, up to 1.5 cm. long. Young ♀ inflorescences up to 17 cm. long, with numerous short, stiff, white hairs, in fruit long peduncled and equalling the leaves in length. Female flowers sessile in a single row on or near the margins of the flabellate receptacle, the receptacle accrescent, lobed, and in fruit up to 1 cm. in diameter. Achenes glabrous, compressed, ovate, more or less inequilateral, about 4 mm. long. Styles somewhat pubescent, about 3 mm. long.

British North Borneo, Batu Lima, near Sandakan, *Agama 1026* (type), *Ramos 1247*, November, 1920; Balaran River, Labuk Bay, *Wood 676*, March, 1919. On steep slopes and in open places at low altitudes. A species probably as close to *Laportea stimulans*

Miq. as to any other described form, but easily distinguished by its sessile or subsessile leaves.

PROTEACEAE.

Helicia Loureiro.

Helicia excelsa Blume in Ann. Sci. Nat. II 1 (1834) 219.

British North Borneo, Batu Lima, near Sandakan. *Ramos* 1653. In damp forests along small streams at low altitudes. Chittagong, Burma, Malay Peninsula, Singapore, and Sumatra.

LORANTHACEAE.

Viscum Linnaeus.

Viscum angulatum Heyne ex DC. Prodr. 4 (1830) 283.

British North Borneo, Sandakan, *Ramos* 1228: Sarawak, near Kuching, *Native collector* 161 (*Bur. Sci.*), March, 1911. India to southern China, through Malaya to tropical Australia.

OLACACEAE.

Fissipetalum genus novum.

Flores regulares, hermaphroditi. Calyx 5-partitus, sepalis imbricatis. Petala 5, infra coalita, valvata, apice lobata, lobis binis, subdivaricatis, in alabastro inflexis. Stamina 5, petalis alterna, filamentis brevibus, glabris, corollae tubo adnatis; antherae erectae, oblongo-ovatae, 2-loculares, connectivo incrassato, minute apiculato. Discus 0 vel obscurus. Ovarium liberum, globosum, 1-loculare; stylus 0; stigma conico-capitatum, sulcatum; ovula 3 vel 4, erecta. Fructus parvus, 1-locularis, 1-spermus.—Frutex erectus, subglaber, foliis alternis, integris, floribus axillaribus, breviter pedicellatis, solitariis vel depauperato-fasciculatis.

***Fissipetalum borneense* sp. nov.**

Frutex subglaber 2 vel 3 m. altus, ramis ramulisque teretibus, glabris, vel ramulis obscure pubescentibus; foliis oblongis vel oblongo-ellipticis, chartaceis vel subcoriaceis, 12 ad 18 cm. longis, in siccitate brunneo-olivaceis, minutissime verruculosis, nitidis, utrinque subaequaliter angustatis, basi acutis, apice breviter obtuseque acuminatis, nervis utrinque circiter 8, distinctis, reticulis obsolete vel subobsolete; floribus circiter 7 mm. longis, sepalis pubescentibus, orbicularibus, petalis extus pubescentibus in dimidio parte, inferiore, lobis glabris; fructibus oblongo-ellipsoideis, glabris, 8 ad 9 mm. longis.

An erect, nearly glabrous shrub 2 to 3 m. high, the branches and branchlets terete, reddish-brown, glabrous or the younger branchlets obscurely pubescent. Leaves oblong to oblong-elliptic, 12 to 18 cm. long, 4.5 to 7 cm. wide, chartaceous to subcoriaceous, entire, subequally narrowed to the acute base and the shortly obtuse-acuminate apex, brownish-olivaceous, somewhat shining and minutely verruculose on both surfaces when dry, the upper surface glabrous, the lower surface glabrous or slightly pubescent; lateral nerves about 8 on each side of the midrib, distinct, ascending at an angle of about 45° , somewhat curved, obscurely and laxly anastomosing, the reticulations obsolete or nearly so; petioles 5 to 10 mm. long, deeply channelled on the upper surface. Flowers white, axillary, solitary or somewhat fascicled, their pedicels 3 to 4 mm. long, slightly pubescent, 2-bracteolate, the bracteoles ovate, pubescent, about 1.2 mm. long. Sepals 5, free, imbricate, somewhat pubescent, orbicular to orbicular-obovate, rounded, about 2.2 mm. in diameter, minutely punctulate. Petals 5, united into a cylindric tube in the lower 2 mm., externally ferruginous-pubescent in the lower half, or on those parts forming the limb which are exposed in bud, those portions of the petals valvate, oblong, about 3 mm. long, each petal cleft into 2, oblong, glabrous lobes, the lobes truncate-rounded, inflexed in bud, 3 mm. long, 1.2 mm. wide, spreading at an angle of about 45° in anthesis. Stamens 5, alternate with the petals, inserted near the apex of the corolla-tube, their filaments 1 mm. long; anthers ovoid, somewhat acuminate and minutely apiculate, basifixed, 2-celled, about 1.3 mm. long, opening by lateral slits, the connectives stout, broad, narrowed upward. Disk 0 or very obscure. Ovary superior, globose, glabrous, 1-celled with 3 or 4 erect basal ovules; stigma sessile, broadly conical, somewhat sulcate, about 1 mm. in diameter. Fruit (not quite mature) oblong-ellipsoid, glabrous, 8 to 9 mm. long, 1-celled, 1-seeded, the pericarp rather thin, the seed somewhat fleshy, the calyx lobes persistent but not accrescent.

British North Borneo, Batu Lima, near Sandakan, and at Marutai, *Ramos* 1454 (type), *Wood* 453, flowering in October and with immature fruits in June. Mr. Wood's specimen is labelled as 'coming from back of the mangrove swamps,' while *Ramos* notes it occurs in forests and in open places at low altitudes. This proposed new genus presents certain characters intermediate between *Icacinaceae* and *Olacaceae* and might with almost equal propriety be placed in either family. It is at once distinguished from all hitherto described genera in these families by its conspicuously cleft petals, the relatively large lobes being inflexed in bud and spreading at an angle of about 45° in flower. In its stamens being alternate with the petals it differs from most representatives of the *Olacaceae*, while in its erect basal ovules it differs from most or all of the *Icacinaceae*. I have placed it tentatively in the *Olacaceae*.

MENISPERMACEAE.

Jupia genus novum.

Sepala 3, ovata, valvata, concava, circiter $\frac{1}{2}$ connata. Petala 5, subcarnosa, valvata, libera, oblongo-lanceolata. Stamina 5, libera; filamenta brevissima; antherae subpeltatae, ellipticae, 1-locellatae, longitudinaliter dehiscentes. Flores ♀ et fructus ignotis.—Frutex cirrhosus, scandens, glaber vel subglaber. Folia integra, elliptica, basi 5-nervia; petiolus in laminae margine insertus. Paniculae amplissimae, pendulae, e trunco vel ramis vetustis ortae.

Jupia borneensis sp. nov.

Frutex scandens, cirrhosus, inflorescentiis eceptis glaber; foliis ellipticis, chartaceis, integris, subolivaceis, nitidis, 10 ad 15 cm. longis, basi rotundatis, 5-nerviis, apice breviter acuminatis apiculatisque, nervis supra basin utrinque circiter 3; inflorescentiis caulini; pendulis, paniculatis, usque ad 60 cm. longis; floribus ♂ numerosis, breviter pedicellatis, 6 ad 7 mm. diametro, glabris, sepalis 3, ovatis, 2 mm. longis, usque ad $\frac{1}{2}$ connatis, concavis; petalis 5, oblongo-lanceolatis, leviter acuminatis, 3 ad 3.5 mm. longis, liberis; staminibus 5, liberis, filamentis brevissimis, antheris peltatim affixis, ellipsoideis, 1-locellatis, longitudinaliter dehiscentibus.

A scandent, dioecious, tendril-bearing, woody vine, glabrous except the very slightly and obscurely pubescent inflorescences, the stems terete, about 1 cm. diameter, somewhat wrinkled when dry and with scattered lenticels, the branchlets brownish, about 3 mm. in diameter. Leaves elliptic, chartaceous, entire, subolivaceous, somewhat shining, the upper surface minutely puncticulate, 10 to 15 cm. long, 5 to 10 cm. wide, the base rounded, 5-nerved, the inner pair of nerves extending beyond the middle of the leaf, the apex very shortly and abruptly acuminate, the acumen apiculate by the slightly excurrent midrib; lateral nerves above the basal one about 3 on each side of the midrib, ascending at an angle of about 45°, slender, distinct, the reticulations rather distinct; petioles 2.5 to 3 cm. long; tendrils simple, usually or always attached with the petioles, rather rigid, up to 9 cm. long. Panicles from the stems and branches below the leaves, pendulous, up to 60 cm. in length, the branches rather few, scattered, spreading, up to 17 cm. in length. Flowers racemosely arranged on the primary branches, solitary or in pairs, their pedicels about 3 mm. long. Male flowers yellow or yellowish-white, 6 to 7 mm. in diameter. Sepals 3, glabrous, ovate, valvate, 2 mm. long, united for about the lower $\frac{1}{2}$, concave, acute or obscurely apiculate, the buds globose and without reduced sepals or bracteoles. Petals 5, oblong-lanceolate, somewhat acuminate, valvate, glabrous, free, 3 to 3.5 mm. long, 2 mm. wide, somewhat thickened or fleshy. Stamens 5, free, alternate with the petals, the filaments very short, not exceeding 0.2 mm. in length; anthers peltately affixed, ellipsoid, 0.4 mm. long, 1-celled, dehiscing longitudinally by a single valve on the upper surface. Female flowers and fruits not known.

British North Borneo, Batu Lima, near Sandakan, *Ramos* 1593 (type), 1578, November, 1920. In damp forests along streams at low altitudes. This proposed new genus and species distinctly resembles *Haematocarpus*, but does not appear to be closely allied to that genus and may not belong in the tribe *Trichlisieae*. In the absence of female flowers and fruits it is difficult to decide its proper place in the family. Among the known genera of the family the present genus differs in its 3 sepals which are somewhat united below, in its 5 petals and 5 stamens,—in most genera the sepals, petals and stamens being in three's or in multiples of three's. This genus is dedicated to Mr. William O. Jupp, for long a resident of Sandakan, in appreciation of his interest in forwarding the field work in botany carried on by the Bureau of Science in co-operation with the Forestry Service of the Government of British North Borneo.

***Tinospora* Miers.**

***Tinospora glandulosa* sp. nov.**

Frutex scandens, glaber; foliis oblongis, subcoriaceis, nitidis, basi rotundatis vel obtusis, usque ad 12 cm. longis, nervis utrinque 7 vel 8, distinctis, subtus in axillis perspicue glandulosis; infructescentiis e nodis defoliatis, solitariis, anguste paniculatis, pedunculatis, usque ad 24 cm. longis, ramis primariis patulis inferioribus circiter 3 cm. longis; fructibus junioribus subellipsoideis, 5 mm. longis.

A glabrous vine, the older branches apparently fleshy when fresh, when dry dark reddish-brown and smooth except for the scattered conspicuous lenticels, the younger branches slender, grayish brown, lenticellate. Leaves shining, subcoriaceous, pale and of about the same color on both surfaces when dry, oblong, 9 to 12 cm. long, 3.5 to 5.5 cm. wide, slenderly acute-acuminate, base rounded or obtuse, 3-nerved, the lateral nerves extending from one-fourth to one-third the length of the lamina, those above the basal pair 6 or 7 on each side of the midrib, slender, distinct, the reticulations distinct on both surfaces, the axils of the primary nerves beneath with rather conspicuous glands (domatia); petioles slender, 3 to 4 cm. long. Infructescences lateral, solitary from leafless nodes, slender, narrowly paniculate, peduncled, up to 24 cm. long, the branches spreading, the lower ones 3 m. long, the upper shorter. Immature fruits about 5 mm. long, subellipsoid, narrowed at both ends, inequilateral, 2 or 3 developing from each flower.

British North Borneo, Sandakan, *Wood* 939 October, 12, 1920. In bamboo forests at low altitudes. In vegetative characters and in general appearance this somewhat resembles the Philippine *Tinospora reticulata* Miers. It is not, however, very closely allied to that species, being very readily distinguished from this and its congeners by its differently shaped leaves and its more numerous lateral nerves.

Cyclea Arnott.*Cyclea caudata* sp. nov.

Frutex scandens, inflorescentiis leviter pubescentibus exceptis glaber: foliis chartaceis vel subcoriaceis, lanceolatis vel oblongo-lanceolatis, 7 ad 11 cm. longis, basi late rotundatis, interdum angustissime peltatis, apice caudato-acuminatis apiculatisque, nervis paucis, reticulis utrinque distinctis; paniculis ♂ axillaribus, angustis, 10 ad 18 cm. longis; calycibus cupulatis, 1 mm. longis, breviter 4-lobatis; petalis omnibus connatis; antheris 4, capitulis 0.3 mm. diametro.

A slender vine entirely glabrous except the sparingly pubescent inflorescences, the stems terete, rather smooth, 2 to 3 mm. in diameter. Leaves chartaceous to subcoriaceous, lanceolate to oblong-lanceolate, 7 to 11 cm. long, 2 to 4 cm. wide, the base broadly rounded, often truncate, sometimes narrowly peltate, the midrib occasionally inserted 1 to 2 mm. from the margin, narrowed upward to the slenderly caudate-acuminate and apiculate apex, both surfaces olivaceous and somewhat shining when dry; basal nerves usually 2 pairs, the lateral ones above the base 2 or 3 on each side of the midrib, rather prominent, the primary reticulations lax, distinct on both surfaces; petioles 1.5 to 2.5 cm. long. Staminate inflorescences axillary, solitary, narrowly paniculate, 10 to 18 cm. long, sparingly pubescent, the primary branches few, distant, spreading, 1 to 1.5 cm. long. Calyx cup-shaped, about 1 mm. long, somewhat pubescent, shallowly 4-lobed. Corolla glabrous, cup-shaped, truncate, 0.5 mm. in diameter, the petals wholly united. Androphore glabrous, 0.8 mm. long, the anthers 4, forming a head about 0.3 mm. in diameter, transversely dehiscent.

Sarawak, Upper Baram, Selungo, *Major J. C. Moulton 87* (= 2835 *Native Collector Bur. Sci.*), November 26, 1914. A species allied to *Cyclea elegans* King, of the Malay Peninsula, differing in its leaves being caudate-acuminate, the bases being rounded and not at all peltate or at most very narrowly peltate; in its inflorescences exceeding the leaves in length; and in its petals being wholly united into a truncate cup.

MAGNOLIACEAE.

Talauma Jussieu.*Talauma megalophylla* sp. nov.

Arbor, partibus junioribus adpresse sordide brunneo-villosis, ramulis 1.5 cm. diametro; foliis permagnis, oblanceolatis, coriaceis, 45 ad 90 cm. longis, 12 ad 25 cm. latis, coriaceis, nitidis, tenuiter acuminatis, basi cuneatis, supra ad costam villosis, subtus leviter pilosis, nervis utrinque circiter 35, valde perspicuis, reticulis laxis; floribus 10 cm. longis, sepalis 3, crasse coriaceis, oblongis vel oblongo-

ellipticis, 8 ad 9 cm. longis, extus dense villosis; petalis carnosis, glabris, quam sepalis paullo longioribus, in siccitate rugosis; carpellis numerosissimis, villosis; fructibus oblongo-ovoideis vel ellipsoideis, circiter 10 cm. longis, rhachibus 2.5 cm. diametro, carpellis immaturis lanceolatis, 4 cm. longis, lignosis, brunneis, partibus superioribus liberis, 1.5 ad 2 cm. longis.

A tree about 8 m. high, the ultimate branchlets terete, about 1.5 cm. in diameter, pale-brown, densely appressed-villous with soft, dirty-brown hairs. Leaves in general oblanceolate, 45 to 90 cm. long, 12 to 25 cm. wide, coriaceous, pale on both surfaces when dry, shining, the apex rather slenderly acuminate, narrowed below to the cuneate base, the upper surface usually conspicuously villous along the midrib, ultimately glabrous, the lower surface sparingly villous, the hairs pale, appressed, from somewhat enlarged bases; lateral nerves about 35 on each side of the midrib, very prominent on the lower surface, spreading, somewhat curved, arched-anastomosing, reticulations lax; petioles stout, much thickened below, 4 to 5 cm. long, densely villous. Flowers white, slightly fragrant, about 10 cm. long, their peduncles densely villous, about 1 cm. in diameter. Sepals 3, very thickly coriaceous, oblong-ovate to oblong or oblong-elliptic, obtuse, 8 to 9 cm. long, about 4 cm. wide, densely appressed-villous outside, the indumentum somewhat deciduous. Petals apparently very fleshy, dark-brown and rugose when dry, up to 10 cm. long. Carpels very numerous, in flower lanceolate, about 4 cm. long (not mature), woody, dark-brown, the fruit oblong-ovoid or ellipsoid, up to 10 cm. long, the rachis of the mature infructescences up to 2.5 cm. in diameter. Carpels lanceolate, about 4 cm. long (not mature), dark-brown, the indumentum more or less persistent, the free portions 1.5 to 2 cm. in length.

British North Borneo, Batu Lima, near Sandakan, *Ramos* 1509, October, 1920. In damp forests at low altitudes. A species remarkable for its very large leaves, in this character somewhat approaching *Talauma gigantifolia* Miq. of Sumatra which is also recorded from Borneo. The present species, however, differs from Miquel's in very numerous characters, especially in its much longer, differently shaped, smooth leaves, the reticulations being lax and not nearly as prominent as in *T. gigantifolia*.

***Talauma borneensis* sp. nov.**

Arbor circiter 7 m. alta, pedunculis sepalisque adpresse villosis exceptis glabra; ramis tenuibus, laevibus, ramulis 3 mm. diametro; foliis chartaceis, oblongo-ellipticis vel oblongis, 12 ad 28 cm. longis, perspicue acuminatis, basi acutis, utrinque brunneo-olivaceis, nitidisque, nervis utrinque circiter 15, cum reticulis utrinque conspicuis; floribus circiter 5 cm. longis, pedunculo adpresse villosis, sepalis deciduis, extus adpresse villosis, petalis circiter 8, oblongis vel oblongo-obovatis, circiter 5 cm. longis et 2 cm. latis, 3 interioribus valde incrassatis; carpellis circiter 25, lineari-lanceolatis, glabris;

fructibus oblongis, circiter 6 cm. longis, 2.5 cm. diametro, atrobrunneis, glabris, carpellis connatis, verruculosi, circiter 2.5 cm. longis.

A tree about 7 m. high, glabrous except the densely appressed-pubescent apical portions of the peduncles and the appressed-villous sepals. Branches slender, brown, rather smooth, the ultimate ones about 3 mm. in diameter. Leaves chartaceous, oblong-elliptic to oblong, 12 to 28 cm. long, 4.5 to 8 cm. wide, conspicuously acuminate, the base acute, brownish-olivaceous and shining on both surfaces; lateral nerves about 15 on each side of the midrib, curved, distinct on both surfaces as are the rather close reticulations; petioles 1 to 2 cm. long, thickened in the lower one-half. Peduncles in flower about 5 cm. long, densely appressed-pubescent with pale hairs, the indumentum deciduous on the older peduncles. Flowers white, about 5 cm. long, the sepals apparently 2, deciduous, rather densely appressed-villous with pale hairs on the back. Petals at least 8, oblong to oblong-obovate, glabrous, about 5 cm. long and 2 cm. wide, apparently somewhat fleshy, brown when dry, rounded, the inner three much thicker than the outer ones. Anthers linear-lanceolate, 12 to 13 mm. long, acuminate. Carpels about 25, linear-lanceolate, glabrous except near their apices where they are sparingly ciliate, the free portions in flower 8 to 10 mm. long. Fruit oblong, about 6 cm. long, 2.5 cm. wide, dark-brown when dry, the individual carpels cohering except at their very apices, verrucosae, glabrous, the tips spreading, stout, 2 to 3 mm. long.

British North Borneo, Sibuguey, near Sandakan, *Ramos 1533*, November, 1920. In damp forests at low altitudes. A species belonging in the group with *Talauma mutabilis* Blume, and very closely approximating in vegetative characters to *T. kunstleri* King, differing from both species in its much larger flowers and fruits.

ANONACEAE.

Artabotrys R. Brown.

Artabotrys clementis sp. nov.

Frutex scandens, glaber (floribus ignotis), ramis ramulisque teretibus in siccitate atro-purpureo-brunneis, leviter rugosis; foliis chartaceis, nitidis, oblongis vel anguste oblongo-obovatis, 10-20 cm. longis, perspicue acuminatis, basi obtusis, nervis utrinque circiter 12, subtus perspicuis, reticulis utrinque subdensis, perspicuis; fructibus longe pedicellatis, ellipsoideis vel oblongo-ellipsoideis, in siccitate atro-brunneis, usque ad 4 cm. longis et 2.3 cm. diametro, glabris, seminibus usque ad 8, 2-seriatis.

A scandent vine entirely glabrous (flowers unknown), the branches and branchlets slender, terete, dark-brown, somewhat wrinkled when dry, the ultimate branchlets about 1.5 mm. in diameter. Leaves chartaceous, oblong to narrowly oblong-obovate, 10 to 20 cm. long, 1 to 7 cm. wide, the apex rather slenderly and

sharply acuminate, base obtuse, the upper surface pale or brownish when dry, the lower pale-brownish, both surfaces shining; lateral nerves about 12 on each side of the midrib, distinct on the lower surface, somewhat curved, obscurely anastomosing, the reticulations rather close and distinct on both surfaces; petioles 3 to 7 mm. long. Peduncles of the infructescences 1 to 2 cm. long, rather stout, the torus woody, up to 1.5 cm. in diameter; fruits 5 to 20, ellipsoid to oblong-ellipsoid, dark-brown when dry, glabrous, rounded at both ends, up to 4 cm. long, 2.5 cm. in diameter; seeds 2-seriate, up to 8 in each fruit, or in those cases where the fruit is imperfectly developed and globose, only 1.

British North Borneo, Batu Lima and Sibuga, near Sandakan, *Ramces* 1667 (type), 1480, October and November, 1920; Jesselton, *Mrs. Clemens* 9670, December, 1915. In thickets along trails and in forests at low altitudes. A species well characterized within the genus by being, so far as known, entirely glabrous; it is probable that the flowers may be more or less pubescent. It is manifestly allied to *Uvaria lurida* Hook. f. & Th., but the seeds are 2-seriate, not 1-seriate as in the latter species.

Artabotrys borneensis sp. nov.

Frutex scandens, inflorescentiis exceptis glaber vel subglaber; foliis chartaceis, ellipticis vel elliptico-oblongis, pallide olivaceis, nitidis, 10-13 cm. longis; utrinque subaequaliter angustatis, basi acutis, apice perspicue obtuseque acuminatis; nervis utrinque circiter 8, plerumque patulis, perspicuis; inflorescentiis oppositifoliis, plerumque 1-floris; pedunculis curvatis, compressis, 1-1.5 cm. longis; floribus 4 cm. longis; sepalis ovatis, acuminatis, leviter pubescentibus vel vetustioribus glabris, exterioribus oblongo-ellipticis, 1.5 cm. latis, obtusis; carpellis circiter 12, glabris, stylis crasse clavatis, obtusis; disco dense ferrugineo-hirsuto.

A scandent shrub glabrous or nearly so except for the inflorescences. Branches and branchlets slender, terete, black when dry, the ultimate branchlets about 1 mm. in diameter, more or less ferruginous-pubescent at their apices. Leaves chartaceous, elliptic to elliptic-oblong, pale-olivaceous, shining, 10 to 13 cm. long, 4 to 6 cm. wide, subequally narrowed to the acute base and to the conspicuously blunt-acuminate apex, the acumen usually about 1 cm. long; lateral nerves about 8 on each side of the midrib, mostly spreading, arched anastomosing, rather prominent, the reticulations lax and distinct on both surfaces; 4 to 5 mm. long. Inflorescences on the ultimate branchlets, leaf-opposed, usually only 1-flowered, the peduncles stout, strongly curved, compressed, 1 to 1.5 cm. long, sparingly appressed-ferruginous-pubescent. Flowers 4 to 4.5 cm. long, their pedicels stout, thickened upward, glabrous or nearly so, about 8 mm. long. Sepals coriaceous, ovate, prominently acuminate, black when dry, glabrous or very slightly pubescent, about 6 mm. long, 5 mm. wide. Petals thickly coriaceous, all broad, flat, sparingly pubescent on both surfaces or ultimately glabrous or

nearly so; outer three petals oblong-ovate to ovate, acute or obtuse, 4 to 4.5 cm. long, 2 to 2.3 cm. wide, the concave basal part rather conspicuously appressed-ferruginous-pubescent outside, 5 to 7 mm. long and wide; inner petals oblong-elliptic, 3.5 to 4 cm. wide, somewhat narrowed below to the concave basal part which is 6 to 7 mm. long, 3 mm. wide. Anthers numerous, 2.5 mm. long, the connectives truncate-rounded. Carpels about 12, glabrous, narrowly oblong, narrowed upward, 2 mm. long; style thicker than the ovary, equalling it in length, thickly club-shaped, the apex obtuse. Disk densely ferruginous-hirsute.

British North Borneo, Batu Lima. *Bur. Sci.* 1366 Ramos, October, 1920. In damp forests at low altitudes. The striking characters of this species are its large, broad petals and its usually 1-flowered inflorescences.

Artabotrys trichopetalus sp. nov.

Frutex scandens, ramis rugosis, glabris, ramulis leviter pubescentibus; foliis coriaceis, oblongo-ellipticis, 10-17 cm. longis, apice obtuse acuminatis, basi plerumque rotundatis, supra glabris, castaneis, subtus brunneis, leviter longe ciliatis, nervis utrinque 9 vel 10, subtus perspicuis; inflorescentiis lateralibus, paucifloris, pedunculis crassis, teretibus, 1.5 cm. longis, subglabris; floribus circiter 3 cm. longis, pedunculis 2-bracteatis, bracteis elliptico-ovatis, 1 cm. longis, extus dense ciliatis, intus glabris; sepalis petalisque dense ciliatis pubescentibusque; sepalis 12 mm. longis, acuminatis; petalis exterioribus planis, 10 mm. latis, oblongo-ellipticis, interioribus lanceolatis, 5 vel 6 mm. latis, crassissimis; antheris 3 mm. longis, connectivo crassissimo, obtuso, 1-1.5 mm. longo; carpellis circiter 25, glabris.

A woody vine, the branches grayish-brown, glabrous, 3 to 4 mm. in diameter, rugose when dry. Leaves coriaceous oblong-elliptic, 10 to 17 cm. long, 4 to 7 cm. wide, the upper surface castaneous when dry, glabrous, somewhat shining, the lower surface brown, more or less ciliate with long, rather pale, subappressed hairs, the individual hairs often 2 to 3 mm. in length and more numerous on the midrib and nerves, otherwise widely scattered; apex blunt-acuminate, base usually rounded sometimes acute; lateral nerves 9 or 10 on each side of the midrib; somewhat ascending arched-anastomosing, prominent on the lower surface, the reticulations lax, rather distinct; petioles 5 to 9 mm. long, when young more or less pubescent, ultimately glabrous. Inflorescences lateral, from the branches among or below the leaves, few-flowered, the peduncles very stout, strongly curved and terete, up to 1.5 cm. long, glabrous or nearly so, rugose. Flowers greenish, about 3 cm. long, their pedicels up to 1.5 cm. long, very densely ciliate with long ferruginous hairs, each supplied with 2 conspicuous, elliptic-ovate, coriaceous, somewhat acuminate bracts about 1 cm. long which are densely ciliate and pubescent outside, glabrous inside. Sepals coriaceous, ovate-lanceolate, acuminate, about 12 mm. 6 to 17 mm. wide,

densely appressed-ciliate and pubescent outside, inside appressed-pubescent except in the lower part which is glabrous. Petals thickly coriaceous, all densely pubescent on both surfaces and supplied with numerous, subappressed, elongated, ciliate hairs, the indumentum pale-brownish or grayish; the outer three petals about 3 cm. long, 12 mm. wide, the basal concave part broadly ovate, 6 to 8 mm. wide and long, the flattened portions oblong-elliptic, acute, somewhat narrowed below; inner three petals lanceolate, up to 2.5 cm. long, 5 to 6 mm. wide, very much thickened, the arched basal part 6 to 7 mm. long, 5 mm. wide, glabrous inside, the free portions narrowly lanceolate, acuminate. Anthers numerous, 3 mm. long, the connectives much thickened, 1 to 1.5 mm. long, obtuse. Carpels about 2.5, oblong, curved, glabrous, narrowed upward, 1.8 to 2 mm. long; style as long as the carpels, club-shaped.

British North Borneo, Batu Lima, near Sandakan, *Ramos* 1465, October, 1920. In damp forests at low altitudes. A species remarkable for its indumentum and especially for its very densely pubescent and ciliate sepals and petals, as well as for its conspicuous, elliptic, 1 cm. long, ciliate and pubescent bracts. The indumentum on the lower surface of the leaves is widely scattered, consisting chiefly of slender, elongated, subappressed hairs, attaining 2 to 3 mm. in length.

Artabotrys trigyna sp. nov.

Frutex scandens, floribus exceptis glaber vel subglaber; ramis ramulisque tenuibus, in siccitate nigris vel atro-brunneis, ramulis junioribus parcissime adpresse pubescentibus; foliis oblongis vel oblongo-ellipticis, 10-15 cm. longis 2.5-5 cm. latis chartaceis vel subcoriaceis, glabris, utrinque subaequaliter angustatis, basi acutis, apice perspicue acuminatis, nitidis, brunneo-olivaceis, nervis utrinque 12-15, tenuibus, distinctis; inflorescentiis oppositifoliis, breviter pedunculatis, parce pubescentibus, teretibus vel obscure compressis; floribus 2.5-3 cm. longis, sepalis parcissime pubescentibus, ovatis, acuminatis, 6 mm. longis petalis basi concavis 4 mm. diametro, dense subferrugineo-pubescentibus, supra linearibus, circiter 1 mm. latis, parce pubescentibus; carpellis 3, ovoides, glabris, stigmatibus circiter 1 mm. diametro.

A scandent shrub, nearly glabrous except the flowers. Branches and branchlets slender, terete, dark-brown or nearly black when dry, the ultimate branchlets very sparingly appressed-pubescent. Leaves oblong to oblong-elliptic, chartaceous or subcoriaceous, glabrous, shining, brownish-olivaceous when dry, 10 to 15 cm. long, 2.5 to 5 cm. wide, subequally narrowed to the acute base and the conspicuously acuminate apex; lateral nerves 12 to 15 on each side of the midrib, spreading, slender, distinct on both surfaces, arched-anastomosing, the reticulations lax; petioles 3 to 4 mm. long. Inflorescences leaf-opposed sparingly appressed-pubescent, the peduncles about 1 cm. long, at first nearly straight, ultimately curved, terete or slightly compressed, each bearing

about 5 flowers. Flowers yellow, about 2.5 to 3 cm. long, the subtending bracteoles oblong to oblong-ovate, deciduous, about 2.5 mm. long, the pedicels nearly glabrous, thickened upward, about 1 cm. long. Sepals coriaceous, ovate, narrowed upward to the conspicuously acuminate apex, very sparingly appressed-pubescent of nearly glabrous, about 6 mm. long, 5 mm. wide. Petals subequal, the concave bases densely appressed-pubescent on both surfaces, about 4 mm. long and wide, then abruptly contracted and linear, the linear part often curved, sparingly appressed-pubescent, thickened, obtuse, about 1 mm. wide, 2.5 cm. long. Anthers numerous, 1.5 to 1.8 mm. long, narrowed below, the connectives thickened, truncate and minutely pubescent at the apex. Carpels 3, ovoid, glabrous; styles about 1 mm. long, the stigmas expanded, disciform, about 1 mm. in diameter; disk densely ferruginous-pubescent. Fruits ellipsoid, dark-brown smooth, glabrous, sessile, about 1 cm. long; seeds 2, collateral.

British North Borneo, Batu Lima and Sibuga, near Sandakan, *Ramos* 1178 (type). 1875, October and December, 1920. In damp forests at low altitudes. A species belonging in the group with *Artabotrys suaveolens* Blume, and apparently most closely allied to *A. maingayi* Hook. f. and Th. and *A. gracilis* King, differing from all of these in numerous details in floral structure.

Fissistigma Griffith.

Fissistigma clementis sp. nov.

Frutex scandens, partibus junioribus foliisque subtus breviter adpresse ferrugineo-pubescentibus; ramis glabris; foliis oblongo-ellipticis, chartaceis, 4-8 cm. longis, acutis vel acuminatis, basi rotundatis vel obtusis, supra ovaceis, glabris, nitidis, subtus, brunneis et minute adpresseque ferrugineo-pubescentibus; nervis lateralibus utrinque 8-10, tenuibus; floribus axillaribus, solitariis, circiter 2.3 cm. longis; calyce triangulari, 4 vel 5 mm. diametro; petalis crassissimis, exterioribus oblongo-lanceolatis, obtuse acuminatis, 8-10 mm. latis, extus minute adpresseque pubescentibus, interioribus ovatis, 4 mm. longis, 3.5 mm. latis, acutis; carpellis plusminusve 10, glabris.

A scandent shrub, the younger parts, lower surface of the leaves, and flowers more or less ferruginous-pubescent. Branches and branchlets terete, slender, dark-brown or nearly black when dry, the former glabrous the latter more or less appressed-pubescent with shining ferruginous hairs, the very tips of the branchlets densely ferruginous- or cupreous-pubescent. Leaves oblong-elliptic, chartaceous, 4 to 8 cm. long, 2 to 3 cm. wide, the apex acute or acuminate, the base rounded or broadly acute, the upper surface olivaceous, glabrous, the lower surface brownish and minutely appressed-ferruginous-pubescent, the hairs more or less shining; lateral nerves 8 to 10 on each side of the midrib, slender, obscurely anastomosing, not prominent; petioles somewhat

pubescent or ultimately glabrous, 4 to 5 mm. long. Flowers yellow, axillary, solitary, about 2.3 cm. long, their pedicels up to 5 mm. long, somewhat pubescent and with 1 or 2 small bracteoles at or near the base. Calyx triangular, 4 to 5 mm. in diameter, somewhat ferruginous-pubescent, the angles acute. Petals much thickened, the outer 3 oblong-lanceolate, blunt-acuminate, 2 to 2.3 cm. long, 7 to 8 mm. wide, minutely appressed-pubescent with shining, ferruginous, short hairs, keeled inside, hollowed at the base; inner petals ovate, about 4 mm. long, 3.5 mm. wide, acute, somewhat pubescent. Anthers numerous, 1 to 1.2 mm. long, their connectives oblong-truncate. Carpels about 10, inequilateral, oblong, glabrous, 1 to 1.2 mm. long; styles about 0.7 mm. long. Very young fruits globose, glabrous, about 4 mm. in diameter, their pedicels 5 mm. in length.

British North Borneo, Batu Lima, near Sandakan, *Ramos* 1474 (type), October, 1920, in damp forests at low altitudes; Khota Bahul to Kibayo, trail to Mount Kinabalu, *Mrs. Clemens* 9766, October, 1915. A species in vegetative characters closely approximating to *Fissistigma elegans* (Wall.) Merr., but differing in numerous floral characters.

Oxymitra Blume.

Oxymitra grandifolia sp. nov.

Frutex scandens, ramulis et petiolis et subtus foliis ad costam nervosque perspicue ferrugineo-pubescentibus; foliis magnis, chartaceis, oblongo-ellipticis vel oblongo-obovatis, 25-50 cm. longis, apice plerumque late rotundatis, basi rotundatis, distincte cordatis, nervis utrinque 18-25, perspicuis, supra nitidis, costa excepta glabris, utrinque brunneis; infructescentiis extra-axillaribus, 4 vel 5 cm. diametro, fructibus numerosis, ellipsoideis, apiculatis, ferrugineo-pubescentibus, 10-12 mm. longis.

A scandent vine, the branchlets, infructescences and leaves on the lower surface conspicuously ferruginous-pubescent. Branches brown, about 5 mm. in diameter, wrinkled when dry, ferruginous-pubescent or glabrous, the branchlets very densely pubescent. Leaves chartaceous, oblong-obovate to oblong-elliptic, 25 to 50 cm. long, 11 to 15 cm. wide, the apex usually broadly rounded or sometimes very broadly and obscurely blunt-acuminate, the base rounded and usually shallowly cordate, the upper surface olivaceous, smooth, shining, glabrous or the midrib somewhat pubescent, the lower surface brown, rarely slightly glaucous, sparingly ferruginous-pubescent on the midrib, nerves, and reticulations; lateral nerves 18 to 25 on each side of the midrib, somewhat ascending, slightly curved, anastomosing, very prominent on the lower surface, the primary reticulations subparallel, distinct; petioles stout, pubescent, 6 to 18 mm. long. Infructescences extra-axillary, their peduncles stout, ferruginous-pubescent, 1 to 1.5 cm. long, the torus slightly thicker than the peduncle.

ferruginous-pubescent. Fruits numerous, ellipsoid, yellowish-white when fresh, brown when dry, 10 to 12 mm. long, more or less ferruginous-pubescent, apiculate, their pedicels pubescent, 1 to 1.5 cm. in length.

British North Borneo, Batu Lima and Sibuga, near Sandakan, *Ramos* 1910 (type), 1911, 1170, October and December, 1920. In damp forests at low altitudes. A species belonging in the group with *Oxymitra calycina* King and apparently most closely allied to *O. philippinensis* Merr., from which it is distinguished by its larger, more numerous nerved leaves, which are brown, not glaucous beneath, and in its much more conspicuous and longer indumentum.

***Oxymitra acuminata* sp. nov.**

Frutex scandens, ramulis petiolisque dense adpresse ferrugineo-pubescentibus; ramis glabris, nigris, ramulis 1.5 mm. diametro; foliis chartaceis, oblongo-ellipticis vel anguste oblongo-obovatis, 13-18 cm. longis, perspicue crasseque acuminatis, basi rotundatis, plerumque leviter cordatis, utrinque brunneis, nitidis, supra glabris vel ad costam nervosque parce pubescentibus, subtus haud glaucescentibus, vetustioribus glabris; nervis utrinque 10-15, subtus valde perspicuis, reticulis utrinque distinctis; infructescentiis in ramulis ultimis axillaribus extra-axillaribusque, circiter 4 cm. diametro, fructibus numerosis, ellipsoideis, apiculatis, 1 cm. longis, leviter pubescentibus, glabrescentibus.

A woody vine, the branchlets and petioles densely appressed-ferruginous-pubescent, the branches slender, terete, glabrous, nearly black when dry, 2 to 3 mm. in diameter, the ultimate branchlets 1.5 mm. in diameter. Leaves chartaceous, oblong-elliptic to narrowly oblong-obovate, 13 to 18 cm. long, 4.5 to 6 cm. wide, the apex conspicuously and rather stoutly acuminate, the acumen up 2 cm. long, blunt, the base rounded and usually slightly cordate, the upper surface brown or brownish-olivaceous, strongly shining, glabrous or nearly so, or the midrib and lateral nerves sparingly pubescent, the lower surface paler than the upper, brown, not at all glaucous, sparingly pubescent on the midrib and nerves, ultimately entirely glabrous; lateral nerves 10 to 15 on each side of the midrib, somewhat curved-anastomosing, very prominent on the lower surface, the primary reticulations subparallel and distinct on both surfaces; petioles 5 to 8 mm. long. Infructescences axillary and extra-axillary on the ultimate branchlets, their peduncles 1.5 to 2 cm. long, ferruginous-pubescent. Fruits numerous ellipsoid, about 1 cm. long, apiculate, sparingly pubescent or nearly glabrous, their pedicels somewhat thickened upward, pubescent, about 1 cm. long.

British North Borneo, Sibuga and Batu Lima, *Ramos* 1507 (type), 1171, October and November, 1920. In damp forests along small streams at low altitudes.

Goniothalamus* Blume.**Goniothalamus stenophyllus* sp. nov.**

Arbor, floribus exceptis glabra; ramis ramulisque tenuibus; foliis lineari-lanceolatis, chartaceis, olivaceis, nitidis, 20-30 cm. longis, 1.5-2.5 cm. latis, basi acutis vel subrotundatis, apice acuminatis, nervis utrinque circiter 23, supra impressis, subtus perspicuis, arcuato-anastomosantibus, reticulis laxis, obscuris; floribus caulinis vel in ramis vetustioribus solitariis vel fasciculatis, circiter 2.3 cm. longis, petalis exterioribus parvisime pubescentibus, lanceolatis, 7 vel 8 mm. latis, interioribus crassissime coriaceis, ovato-lanceolatis, utrinque pubescentibus, 10-12 mm. longis; antheris 2.5 mm. longis, connectivo apiculato; carpellis numerosis, oblongis, cupreo-hirsutis, 1-ovulatis.

A shrub or small tree entirely glabrous except the flowers. Branches and branchlets slender, pale when dry, terete or the branchlets somewhat enlarged and slightly compressed at the nodes. Leaves chartaceous, olivaceous and shining on both surfaces, linear-lanceolate 20 to 30 cm. long, 1.5 to 2.5 cm. wide, narrowed upward to the acuminate apex, the base rather abruptly acute, sometimes rounded; lateral nerves impressed on the upper surface, very prominent on the lower surface, the latter about 23 on each side of the midrib, straight or somewhat curved, anastomosing directly with the somewhat arched, equally distinct, submarginal nerves, the reticulations lax, obscure. Flowers cauline or on the larger branches below the leaves, solitary or fascicled, about 2.3 cm. long, their pedicels pubescent, 3 to 4 mm. in length. Sepals ovate, prominently acuminate, slightly pubescent, obscurely nerved, about 6 mm. long, 4.5 mm. wide. Outer petals lanceolate, about 2.3 cm. long, 7 to 8 mm. wide, acuminate, slightly pubescent; inner petals much thickened, ovate-lanceolate, about 12 mm. long, blunt-acuminate, pubescent, the upper portion of the cone triangular. Carpels many, oblong, 1-ovulate, 1.5 mm. long, appressed-pubescent; styles elongated, pubescent, 3 to 3.5 mm. long; stigmas somewhat expanded, not lobed nor toothed. Anthers oblong, 2.5 mm. long, their connectives apiculate.

Sarawak, Siol, *Native collector* 2423, February to June, 1914. the flowers indicated as yellow. A very strongly marked species readily recognizable by its chartaceous, linear-lanceolate, prominently nerved leaves, the midrib, lateral and marginal nerves being impressed on the upper surface and very prominent on the lower surface.

***Goniothalamus nitidus* sp. nov.**

Arbor circiter 7 m. alta, ramulis junioribus plus minusve cupreo- vel castaneo-pubescentibus, ramis glabris; foliis olivaceis, utrinque nitidis, supra glabris, subtus glabris vel parce pubescentibus, chartaceis, oblongis vel oblongo-ellipticis, 22-30 cm. longis, apice abrupte obtuseque acuminatis, basi acutis, nervis

utrinque 17-20, subtus perspicuis, arcuato-anastomosantibus; floribus fasciculatis, caulinis vel in ramis vetustioribus, pedicellatis, plusminusve 6.5 cm. longis, leviter pubescentibus; sepalis orbiculari-ovatis, 1 cm. diametro, reticulatis; petalis exterioribus lanceolatis, longe acuminatis, 1.5-2 cm. latis, interioribus calyptratis, 1 cm. longis; carpellis numerosis, 1- vel 2-ovulatis, hirsutis, stylis 3 mm. longis, glabris, stigmatibus 2-lobatis, lobis subflabellatis; fructibus oblongo-obovoideis, rugosis, glabris, circiter 2 cm. longis; seminibus 1, rariter 2.

A tree about 7 m. high, the very young branchlets more or less cupreous- or castaneous-pubescent, the flowers also somewhat pubescent. Branches dark-colored when dry, glabrous. Leaves olivaceous, shining on both surfaces, oblong to oblong-elliptic, 22 to 30 cm. long, 6 to 10 cm. wide, chartaceous, the apex abruptly and obtusely acuminate, the base acute, the upper surface glabrous, the lower surface sparingly pubescent, ultimately glabrous or nearly so; lateral nerves 17 to 20 on each side of the midrib, prominent on the lower surface, nearly straight, anastomosing directly with more or less arched marginal nerves 3 to 7 mm. from the edge of the leaf; the marginal nerves as prominent as the lateral ones, the reticulations subparallel, slender, rather lax; petioles 1 to 1.5 cm. long, slightly pubescent, ultimately glabrous. Flowers dark-red or reddish-brown, fascicled on the branches below the leaves and on the trunk, about 6.5 cm. long, their pedicels dark-brown when dry, sparingly ferruginous pubescent, 1.5 to 2 cm. long, each subtended by several ovate or oblong-ovate densely pubescent bracts 2 to 2.5 mm. in length. Sepals orbicular-ovate, nearly free, about 1 cm. in diameter, rounded or very shortly and obtusely acuminate, somewhat pubescent and distinctly nerved. Outer three petals lanceolate, 6 to 6.5 cm. long, 1.5 to 2 cm. wide, somewhat narrowed below, greatly narrowed upward to the rather slenderly but obtusely acuminate apex, sparingly appressed-pubescent on both surfaces, brown when dry, with a distinct midrib and several slender lateral nerves; inner three petals connivent, about 2.3 cm. long, 1 cm. wide, pubescent externally, glabrous inside, the lower surface of the cone somewhat inflated, then contracted, the upper part sharply triangular. Stamens very numerous, oblong, 3.5 mm. long, the connectives apiculate. Carpels many, oblong, inequilateral, 1.5 mm. long, pubescent, 1- or 2-ovulate; styles about 3 mm. long, glabrous, thickened upward, the stigma somewhat 2-lobed, the lobes more or less flabellate. Fruits oblong-ovoid, brown when dry, rugose, glabrous, about 2 cm. long, the apex rounded, base acute, the pedicels sparingly pubescent, their apices somewhat triangular. Seeds 1 or 2, obovoid, compressed, about 1.5 cm. long.

British North Borneo, Batu Lima, near Sandakan, *Ramos* 1668 (type), 1724, 1726. On steep forested ridges and along small streams in forests at low altitudes. A species apparently allied to *Goniothalamus fasciculatus* Boerl., from which it differs in its

chartaceous, abruptly an shortly obtuse-acuminate leaves, orbicular-ovate and distinctly nerved sepals, and in its larger flowers, the external petals not caudate-acuminate, the internal petals much larger and up to 2.3 cm in length.

Goniiothalamus dolichocarpus sp. nov.

Frutex 1 ad 3 m. altus, floribus exceptis glaber; foliis chartaceis vel subcoriaceis, oblongo-lanceolatis vel oblongo-oblanccolatis vel oblongo-ellipticis, in siccitate utrinque griseis et minutissime verruculosus, 25-40 cm. longis, 7-12 cm. latis, obtuse acuminatis, basi acutis vel subrotundatis, nervis utrinque 15-30, supra leviter impressis, subtus perspicuis, arcuato-anastomosantibus; floribus caulinis, plerumque solitariis, 3 cm. longis, petalis coriaceis, cinereo-pubescentibus, exterioribus oblongo-lanceolatis, 8-10 mm. latis, interioribus conniventibus, 2.2 cm. longis; antheris 3.5-4 mm. longis, connectivo rostrato; carpellis circiter 10, oblongis, 5- vel 9-ovulatis, stigmate truncato; fructibus cylindraceis, 6-11 cm. longis, 1.5-2 cm. diametro, glabris, seminibus 4-9.

A shrub 1 to 3 m. high, the trunk 1 to 2.5 cm. in diameter, glabrous except the flowers, branches grayish or brownish, rather smooth, terete, the ultimate ones 2 to 3 mm. in diameter. Leaves chartaceous to subcoriaceous, oblong-lanceolate to oblong-oblanccolate or oblong-elliptic, grayish and shining on both surfaces when dry and usually minutely verruculose, 25 to 40 cm. long, 7 to 12 cm. wide, obtusely acuminate, the base acute to somewhat rounded; lateral nerves 15 to 30 on each side of the midrib, slightly impressed on the upper surface, conspicuous on the lower surface, arched-anastomosing, forming a more or less looped marginal nerve, the reticulations lax, not prominent; petioles 1.2 to 2 cm. long. Flowers chiefly from the trunk and larger branches below the leaves, sometimes axillary, solitary, about 3 cm. long, greenish-white, the pedicels about 1.5 cm. long, the basal bracteoles triangular, pubescent, about 2 mm. long. Calyx about 1.3 cm. in diameter, the lobes coriaceous, ovate, conspicuously acuminate, somewhat pubescent, about 7 mm. long. Petals coriaceous, the outer three lanceolate to oblong-lanceolate, somewhat pubescent on both surfaces, about 3 cm. long, 8 to 10 mm. wide, narrowed upward, slightly acuminate; inner three petals oblong-lanceolate, cinereous-pubescent on both surfaces except at the vaulted base inside, 2.2 cm. long, 8 mm. wide, obtuse, the base slightly vaulted and distinctly clawed, the claw stout, 4 to 5 mm. long. Stamens numerous, 3.5 to 4 mm. long, the connectives rostrate. Carpels about 10, oblong, pubescent, 3 mm. long, the glabrous style equalling the carpels; stigma truncate; ovules 5 to 9. Fruits cylindric, 2 to 4 on each peduncle, yellow when fresh, dark-brown or gray when dry, glabrous, 6 to 11 cm. long, 1.5 to 2 cm. in diameter; seeds 4 to 9.

British North Borneo, Batu Lima and Sibuga, near Sandakan, *Ramos* 1259, 1623 (type), 1654, 1879, October, November, and December, 1920. In thickets and in forests along small streams at low altitudes, locally known as *babancaon*. A remarkable species on account of the small size of the plant; its elongated leaves which in color and texture resemble those of *Goniothalamus macrophyllus* Hook. f. and Th., its usually solitary and chiefly cauline flowers; its numerous ovules; and its greatly elongated, cylindric, 4- to 9-seeded fruits. In its numerous ovules it transcends the limits of the genus *Goniothalamus*, but unmistakably belongs in this group.

***Polyalthia* Blume.**

***Polyalthia tenuipes* sp. nov.**

Frutex 3 ad 4 m. altus, ramulis leviter pubescentibus; foliis breviter petiolatis, oblongo-ellipticis, chartaceis vel subcoriaceis, glabris, 18-30 cm. longis, 5-10 cm. latis, acuminatis, basi obtusis vel subrotundatis, symmetricis, leviter auriculato-cordatis, supra castaneis vel brunneo-olivaceis, nitidis, subtus pallidioribus vel brunneis, nervis utrinque 15-17, subtus valde perspicuis, arcuato-anastomosantibus, nervis secundariis et reticulis distinctis; infructescentiis axillaribus, longissime pedunculatis, pedunculo 10-20 cm. longo; fructibus ellipsoideis, 1 cm. longis, perspicue apiculatis, parvisime hirsutis, castaneis vel brunneis, pedicellis 1.5-2 cm. longis.

A shrub 3 to 4 m. high, the young branchlets slightly pubescent, the older branches brown or dark-brown when dry. Leaves shortly petioled, oblong-elliptic, 18 to 30 cm. long, 4.5 to 11 cm. wide, chartaceous or subcoriaceous, glabrous, the apex shortly acuminate, the base obtuse or somewhat rounded, symmetrical, slightly auriculate-cordate, the upper surface castaneous or brownish-olivaceous, smooth, shining, the lower surface paler, usually brownish; lateral nerves 15 to 17 on each side of the midrib, very prominent on the lower surface, arched-anastomosing, the reticulations lax, distinct; petioles stout, 5 mm. long or less. Flowers unknown. Fruiting peduncles axillary, slender, 10 to 20 cm. long, glabrous or slightly pubescent, the torus subglobose, up to 7 mm. in diameter, more or less ferruginous-hirsute. Fruits usually numerous, up to 30 on each peduncle, ellipsoid, about 1 cm. long, red when fresh, dark-brown when dry, very slightly appressed-hirsute, distinctly apiculate, their pedicels 1.5 to 2 cm. long, sparingly appressed-pubescent.

British North Borneo, Batu Lima, near Sandakan, *Ramos* 1501 (type), 1323, 1285, 1931, October and November 1920; *Wood* 962, October, 1920. In damp forests at low altitudes. A species apparently most closely allied to *Polyalthia longipes* (Miq.) Koord. and Val. of Java, but differing from this and from its ally,

P. subcordata Blume, in its more numerously nerved leaves which are symmetrical, not inequilateral at the base, its much longer peduncles, and its apiculate fruits.

***Polyalthia xanthopetala* sp. nov.**

Arbor 9 vel 12 m. alta, ramulis dense ferrugineo-pubescentibus; foliis oblongis vel late oblongo-oblanccolatis, 18-25 cm. longis, subcoriaceis, nitidis, brunneo-olivaceis, costa utrinque pubescentibus, acuminatis, basi late acutis vel subrotundatis, nervis utrinque circiter 13, subtus perspicuis; floribus 7 cm. longis, fasciculatis, pedicellatis, caulinis et in ramis vetustioribus; petalis subaequalibus, lanceolatis, circiter 7 cm. longis, 10-12 mm. latis, acuminatis, leviter pubescentibus; carpelibus numerosis, oblongis, pubescentibus, 1-ovulatis; fructibus subglobosis vel ovoideis, 2-2.5 cm. diametro, dense pubescentibus.

A tree 8 to 10 m. high, the branchlets slender, densely ferruginous-pubescent, the ultimate ones 1.5 mm. in diameter. Branches rugose when dry, glabrous, dark-colored. Leaves oblong to broadly oblong-lanceolate, subcoriaceous, 18 to 25 cm. long, 4 to 8 cm. wide, rather conspicuously acuminate, base broadly acute to somewhat rounded, the upper surface olivaceous, shining, glabrous except for the pubescent midrib, the lower surface somewhat paler, glabrous, or the midrib usually somewhat pubescent; lateral nerves about 13 on each side of the midrib, prominent on the lower surface, somewhat curved, scarcely anastomosing, the reticulations rather close, slender; petioles 5 to 10 mm. long, ferruginous-pubescent, in age glabrous. Flowers yellow, about 7 cm. long, fascicled on the trunk and on the branches below the leaves, few in a fascicle, their pedicels densely ferruginous-pubescent, 1.5 to 2.5 cm. long. Sepals triangular-ovate, acute, pubescent, 5 to 6 mm. long. Petals subequal, distinctly pubescent at the base outside, very sparingly pubescent above or glabrous inside, lanceolate, about 7 cm. long, 10 to 12 mm. wide, slightly acuminate. Stamens indefinite, oblong, 1.5 mm. long, the connectives produced, rounded, truncate. Carpels many, oblong, densely appressed-pubescent, 1.3 mm. long, 1-ovulate; styles somewhat club-shaped, 2 mm. long, deciduous. Mature fruits subglobose or somewhat ellipsoid, about 2 to 2.5 cm. in diameter, densely ferruginous-pubescent as are the fruiting pedicels, the torus in fruit about 1 cm. in diameter.

British North Borneo, Batu Lima, near Sandakan, *Ramos* 1705 (type), 1412, 1320, *Agama* 1027, October and November, 1920. In damp forests at low altitudes. A species apparently allied to *Polyalthia lateriflora* King, but at once distinguishable, among other characters, by its densely pubescent fruits.

Polyalthia dolichophylla Merr. in Philip. Journ. Sci. **14** (1919) 391.

British North Borneo, Labuk, Sekong, Sebuga, *Forworthy* 621, *Villamil* 264, *Ramos* 1573, 1639, 1642, 1717, 1739, 1740, *Domingo* 1110. In damp forests along small streams at low altitudes. A fine series of specimens of this very characteristic species matching in all respects our series of specimens from Panay. The species was previously known only from Panay.

Polyalthia subcordata Blume Fl. Jav. Anon. (1828) 71, *t.* 33, 36B; Koord. & Valetton Bijdr. Boomsort. Java **9** (1903) 292.

British North Borneo, Kalabakan, Tawao, Bibuga, and Batu Lima, *Wood* 905, *Villamil* 246, *Ramos* 1198, 1632, 1661, 1878, 1928, 1930. In damp forests along small streams at low altitudes. The fine series of specimens apparently represent the typical Javan form of the species, agreeing closely with Javan material and with the descriptions based on Javan material. I am inclined to believe that the Malay Peninsula form described and figured by King* as Blume's species is specifically distinct.

Polyalthia lateriflora (Blume)*King in Journ. As. Soc. Bengal **61**² (1892) 58, Ann. Bot. Gard. Calcutta **4** (1893) 73, *t.* 102.

Gutteria lateriflora Blume Bijdr. (1825) 20, Fl. Jav. Ann. (1828) 100, *t.* 50, 52 D.

Sarawak, Samatang and Santubong, *Forworthy* 167, 449, both in fruit, May and June, 1908. Malay Peninsula, Java.

Popowia Endlicher.

Popowia velutina King in Journ. As. Soc. Bengal **61**² (1892) 94, Ann. Bot. Gard. Calcutta **4** (1893) 120, *t.* 162B.

British North Borneo, Sandakan, *Wood* 850. On forested slopes at low altitudes. Malay Peninsula (Perak).

Phaeanthus Hooker f. and Thomson.

Phaeanthus impressinervius sp. nov.

Arbor parva, ramulis floribusque dense ferrugineo-vel castaneo-pubescentibus, ramis glabris; foliis oblongo-oblancoelatis vel elliptico-oblancoelatis, 17-25 cm. longis, subcoriaceis, in siccitate atro-olivaceis, utrinque nitidis, glabris, vel subtus ad costam nervosque parce pubescentibus, apice acuminatis, basi acutis, nervis utrinque circiter 12, supra impressis, subtus valde perspicuis, arcuato-anastomosantibus; floribus circiter 2.3 cm. longis, extus dense ferrugineo-vel castaneo-pubescentibus; sepalis petalisque exterioribus subaequalibus, ovato-lanceolatis, 1.5-2 mm. longis, acuminatis, petalis interioribus 10 mm. latis, acuminatis; capellis numerosis, 1-ovulatis, stigmatibus oblongo-obovoideo, dense ferrugineo-pubescente.

A small tree, the younger branchlets and flowers densely ferruginous- or castaneous-pubescent, the branches glabrous, brown rugose. Leaves oblong-ob lanceolate to elliptic-ob lanceolate, 17 to 25 cm. long, 5.5 to 8 cm. wide, subcoriaceous, dark-olivaceous and shining on both surfaces when dry, the upper surface glabrous or, when young, sparingly pubescent along the midrib, the lower surface slightly pubescent along the midrib and lateral nerves, ultimately glabrous or nearly so, the apex acuminate, base acute; lateral nerves about 12 on each side of the midrib, impressed on the upper surface, very prominent on the lower surface, arched-anastomosing, the reticulations slender, lax; petioles somewhat pubescent, 8 to 10 mm. long. Flowers about 2.3 cm. long, externally very densely ferruginous- or castaneous-pubescent, blunt-acuminate; sepals and exterior petals subequal, ovate-lanceolate, 1.5 to 2 mm. long, acuminate, the interior petals broadly lanceolate, acuminate, up to 2.5 cm. long, 1 cm. wide, internally glabrous. Anthers many, oblong, slightly narrowed below, the connectives truncate. Carpels many, oblong, 1-ovulate, appressed-pubescent, 2 mm. long; stigmas oblong-obovate, densely ferruginous-pubescent, including the glabrous style about 1.2 mm. in length.

British North Borneo, Sibuga, near Sandakan, *Ramos* 1792, December, 1920. In damp forests along small streams at low altitudes. A species well characterized by its densely ferruginous- or castaneous-pubescent flowers and its subcoriaceous, very prominently nerved leaves, the midrib and nerves being conspicuously impressed on the upper surface.

Uvaria Linnaeus.

Uvaria micrantha (DC.) Hook. f. & Th. Fl. Ind. (1855) 103; King in Ann. Bot. Gard. Calcutta (1893) 26, t. 18.
Guatteria micrantha DC. Mém. Anon. (1832) 42.

British North Borneo, Mempakat, near Kudat, *Agama* 1081, November 12, 1920, in thickets near the seashore. Burma to Indo-China, Malay Peninsula, Sumatra, Luzon, Mindoro, Panay, and Palawan.

Woodiella genus novum.

Sepala valvata, deorsum connata. Petala crassa, elongata, valvata, omnia usque ad 1 cm. connata, exteriora elliptica vel oblongo-elliptica, interiora, angustiora, oblanceolata. Stamina numerosa, oblonga, connectivo oblique truncato. Carpella numerosa, oblonga, 1-ovulata, stigmatibus compressis, orbicularibus, sessilibus, deciduis.—Arbor parva, inflorescentiis exceptis glabra; folia oblonga-elliptica vel oblongo-lanceolata, symmetrica, floribus medioeris, caulinis, fasciculatis, pedicellatis.

Woodiella sympetala sp. nov.

Arbor circiter 5 m. alta, inflorescentiis exceptis glabra, ramis teretibus, ramulis tenuibus; foliis oblongo-ellipticis vel oblongo-lanceolatis, chartaceis, 20-35 cm. longis, acuminatis, basi acutis vel rotundatis, nervis utrinque circiter 12, subtus perspicuis curvatis, obscure anastomosantibus; floribus fasciculatis, 3.5-4 cm. longis, leviter pubescentibus, petalis deorsum omnino connatis; fasciculis caulinis et in ramis vetustioribus, paucifloris.

A tree about 5 m. high, glabrous except the inflorescences, branches and branchlets terete, grayish, the ultimate branchlets about 1.5 mm. in diameter. Leaves oblong-elliptic to oblong-lanceolate, chartaceous, 20 to 35 cm. long, 6 to 13 cm. wide, rather pale when dry, shining, the apex rather conspicuously acuminate, base acute to rounded; lateral nerves about 12 on each side of the midrib, usually slightly impressed on the upper surface, very prominent on the lower surface, somewhat ascending, slightly curved, obscurely anastomosing, the primary reticulations slender, rather lax, subparallel; perioles 5 to 10 mm. long. Flowers fasciated on the branches below the leaves and on nodules on the trunk, yellowish-white, pedicelled, 3.5 to 4 cm. long, sparingly pubescent, their pedicels 2.5 to 3 cm. long, somewhat pubescent and with a small bracteole below the middle. Calyx about 1.5 cm. in diameter, somewhat pubescent, 3-lobed, the lobes broadly ovate, obtuse or acute, valvate, 8 to 9 mm. wide. Petals 6, valvate in two series, coriaceous, black when dry, wholly united for the lower 1 cm. the free portions of the outer ones oblong-elliptic to elliptic-obtuse, somewhat narrowed below, 3 cm. long, 12 mm. wide, the inner three narrowly oblanceolate, as long as the outer ones, but about one-half as wide, all thickly coriaceous, the tubular lower part of the corolla cylindric or slightly contracted at the throat, the lobes ascending or somewhat spreading. Stamens numerous, 3 mm. long, the connectives truncate, overlapping, only slightly produced. Carpels numerous, oblong, appressed-pubescent, 1.8 to 2 mm. long with 1 basal ovule; stigma orbicular, glabrous, compressed, sessile, about 0.8 mm. in diameter. Fruits oblong-ovoid, about 4 cm. long, dark-brown when dry, somewhat pubescent, subequally narrowed to the acute base and the obtuse apex, their pedicels pubescent, about 8 mm. long, the torus somewhat thickened, 1 cm. in diameter, ferruginous-pubescent; seed rather large (immature).

British North Borneo, Sibuga and Kalabakan, near Sandakan, *Ramos* 1562 (type), 1808, *Villamil* 262, September and November, 1916 and 1920. In damp forests, sometimes along small streams at low altitudes. This proposed new genus is dedicated to Mr. D. D. Wood, Conservator of Forests, British North Borneo. Through its petals being entirely united for the lower 1 cm. and otherwise strictly valvate, this proposed new genus approximates to *Papualthia*, a genus well represented in the Philippines and in New Guinea; it differs from *Papualthia* in its strictly 1-ovulate

carpels and in its symmetrical leaves. Its alliances otherwise are manifestly with *Polyalthia* § *Monoon*, from which it is at once distinguishable by its united petals. Like *Papualthia* it is probably a derivative of *Polyalthia*. Its flowers somewhat resemble those of *Enicosanthum*, but structurally are very different from those of that genus, and the proposed new genus is certainly not closely allied to *Enicosanthum*.

MYRISTICACEAE.

Knema Loureiro

Knema winkleri sp. nov.

Arbor, inflorescentiis exceptis glabra, ramulis ferrugineis, glaberrimis: foliis oblongis vel oblongo-ellipticis, coriaceis, 11-14 cm. longis, utrinque acutis, supra nitidis, olivaceis, subtus glaucis, nervis utrinque circiter 11, distinctis: floribus ♂ in alabastris depresso-globosis, subtriangularibusque, ferrugineo-pubescentibus, circiter 2.5 mm. diametro: pedicellis circiter 4 mm. longis: disco stamineo brevissime stipitato, glabro, triangulare 1.5 mm. diametro: antheris 6, in paribus ad angulos dispositis.

A tree entirely glabrous except the inflorescences. Branches dark-brown, terete, somewhat rugose, the bark fissured when dry, the very young branchlets ferruginous, shining, not at all pubescent. Leaves oblong to oblong-elliptic, coriaceous, 11 to 14 cm. long, 1.5 to 5.5 cm. wide, slightly subequally narrowed to the acute base and apex, the upper surface olivaceous, shining, the lower surface glaucous, the midrib and lateral nerves distinct on both surfaces, very prominent beneath, the nerves about 11 on each side of the midrib, the reticulations evident on both surfaces; petioles about 1.5 cm. long. Staminate flowers fasciated in the leaf axils and in the axils of fallen leaves, 5 to 10 in a fascicle, the pedicels minutely ferruginous-pubescent, about 4 mm. long, with a very small bracteole at the upper one-fourth, the buds minutely ferruginous-pubescent, depressed-globose, distinctly triangular, about 2.5 mm. in diameter; perianth-lobes coriaceous, orbicular-ovate, about 3 mm. long. Staminal disk sessile, triangular, about 1.5 mm. in diameter, the anthers 6, in pairs, a pair at each angle of the disk.

Dutch Borneo, Hayoe, *Winkler 2390*, 1908. A remarkably distinct species. The specimens have been distributed as *Litsea* sp. It apparently is most closely allied to *Knema wrayi* Warb. of the Malay Peninsula, from which it is distinguished by its flowers, nerves, and especially by its distinctly triangular buds, strongly triangular staminal disk, and by its few anthers, these being 6 only and in pairs at the angles of the disk, the sides of the disk being naked and without anthers.

***Knema oblongata* sp. nov.**

Arbor, ramulis dense ferrugineo-ciliato-tomentosis, ramis glabris; foliis oblongis, chartaceis vel subcoriaceis, 20-40 cm. longis, acuminatis, basi rotundatis, rariter subacutis, supra glabris, laevibus nitidis pallidis vel brummeis, subtus pallidioribus et leviter ciliato-pubescentibus, nervis utrinque circiter 33, supra leviter impressis, subtus valde perspicuis, reticulis subtus distinctis, supra subobsoletis; fructibus pedicellatis, ellipsoideis, 2.5-3 cm. longis, dense ferrugineo tomentosis, indumento plumoso, arillo apice tantum laciniato.

A tree about 8 m. high, the branchlets densely ferruginous-ciliate-tomentose, the branches glabrous or nearly so. Leaves oblong, chartaceous to subcoriaceous, 20 to 40 cm. long, 4 to 10 cm. wide, the apex distinctly acuminate, the base rounded, rarely subacute, the upper surface glabrous, smooth, shining, brownish or pale when dry, the lower surface paler, sometimes more or less glaucous, more or less ciliate-pubescent, the indumentum pale or ferruginous, rather dense along the midrib, scattered and more or less deciduous on the surface; lateral nerves about 23 on each side of the midrib, slightly impressed on the upper surface, very prominent on the lower surface, anastomosing, the reticulations rather close, distinct on the lower surface, but indistinct or often nearly obsolete on the upper surface; petioles rather stout, ferruginous-pubescent, 1 to 1.5 cm. long. Fruits axillary and in the axils of fallen leaves, ellipsoid, 2.5 to 3 cm. long, densely ferruginous-tomentose, the indumentum distinctly plumose. Aril lacerate only near the apex. Pedicels stout, ferruginous-pubescent, 8 to 10 mm. long.

British North Borneo, Batu Lima near Sandakan, *Ramos* 1433, 1721, 1757, 1663 (type), October and November, 1920; *Agana* 1003, November, 1920. On forested slopes at low altitudes locally known as *dara-dara*. A species apparently most closely allied to *Knema laurina* Warb. from which it is distinguished by its more numerous nerves and by the reticulations being nearly obsolete on the upper surface. The leaves are also much larger than in Warburg's species, while the fruits are distinctly pedicelled.

***Knema nitida* sp. nov.**

Arbor, inflorescentiis exceptis glabra, ramulis tenuibus, plerumque verruculosis; foliis chartaceis vel subcoriaceis, ellipticis vel oblongo-ellipticis, 18-30 cm. longis, apice rotundatis, obtusis vel obscure acuminatis, basi plerumque rotundatis, supra olivaceis, nitidis, subtus brummeis, nervis utrinque 14-20, subtus valde perspicuis, reticulis subparallelis, utrinque distinctis; floribus ♀ fasciculatis, pedicellatis, 7 ad 8 mm. longis, lobis ovatis vel oblongo-ovatis, 4.5-5 mm. longis; ♂ 8-9 mm. diametro, lobis late ovatis, disco stamineo breviter stipitato, distincte triangulare, 2 mm. diametro, antheris 6; fructibus ellipsoideis, 3-4 cm. longis, minute ferrugineo-puberulis glabrescentibus, arillo apice tantum laciniato.

A tree about 8 m. high, glabrous except the inflorescences which are more or less ferruginous-pubescent. Branches brown, terete, somewhat wrinkled when dry, the bark slightly or not at all fissured, the ultimate branchlets about 2 mm. in diameter, usually slightly verruculose. Leaves chartaceous or subcoriaceous, elliptic to oblong-elliptic, 18 to 30 cm. long, 7 to 12 cm. wide, the apex rounded, obtuse or sometimes obscurely acuminate, the base usually rounded, the upper surface olivaceous, strongly shining, the lower surface brownish, sometimes slightly glaucous; lateral nerves 14 to 20 on each side of the midrib, very prominent on the lower surface, somewhat spreading, curved, obscurely anastomosing, the reticulations subparallel, distinct on both surfaces, petioles 2 to 3 cm. long. Pistillate flowers fascicled, axillary, their pedicels up to 10 mm. long; perianth 7 to 8 mm. long, the buds oblong, cylindric, the lobes ovate to oblong-ovate, rounded or subacute, glabrous, 4.5 to 5 mm. long, coriaceous, united below into a sparingly ferruginous-pubescent, 2 to 3 mm. long tube; ovary ovoid, pubescent, the style stout, glabrous, 1.5 mm. long. Staminate flowers 8 to 9 mm. in diameter, the lobes broadly ovate, concave, rounded or obtuse, glabrous or obscurely pubescent, the buds depressed-globose, the pedicels 5 to 6 mm. long, somewhat pubescent; staminal disk shortly stipitate, the disk distinctly triangular, about 2 mm. in diameter, the anthers 6, in pairs at the angles of the disk. Fruits ellipsoid, brown when dry, 3 to 4 cm. long, minutely ferruginous-pubescent or ultimately glabrous, their pedicels stout, 1 to 2 cm. long. Aril lacerate only at the apex.

British North Borneo, Batu Lima and Sebuga, near Sandakan, *Ramos* 1278, 1530 (type), 1664, 1729, 1902, October, November, and December, 1920. Along small streams in damp forests at low altitudes. A species apparently most closely allied to *Knema korthalsii* Warb., but its ultimate branchlets entirely glabrous, the leaves relatively much wider and with fewer nerves, the reticulations distinct on both surfaces, the anthers 6 only and borne on the angles of the distinctly triangular staminal disk. It is one of the few known species with relatively large staminate flowers.

LAURACEAE.

Actinodaphne Nees.

Actinodaphne diversifolia sp. nov.

Arbor parva, ramis glabris, laevibus, ramulis dense ferrugineo-pubescentibus; foliis verticillatis, 10-30 cm. longis, utrinque subaequaliter argustatis, basi acutis vel cuneatis, apice tenuiter atro-brunneis, ferrugineo-villosis, nervis utrinque circiter 10, subtus valde perspicuis, reticulis primariis subparallelis, distinctis; umbellulis fasciculatis axillaribus extra-axillaribusque; bracteis orbiculari-ovatis, rotundatis, 2 mm. longis, deciduis, sessilibus vel subsessilibus, paucifloris; perianthii segmentis dense

ferrugineo-pubescentibus, late ovatis; staminodeis 9, lanceolatis, membranaceis, filamentis brevibus, longissime ciliatis; sepalis accrescentibus in cupulo 4-5 mm. diametro, lobis subpersistentibus; fructibus ovoideis vel ellipsoideis.

A small tree, the branches glabrous or nearly so, smooth, the branchlets, inflorescences, and lower surface of the leaves conspicuously pubescent. Leaves verticillate, lanceolate to oblong-lanceolate, subcoriaceous, 10 to 30 cm. long, 3 to 7 cm. wide, subequally narrowed to the cuneate or acute base and to the rather slenderly and sharply acuminate apex, the upper surface smooth, grayish-green when dry, shining, the lower surface rather dark-brown and densely ferruginous-villous on the midrib and lateral nerves, the hairs on the reticulations more scattered; lateral nerves about 10 on each side of the midrib, curved-ascending, not very evident on the upper surface, very prominent on the lower surface, the primary reticulations subparallel, rather close, distinct; petioles 1 to 3.5 cm. long. Flowers fascicled at the nodes and also along the internodes of the ultimate branchlets, ferruginous-pubescent, the subtending bracts orbicular-ovate, rounded, more or less ciliate, about 2 mm. in diameter, deciduous. Staminate flowers several in each umbellule, the umbellules sessile or nearly so. Perianth segments densely appressed-pubescent, broadly ovate, 2 to 2.2 mm. long. Stamines 9, membranaceous, lanceolate, glabrous, about 1 mm. long, their short filaments long-ciliate; glands conspicuous, ovoid-reniform, 0.5 mm. long. Calyx-tube in fruit somewhat cup-shaped, 4 to 5 mm. in diameter, ferruginous-pubescent outside, villous inside, the perianth-lobes subpersistent, the pedicels stout, ferruginous-pubescent, 3 to 4 mm. long. Young fruits ovoid or ellipsoid, black when dry, wrinkled, about 8 mm. long.

British North Borneo, Sebaga, near Sandakan, *Ramos* 1838, December, 1920. In damp forests at low altitudes. A species perhaps as closely allied to *Actinodaphne ridleyi* Gamble as to any other species, but differing radically in its vegetative characters.

Litsea Lamarck.

Litsea cuprea sp. nov.

Arbor parva, ramis olivaceis, subglabris, laevibus, circiter 1 cm. diametro; foliis alternis lanceolatis, subcoriaceis, 35-40 cm. longis, utrinque subaequaliter angustatis, basi cuneatis, apice tenuiter acuminatis, supra glabris, griseo-olivaceis, nitidis, subtus densissime cupreo-pubescentibus, indumento nitido adpresso, nervis utrinque 15-18, adscendentibus, distinctis; umbellulis fasciculatis, axillaribus, subsessilibus; bracteis dense brunneo-pubescentibus, orbiculari-ovatis, 4-5 mm. diametro; perianthii segmentis elliptico-ovatis, obtusis, 3 mm. longis, staminibus fertilibus 9, filamentis 2 mm. longis, parce ciliatis, staminodeis in floribus ♀ linearibus vel lineari-spatulatis, 1-1.2 mm. longis.

A small tree, the branches brownish-olivaceous, about 1 cm. in diameter, smooth, glabrous or slightly pubescent. Leaves alternate, subcoriaceous, 35 to 40 cm. long, 8 to 10 cm. wide, subequally narrowed to the cuneate base and to the slenderly acuminate apex, the upper surface smooth, glabrous, grayish-olivaceous, the lower surface cupreous, densely pubescent with very short, appressed, somewhat shining hairs; lateral nerves 15 to 18 on each side of the midrib, curved-ascending at an angle of about 45°, distinct on the lower surface, obscure on the upper surface, the primary reticulations rather distinct beneath; petioles glabrous, 2 to 2.5 cm. long. Umbellules fascicled in the leaf axils, few in a fascicle, subsessile, the peduncles at most 2 mm. long, these and the involucre bracts densely brown-pubescent, the bracts 4, orbicular-ovate, 4 to 5 mm. in diameter. Flowers about 5 in each umbellule, their pedicels stout, 3 mm. long, densely pubescent. Perianth-segments of the staminate flowers elliptic-ovate, obtuse, somewhat pubescent, 3 mm. long. Fertile stamens 9, their filaments about 2 mm. long, sparingly ciliate; anthers all 4-celled, 1.2 to 1.5 mm. long. Pistillate flowers similar to the staminate ones, the staminodes linear to linear-spatulate, 1 to 1.2 mm. long, the glands conspicuous. Ovary glabrous, stigma very large.

British North Borneo, Batu Lima, near Sandakan, *Ramos* 1267, October, 1920. In damp forests along small streams at low altitudes. A species strongly characterized by its elongated leaves which are grayish-olivaceous on the upper surface and densely cupreous-pubescent with short, appressed hairs on the lower surface. Its alliance appears to be with *Litsea firma* Hook. f. of the Malay Peninsula, Borneo, and Celebes, but it is radically different from that species in its vegetative characters.

***Litsea caulocarpa* sp. nov.**

Arbor parva ramulis et subtus foliis plus minusve ferrugineo-pubescentibus, ramis teretibus, ramulis leviter angulatis; foliis alternis, oblongo-obovatis, subcoriaceis, 20-33 cm. longis, acutis vel obscure acuminatis, minute apiculatis, basi cuneatis, supra olivaceis vel viridi-olivaceis, glabris, nitidis, subtus brunneis, nervis utrinque circiter 30, perspicuis; umbellulis fasciculatis caulinis et in ramis vetustioribus; pedunculis circiter 15 cm. longis, dense pallide-pubescentibus; bracteis obovatis, 6 mm. longis, truncato-rotundatis, dense pubescentibus; perianthii segmentis 6, plerumque oblanceolatis, 4-5 mm. longis; staminibus fertilibus 12, filamentis tenuibus, parce ciliatis, 6-7 mm. longis; sepalis accrescentibus in cupulo, sublignoso, glabro, 1.5 cm. diametro, truncato, subsessili; fructibus ellipsoideis, 12 mm. longis.

A tree up to 7 m. high, the branchlets and the lower surface of the leaves more or less ferruginous-pubescent. Branches terete, brownish, somewhat wrinkled when dry, glabrous, the branchlets more or less angular, rather densely pubescent. Leaves alternate, oblong-obovate, firmly chartaceous or subcoriaceous, 20 to 33 cm.

long, 8 to 14 cm. wide, the apex acute or very obscurely acuminate, rather minutely apiculate, somewhat narrowed below to the cuneate base, the upper surface olivaceous or greenish-olivaceous, glabrous, smooth, shining, the nerves impressed, the lower surface usually brownish, pubescent with scattered, short, usually ferruginous hairs; lateral nerves about 20 on each side of the midrib, prominent on the lower surface, spreading-curved, obscurely anastomosing, the reticulations rather distinct; petioles pubescent, 1 to 3 cm. in length. Flowers fascicled on the larger branches and on the trunk, few to many umbellules in a fascicle, the individual peduncles up to 15 mm. long, densely pubescent, the involucre bracts obovate, 6 mm. long, truncate-rounded, densely pale-pubescent. Staminate flowers 6 in each umbellule, their pedicels 3 mm. long, densely pubescent. Perianth-segments 6, usually oblanceolate, 4 to 5 mm. long, somewhat pubescent. Fertile stamens 12, their filaments slender, 6 to 7 mm. long, somewhat ciliate; anthers about 1 mm. long. Glands conspicuous, dark-colored, oblong-obovoid, somewhat stipitate, about 1 mm. long. Fruits 2 or 3 in a fascicle, rarely solitary on the smaller branches, up to 20 in a fascicle on the trunk, the latter fascicles up to 7 cm. in diameter. Accrescent calyx cup-shaped, glabrous, about 1.5 cm. diameter, shallow, truncate, brown when dry, obscurely 6-sulcate or rounded-angular, subsessile or very shortly pedicelled, the fruits ellipsoid, more or less angular to sulcate when dry, rounded, about 12 mm. long.

British North Borneo, Sebuga and Labuk, *Ramos 1894* (type), 1591, *Villamil 309*, November and December, 1920, and February, 1917. In damp level forests at low altitudes. A species probably as closely allied to *Litsea cauliflora* Stapf as any other described form, but differing in numerous details. It is well characterized by its fascicled, cauline inflorescences.

***Litsea sandakanensis* sp. nov.**

Arbor parva ramulis et subtus foliis dense patuleque ferrugineo-pubescentibus: foliis oppositis, chartaceis, oblanceolatis vel oblongo-ellipticis, 22-34 cm. longis, utrinque subaequaliter angustatis, basi acutis, apice acutis vel acuminatis apiculatisque, supra viridivivaceis, nitidis, subtus ferrugineis, nervis utrinque 12-14, subtus cum reticulis valde perspicuis; fructibus subsessilibus, axillaribus, fasciculatis vel solitariis, globosis, glabris, 8-10 mm. diametro, sepalis accrescentibus in cupulo, truncato vel irregulariter 4-lobato subdisciformi, 5 mm. diametro.

A small tree, the branches, petioles and lower surface of the leaves densely and softly ferruginous-pubescent with spreading hairs. Leaves opposite, chartaceous, oblanceolate to oblong-elliptic, 22 to 34 cm. long, 6 to 10 cm. wide, subequally narrowed to the broadly acute base and to the acute or slightly acuminate and distinctly apiculate apex, the upper surface greenish-olivaceous, shining, glabrous except for the pubescent midrib, not foveolate, the lower surface ferruginous, softly pubescent; lateral nerves 12

to 14 on each side of the midrib, slightly impressed on the upper surface, very prominent on the lower surface, curved-ascending, strongly curved near the margin, scarcely anastomosing, the secondary nerves and reticulations lax, very prominent on the lower surface; petioles densely ferruginous or brown-pubescent, rather stout, 1 to 1.4 cm. long. Fruits axillary, subsessile, fascicled, or solitary, globose, glabrous, 8 to 10 mm. in diameter, dark-brown when dry, smooth, the accrescent calyx pubescent, truncate or irregularly 4-lobed, about 5 mm. in diameter, almost disk-like.

British North Borneo, near Sandakan, *Ramos* 1507, October, 1920. In forests at low altitudes. A species manifestly belonging in the group *Litsea sessiliflora* Hook. f., but the indumentum on the lower surface of the leaves much denser, the nerves only slightly impressed on the upper surface, and the reticulations not at all impressed and scarcely evident on the upper surface.

***Litsea megalophylla* sp. nov.**

Arbor circiter 12 m. alta, ramis incrassatis, 1-2 cm. diametro, cicatricibus magnis instructis, rugosis, ramulis dense ferrugineo-pubescentibus; foliis coriaceis, obovatis vel oblongo-obovatis, 28-50 cm. longis, rotundatis, basi cuneatis, supra laevibus, pallide viridibus, nitidis, subtus brunneis, glabris, nervis utrinque circiter 25, cum reticulis valde perspicuis; infructescentiis racemosis, ex axillis defoliatis, 4-5 cm. longis, ferrugineo-pubescentibus; sepalis in cupulo valde accrescentibus paucis, sublignosis, rugosis, brunneis, glabris, cupulo 3 cm. longo, 2-2.5 cm. diametro, truncato, deorsum angustato crasse stipitato; fructibus ellipsoideis, leviter pubescentibus, 3.5 ad 4 cm. longis.

A tree up to 12 m. high, the branches glabrous, thickened, rugose, 1 to 2 cm. in diameter, brownish, the petiolar scars large and conspicuous, the ultimate branchlets 5 to 8 mm. in diameter, densely ferruginous-pubescent, more or less angular. Leaves coriaceous, obovate to oblong-obovate, 28 to 50 cm. long, 12 to 23 cm. wide, alternate, the apex broadly rounded, base cuneate, the upper surface smooth, pale-greenish when dry, the lower surface brown; lateral nerves about 25 on each side of the midrib, somewhat spreading, very prominent on the lower surface, curved-anastomosing close to the margin, the primary reticulations subparallel, very distinct; petioles stout, 2 to 3 cm. long, somewhat pubescent, ultimately glabrous. Fruits racemously arranged on rather stout, ferruginous-pubescent rachises from the axils of fallen leaves or from the branches below the leaves, the rachises 4 to 5 cm. in length. Calyx accrescent, almost woody, cup-shaped, rugose, brown when dry, glabrous or nearly so, 2 to 2.5 cm. in diameter, 3 cm. in length, abruptly contracted into a stout pseudostalk 1 to 1.5 cm. in length. Fruits ellipsoid, brown when dry, sparingly pubescent, 3.5 to 4 cm. in length.

British North Borneo, Batu Lima, near Sandakan, *Wood* 953 (type), *Ramos* 1460, October, 1920. In damp forests at low alti-

tudes. A species strongly characterized by its unusually large, obovate to oblong-obovate, coriaceous, rounded, very prominently nerved and reticulate leaves; by its thickened branches; and by its racemose inflorescences which are borne on the branches below the leaves. The accrescent calyces and fruits are unusually large. It probably belongs in the group with *Litsea megacarpa* Gamble, of the Malay Peninsula, but is radically different from that species.

***Litsea ellipticibacca* sp. nov.**

Arbor parva, ramulis leviter brunneo-pubescentibus exceptis glabra, ramis teretibus, laevibus, ramulis 2 mm. diametro; foliis alternis, coriaceis, anguste oblongis, 15-20 cm. longis, utrinque subaequaliter angustatis, basi cuneatis, apice acutis, nervis utrinque 14-20, subtus cum reticulis subconfertis distinctis; fructibus axillaribus, fasciculatis, sepalis accrescentibus in cupulo, incrassato truncato circiter 12 mm. diametro, breviter pedicellato, fructibus ellipsoideis, apiculatis, circiter 1.5 cm. longis.

A small tree, the very young branchlets sparingly appressed brown-pubescent, otherwise glabrous (flowers unknown). Branches terete, smooth, dark-brown, the ultimate branchlets about 2 mm. in diameter. Leaves alternate, coriaceous, narrowly oblong, 15 to 20 cm. long, 3.5 to 5 cm. wide, subequally narrowed to the acute apex and to the cuneate base, the upper surface smooth, somewhat shining, brownish or olivaceous when dry, the lower surface paler; lateral nerves 14 to 20 on each side of the midrib, spreading, somewhat curved, distinct on the lower surface as are the rather close reticulations; petioles 1 to 1.8 cm. long, dark-brown or nearly black when dry. Fruits in axillary fascicles and in the axils of fallen leaves, usually about 3 in a fascicle, the accrescent calyces shallowly cup-shaped, thickened, brown, truncate, about 12 mm. in diameter, the pedicels stout, 3 to 4 mm. in length. Fruits ellipsoid or slightly narrowed upward, apiculate, dark-brown or olivaceous when dry, shining, rather coarsely reticulate-rugose, about 1.5 cm. long.

British North Borneo, Batu Lima near Sandakan, *Ramos* 1397 (type), 1266, October, 1920. In damp forests along small streams at low altitudes. This species manifestly belongs in the group with *Litsea singaporensis* Gamble and *L. perakensis* Gamble, from both of which it is distinguished by its ellipsoid, not globose, fruits.

***Litsea grandis* (Wall.) Hook. f. Fl. Brit. Ind. 5 (1886) 162; Gamble in Journ. As. Soc. Bengal 75¹ (1912) 136.**

Tetranthera grandis Wall. Cat. (1830) no. 2552, *nomen nudum*; Meissn. in DC. Prodr. 15¹ (1864) 188.

Sarawak, Siok, *Native collector* 2404 *Bur. Sci.* February-June, 1914. Burma, Malay Peninsula, Java.

Litsea megacarpa (Gamble in Kew Bull. (1910) 361, Journ. As. Soc. Bengal **75**¹ (1912) 175.

British North Borneo, Sebuga, *Ramos* 1647, November, 1920. In forests along small streams at low altitudes. Malay Peninsula.

Litsea bancana (Miq.) Boerl. Handl. Kenn. Fl. Nederl. Ind. **3** (1900) 113.

Tetranthera bancana Miq. Fl. Ind. Bat. **1**¹ (1858) 950.

Sarawak, Simatan and Santubong, *Forworthy* 126, 131, 425, May and June, 1908. In forests at low altitudes. Banka, Java, Amboina.

Litsea odorifera Valetton in Ic. Bogor. **3** (1909) t. 276.

Sarawak, near Kuching, *Native collector* 93, 720, 1896 *Bur. Sci.* : British North Borneo, between Usukan and Khota Belud, *Mrs. Clemens* 9765. The specimens agree closely with Valetton's description and with material from specimens cultivated at Buitenzorg, Java. Sumatra, Palawan.

Dehaasia Blume.

Dehaasia triandra Merr. in Philip. Journ. Sci. **1** (1906) Suppl. 193.

British North Borneo, Batu Lima, near Sandakan, *Wood* 956. *Ramos* 1634, October and November, 1920. In forests at low altitudes. Philippines. The Bornean form has somewhat larger leaves than the common Philippine one, but the fertile stamens are 3 only, and there appears to be no essential differences.

Lindera Thunberg.

Lindera malaccensis Hook. f. Fl. Brit. Ind. **5** (1886) 183; Gamble in Journ. As. Soc. Bengal **75**¹ (1912) 194.

British North Borneo, Sandakan, *Wood* 965, *Ramos* 1538, October, 1920. In forests at low altitudes. Malay Peninsula.

HERNANDIACEAE.

Illigera Blume.

Illigera celebica Miq. Ann. Mus. Bot. Lugd. Bat. **2** (1865-66) 215.

British North Borneo, Batu Lima, near Sandakan, *Ramos* 1825. In thickets at low altitudes. The genus is new to Borneo, the species being previously known only from Celebes. The Bornean specimens agree very closely with Miquel's description except that the filaments are puberulent rather than pilose.

SAXIFRAGACEAE.

Polyosma Blume.*Polyosma integrifolia* Blume Bidjr. (1825) 659.

British North Borneo, Sibuguey, near Sandakan, *Ramos 1643*.
In forests along streams at low altitudes. Malay Peninsula,
Sumatra, Java.

CONNARACEAE.

Agelaea Solander.*Agelaea agamae* sp. nov.

Frutex scandens, inflorescentiis exceptis glaber: foliis 3-foliolatis, foliolis chartaceis vel subcoriaceis, oblongo-ellipticis, 9-15 cm. longis, perspicue obtuseque acuminatis, basi rotundatis vel subacutis, 3-nerviis, nervis adscendentibus, utrinque plerumque 3, perspicuis; paniculis e ramis defoliatis, leviter pubescentibus, 5 cm. longis, folliculis oblongo-obovoideis, 1-1.4 cm. longis, obtusis, haud rostratis, leviter rugosis sed haud tuberculatis, dense minuteque puberulis; seminibus haud arillatis.

A scandent, glabrous vine or the inflorescences slightly pubescent. Branches terete, grayish-brown. Leaves 3-foliolate, their petioles 6 to 12 cm. long; leaflets chartaceous or subcoriaceous, oblong-elliptic, entire, 9 to 15 cm. long, 4 to 6.5 cm. wide, the apex rather conspicuously acuminate, the acumen blunt, the base rounded to subacute, 3-nerved, the lateral leaflets somewhat inequilateral, the upper surface grayish, the lower surface somewhat brownish when dry; lateral nerves above the basal pair usually 3 on each side of the midrib, ascending at an angle of about 45°, somewhat curved, anastomosing, the primary reticulations lax, distinct; petiolules black when dry, about 5 mm. long. Inflorescences from the branches below the leaves, about 5 cm. long, slightly pubescent when young. Sepals elliptic-ovate, obtuse, 1.5 mm. long, more or less pubescent. Petals glabrous. Follicles somewhat inequilateral, oblong-obovoid, 1 to 1.4 cm. long, obtuse, not at all beaked, slightly rugose when dry, densely and minutely puberulent, the indumentum brown. Seeds narrowly oblong, up to 9 mm. long, the aril entirely wanting.

British North Borneo, Bulu River Valley, near Sandakan, *Agama 736*, September, 1919. In forests at low altitudes. A species belonging in the group with *Agelaea wallichii* Hook. f. of the Malay Peninsula and Sumatra, from which it differs radically in its follicles not being at all beaked and not at all tuberculate, and in the entire absence of the aril. From the Philippine *Agelaea trinervis* (Llanos) Merr., which it resembles even more

closely than it does *A. wallichii*, it differs in its non-tuberculate follicles which are not at all beaked, shorter inflorescences, and non-arillate seeds.

***Agelaea sarawakensis* sp. nov.**

Frutex scandens, inflorescentiis exceptis glaber; foliis 3-foliolatis, foliolis oblongis, coriaceis, 20-30 cm. longis, 6 ad 9 cm. latis, apice obscure obtuseque acuminatis, basi plerumque rotundatis, supra puncticulatis, nervis utrinque 8-10, patulis, perspicuis, anastomosantibus, reticulis perspicuis, densis; cymis axillaribus, fasciculatis, sub fructu 2 cm. longis; folliculis inaequilateralibus, 12-14 mm. longis, rugosis sed haud tuberculatis, brevissime rostratis, dense brunneo-pubescentibus; seminibus oblongo-ellipsoideis, 12 mm. longis, in inferiore parte quarta arillatis.

A woody vine, glabrous except the inflorescences, the branches reddish-brown, terete. Leaves 3-foliolate, their petioles stout, 8 to 11 cm. long; leaflets coriaceous, oblong, 20 to 30 cm. wide, obscurely blunt-acuminate, the base usually rounded, that of the lateral ones slightly asymmetric, the upper surface minutely pitted; lateral nerves 8 to 10 on each side of the midrib, spreading at nearly right angles, curved, strongly anastomosing, prominent on the lower surface, the reticulations rather close, prominent; petiolules 5 to 7 mm. long. Panicles cymose, fascicled in the upper axils, in fruit 2 cm. long or less, somewhat pubescent. Follicles somewhat rugose, inequilateral, 12 to 14 mm. long, very shortly beaked, not tuberculate, densely pubescent with short brown hairs, when mature strongly recurved. Seeds oblong-ellipsoid, about 12 mm. long, arillate in the lower one-fourth.

Sarawak, near Kuching, *Native Collector 1101, Bur. Sci.*, received in November, 1912. A species apparently most closely allied to *Agelaea hullettii* King of the Malay Peninsula, but the leaflets are larger, obscurely and obtusely acuminate, not acute, their bases rounded, not cuneate.

***Agelaea woodii* sp. nov.**

Frutex scandens, ramulis et inflorescentiis et foliis utrinque ad costam nervosque ferrugineo-pubescentibus; foliis 3-foliolatis, foliolis oblongo-ellipticis vel elliptico-ovatis, 10-15 cm. longis, basi rotundatis, apice perspicue obtuseque acuminatis, nervis utrinque 4 vel 5, perspicuis; paniculis axillaribus terminalibusque, angustis, 5-10 cm. longis; floribus 4- et 5-meris; sepalis dense pubescentibus, 1.8 mm. longis; staminibus 8 vel 10, filamentis glabris; carpellis 4 vel 5, dense hirsutis, anguste oblongis.

A scandent vine, the larger branches glabrous, purplish-black when dry, the branchlets, inflorescences and petioles rather densely ferruginous-pubescent. Leaves 3-foliolate, their petioles 4 to 5 cm. long; leaflets chartaceous or subcoriaceous, entire, oblong-elliptic to elliptic-ovate, 10 to 15 cm. long, 5 to 8 cm. wide, the

base rounded, somewhat 3-nerved; the apex conspicuously acuminate, the acumen stout, about 1 cm. long, blunt, the upper surface brownish-olivaceous, glabrous except for the ferruginous-pubescent midrib and nerves, the lower surface pale-brownish, somewhat pubescent along the midrib and nerves; lateral nerves above the basal pair 4 or 5 on each side of the midrib, prominent, curved, ascending, the primary reticulations also prominent; petiolules ferruginous-pubescent, about 4 mm. long. Panicles narrow, terminal and in the axils of the uppermost leaves, 5 to 10 cm. long, densely pubescent. Flowers 4- and 5-merous, white. Sepals oblong, obtuse, pubescent, 1.8 mm. long. Petals narrowly oblong-obovate, glabrous, 3.5 mm. long, 1 to 1.2 mm. wide, obtuse. Stamens 8 or 10, their filaments glabrous, 2 to 4 mm. long. Carpels 4 or 5, narrowly oblong, 1 mm. long, densely hirsute.

British North Borneo, Suan Lamba River near Sandakan, *Agama* 573, August, 1918. In level forests at low altitudes. The specimens were originally identified as *Agelaea borneensis* Merr. from which the species is radically distinguished by its slightly pubescent leaflets and by its floral characters. On account of the number of the stamens its alliance seems to be with *Agelaea wallichii* Hook. f. rather than *A. borneensis*. From *A. agamae* it is distinguished by its indumentum and by its inflorescences being terminal and axillary, not cauline.

***Connarus* Linnaeus.**

***Connarus euphlebius* sp. nov.**

Frutex scandens, perspicue ferrugineo-pubescent; foliis usque ad 40 cm. longis, foliolis plerumque 7, oblongo-ellipticis, chartaceis vel subcoriaceis, 10-16 cm. longis, supra glabris, nitidis, subtus ad costam nervosque ferrugineo-pubescentibus, acuminatis, basi rotundatis vel acutis, minute peltatis, nervis utrinque 10-12, supra impressis, subtus valde perspicuis; folliculis inaequilateraliter obovoideis, 4.5-5 cm. longis, 3 cm. latis, extus dense rufo-brunneo-pubescentibus, intus simpliciter pubescentibus, apice late rotundatis, inflatis, 2 cm. crassis, deorsum angustatis.

A woody vine, the branchlets, petioles, inflorescences, fruits, and the lower surface of the leaflets on the midrib and lateral nerves densely ferruginous-pubescent, the branches up to 1 cm. in diameter also with similar indumentum. Leaves up to 40 cm. long, rather long-petioled; leaflets usually 7, oblong to oblong-elliptic, chartaceous or subcoriaceous, 10 to 16 cm. long, to 6 cm. wide, the upper surface olivaceous, shining, the lower surface paler, apex shortly and obtusely acuminate, base rounded to obtuse and usually minutely peltate; lateral nerves 10 to 12 on each side of the midrib, impressed on the upper surface, very prominent on the lower surface, somewhat curved and ascending at an angle of about 45°, the primary reticulations subparallel, distinct. Panicles in fruit about as long as the leaves, the follicles obovoid, inflated, 4.5 to 5 cm. long, about 3 cm.

wide, the apex broadly rounded, the stigmatic portion broadly acute and laterally situated at about the upper two-thirds, gradually narrowed to the acute or somewhat obtuse base, inflated, about 2 cm. thick, outside very densely pubescent with dark reddish-brown hairs, inside simply pubescent with pale-brownish hairs. Seeds oblong, shining, the aril fleshy, yellowish-brown when dry, about 7 mm. long.

British North Borneo, Batu Lima near Sandakan, *Ramos 1181*, October, 1920. In damp forests and in clearings at low altitudes. A species well characterized by its very prominently nerved leaflets, the nerves being impressed on the upper surface and very prominent on the lower surface. The dark-brown indumentum of the branches, inflorescences, fruits, petioles and on the midrib and nerves on the lower surface of the leaflets, composed of short simple hairs, is characteristic. It apparently belongs in the group with *Connarus ferrugineus* Jack.

***Cnestis* Jussieu.**

***Cnestis palala* (Lour.) comb. nov.**

Thysanus palala Lour. Fl. Cochinch. (1790) 284, excl. syn. Rumph.

Thysanus cochinchinensis DC. Prodr. 2 (1825) 91.

Cnestis diffusa Blanco Fl. Filip. (1837) 386.

Cnestis ramiflora Griff. Not. 4 (1854) 432.

British North Borneo, Kudat, *Castro 989*, November, 1920, on slopes at low altitudes. Burma, Siam, Indo-China, Malay Peninsula, Sumatra, and the Philippines. The genus is new to Borneo. Loureiro's description clearly applies to this species and his specific name should be adopted.

The Bearded Pig (*Sus barbatus*) in the Malay Peninsula.

BY H. C. ROBINSON AND J. C. MOULTON.

We owe the remarkable discovery of the Bearded Pig in the Malay Peninsula to Dr. W. S. Leicester an enthusiastic sportsman who obtained a single female specimen some years ago in the vicinity of Pekan, Pahang. The occurrence, however, was so remarkable and so at variance with preconceived ideas of geographical distribution that pending further evidence it was not considered advisable to place the occurrence on formal record. Now however that a further specimen has been obtained from the same locality there is no doubt whatever that the species must be regarded as a member of the peninsula fauna, though as noted below we think it not improbable that its presence is really due to some extraordinary change resulting in the landing of a herd from Borneo, the home of the true *Sus barbatus*, or from the Rhio Archipelago where the rather dubious race *S. barbatus oi* is found.

In answer to queries Dr. W. S. Leicester wrote under date March 19th. 1918, in reference to the original specimen—a fully adult female: “Yes I am quite certain she was shot in the neighbourhood of Pekan. I remember a herd of this breed appeared in the neighbourhood and I shot this large sow and several half grown ones from time to time but could not get at the big boar which was very cunning and got away every time. They were some time about Pekan but eventually disappeared and I have not come across any since.”

Dr. Leicester very kindly presented this specimen to the F. M. S. Museums.

Mr. J. E. Kempe, District Officer, Pekan, has now obtained the skull of a boar, which he has generously presented to the Raffles Museum, Singapore; he writes under date December 6th. 1921: “It was shot by Towkay Lee Cheow,—an old Pekan character who has hunted and kept a pack these thirty years—about six weeks ago at a place called Sungei Genek, some two miles up river from Pekan town. He gave me the skull and the description and told me that in all his experience extending over thirty-three years, and including the slaughter of thousands of pigs he had never seen such an animal. He told me that the remarkable things about it were its great length and height, but what impressed him most was the fact that it had a thick tuft of hair under each eye about two inches long and a good sized beard.

“It weighed 180 katis (240 pounds) and was very emaciated. He said he thought, if in condition, it would have scaled 230 katis or more. It was a solitary boar.”

The above statement supports the suggestion that this animal was the last survivor of some herd that had gained access to the Malay Peninsula and which had not been able to maintain itself under exotic conditions. Possibly even, it was the actual boar to which Dr. Leicester refers.

The description together with an excellent sketch with measurements, at once suggested the interesting possibility of this pig being *Sus barbatus* which was originally described from Borneo and later discovered in Sumatra and the Rhio Archipelago, and described by Miller under the name *Sus oi*.¹

A comparison of the skulls with a topo-type of *Sus oi* from the Indragiri River, S. E. Sumatra, and with specimens from Tanjong Batu, Great Durian Island and Bintang Island, Rhio Archipelago, shows that they cannot be separated with certainty from this form, nor on the other hand can they be distinguished from a considerable series of the true *Sus barbatus* from various parts of Sarawak, Borneo.

The question then arises, is this pig indigenous in the Malay Peninsula, or is this particular record the result of some fortuitous visit by an adventurous pair—perhaps from Pulo Batam, 10 miles south of the southern extremity of Johore—who established themselves for a brief period in Pahang? Native stories of a giant white pig in Johore undoubtedly refer to this species. On the whole we are inclined to think that it is not indigenous in the Malay Peninsula. Its rarity here—we know of no other examples having been killed or seen authentically—seems to point to the fact of it being only an occasional visitor. If it were a Peninsula species in the strict sense, the geographical distribution would be difficult to explain. On the other hand one should not lose sight of the fact that under favourable circumstances sufficient individuals might reasonably come in from the Malayan Islands near the mainland and establish themselves for a noticeable period.

Mr. Boden Kloss² has recently dealt with the Malaysian Bearded Pig. He points out the difficulty of distinguishing *Sus barbatus* of Borneo and *Sus oi* of Sumatra and Rhio on the dental characters given by Miller.³ We agree that they are too variable to be of any use. Kloss however would separate *Sus oi* on the longer muzzle ("and perhaps a little broader"); the longer mandibular symphysis; the deeper mandible and the slightly more concave profile of the face. These statements broadly speaking agree with certain notes made by one of us in the early part of 1918 but hitherto unpublished on the topo-type of *Sus oi* in the Raffles Museum, which were as follows:—

1. Miller, Proc. Biol. Soc. Washington, xii, p. 51 (1902).
 2. Kloss, Journ. Straits Branch, Roy. Asiat. Soc. No. 83, pp. 147, 150, (1921).
 3. Miller, Proc. U. S. Nat. Mus. pp. 737-758 pls. XXXIX-LXIII (1906).
- E. A. Soc., No. 85, 1922.

"The specimen is an absolute topo-type of *Sus oi* and in view of certain differences between it and the description and measurements of the type merits more detailed description. The animal is very fully adult but not aged. The naso-frontal suture is still visible but the basi-occipital is completely ossified. The teeth including the posterior molars in both jaws are somewhat worn but not so that the details of the enamel spaces cannot be recognized.

"Viewed in the basal aspect, the rostrum, anterior to the canines is broader than in similarly aged specimens of *S. barbatus*. The zygomata are more heavily built and more divergent and the tusk sheaths more recurved than in the Bornean animal while the cranial region is more sharply bent upwards from the level of the orbits. The mandibular symphysis is longer and this region of the jaw heavier than in *Sus barbatus* of equal size. Mr. Miller states that out of the specimens examined by him only two, the type and a specimen from Palembang, had the posterior molars in a condition fit for examination. The diagnosis of the race, however, depends on the fact that in *Sus oi* the upper posterior molar has 'its posterior portion much narrowed* the lower tooth lacking the terminal heel but with the third transverse ridge reduced to a terete heel-like remnant.'"

Further examination of larger series from Borneo and elsewhere now convinces us that real differences between the Bornean animal and others from Rhio and Sumatra have not yet been demonstrated and that all the alleged characters of skulls from the latter localities can be explained by the varying age and innate variability of the specimens examined.

We are therefore of the opinion that there is no justification for regarding *Sus oi* as distinct, even subspecifically, from *Sus barbatus* and we therefore retain this last name to cover the Bearded Pig of Borneo, Sumatra, the Rhio Archipelago and Pahang.

The Giant Pig of South East Borneo and that from portions of Eastern Sumatra may possibly be a distinct race or even species as suggested by Kloss but we have no material on which to base an opinion. The former has been named *Sus gargantua*, Miller, and is based on a single not very old skull in the collection of the Agricultural High School, Berlin, from an unspecified locality in South East Borneo, which is the largest known skull of the genus *Sus* in any collection. The Sumatran form, as yet known from native accounts only, has been inadvertently named *Sus branti* by Kloss (*antea*) though as the name is accompanied by a description it will, by the laws of nomenclature, stand.

A table of measurements of the Peninsular, Bornean, Sumatran and Rhio Archipelago specimens of *Sus barbatus* is

* "This is visible in one young adult male (3rd upper molar fully erupted but hardly worn) from Sarawak."

Cranial Measurements of Malaysian Figs.

Sus barbatus Miller & Sus jathatus Miller.

	Pekan, Pahang, female. Dr. Leicester (c) Selangor Museum.	J. E. Kempe (c) Raffles Museum, Singapore.	Indragiri River, S. B. Sumatra. male U. S. Nat. Mus. Type.	Indragiri River, S. B. Sumatra. male. Raffles Museum, Singapore.	Bintang Id. Rhio. Archipelago male. B. M. 94.1.507.	Sarawak, male. B. M. 97.6.25.1.	Sarawak, male. B. M. 906.25.10.	H. C. R. 1967.	Sarawak, adult male. H. C. R. 1959.	H. C. R. 1974.	Sarawak, adult male. H. C. R. 1975.	Sarawak, adult male. H. C. R. 1978.	Sarawak, adult male. H. C. R. 1977.	H. C. R. 1968.	Nr. Ipoh, Perak, male. Selangor Museum.	Karang, Selangor, male. Selangor Museum.	Kuala Lumpur, Selangor, male. Selangor Museum.	Lanet, Perak, male. Selangor Museum.
Upper length	436	447	465	480	433	486	483	468	441	433	443	486	422	422	361	352	336	354
Basal length	381	428	417	415	362	413	400	402	382	402	393	415	375	375	323	352	336	354
Basilar length	374	427	393	390	362	413	400	393	373	393	384	405	365	365	301	352	297	309
Palatal length	302	344	331	330				328	308	313	310	332	287	287	225	219	207	219
Width of palate at p.m.	51.5	57	52	50				61	58	57	53	59	49	49	42	40	40	38
Width of palate including m's	69	73	72.2	72.6				74	72	72	68	72	70	70	73	74	71	68
Zygomatic breadth	160	182	177	162				180	176	176	168	181	151	151	155	154	145	141
Least width of palate at front of m's	30.0	28	30.2	28.4				33	30	28	27	28	29	25	25	25	25	20
Least interorbital breadth	64	75	83	80	71	68	77	80	73	81	76	75	63	63	74	78	71	73
Parietal constriction	19	19.5	5	11				19	18	11	14	17	21	21	31	45	27	23
Nasal breadth at posterior extremity of premaxillaries	36	37	40.9	38.0				41.5	37	33	38	40	35	35	30	39	30	31
Length of nasals	232	260	245	240	216	252	239	237	218	220	220	238	196	196	186	175	168	171
Occipital depth to basion	118	153	152	140				147	142	137	140	141	123	123	119	119	109	109
Mandible	331	378	373	360				360	343	355	348	369	370	331	283	277	268	279
Maxillary tooth row (alveoli)	133	141	142	139.4	125	135	134	128	129	134	140	138	124	124	117	115	118	12
Second upper molar	23x18	21x19	22x18	23x19.4				20x19	22x20	24x21	24x21	24x21	23x21	20x20	20x20	21x20	21x20	21x20
Third upper molar	33x20	28x23	31x23	31x23	37x23	39x21	139x23	39x23	37x23	36x22	37x23	39x22	35x22	35x22	35x22	36x24	32x22	37x22
Mandibular tooth row (alveoli)	128	134	134	123	120	126	137	124	124	132	128	138	131	131	111	110	113	110
Second lower molar	215x16	24x17	22.7x15.8	22x16.0				21x17	22x18	23x18	24x18	24x17	24x18	23x17	20x17	20x18	21x18	21x16
Third lower molar	46x17	44x19	38.9x17.7	33.8x18.4	41x18	38x18	0.47x17	46x19	37x18	44x20	48x18	42x19	44x19	41x20	39x20	39x21	37x20	35x18

Malay Peninsula	Sumatra	Rhio Archip.	Borneo	Malay Peninsula
				Sus barbatus

appended in which is included for comparison measurements of normal specimens of the ordinary central Malayan form, *Sus jubatus*, Miller, from which it will at once be seen how greatly *Sus barbatus* differs in size.

For the benefit of the non-technical sportsman, who may meet the Bearded Pig in the field, we may state that it may at once be recognized:—

- (1) By its large size, elongated and narrow head and by the great height at the shoulder and narrow dorsal ridge,
- (2) By its pale colour compared to the ordinary local form,
- (3) By its *beard* and by the possession between the eye and the nostril on each side of the muzzle of a large warty outgrowth covered with bristles, which is large and conspicuous in males, smaller in females, but always visible even in young animals.

From the accounts available it would appear that Sumatran, Rhio Archipelago and Malayan animals are more scantily haired than those from Borneo. This was certainly the case with the Bintang specimen recorded in the table when seen in the flesh.

The reported occurrence of Russell's Viper in Sumatra & the Malay Peninsula.

BY J. C. MOULTON.

Some 50 years ago Dr. J. Fayrer compiled statistics to show that the death-rate in India from snake-bite amounted to about 20,000 persons per annum. The snakes responsible for this enormous mortality are the Cobra (*Naia naja* = *tripudians*), the Krait (*Bungarus candidus*), the Hamadryad (*Naia bungarus*) and Russell's Viper (*Vipera russelli*), in that order of importance.

In Malaysia three species of Krait are known: the Banded Krait (*Bungarus fasciatus*), the Krait (*B. candidus*), and the Yellow-headed Krait (*B. flaviceps*). All are rare in Malaysia. The Cobra and Hamadryad however are by no means rare in the Malay Peninsula and adjoining Islands. Although records of death from snake-bite in these Malay countries are extremely rare it is generally known that these two snakes are the most dangerous and the most to be feared. Other snakes such as the Coral Snakes and Pit-Vipers in Malaysia are poisonous, although an injection of their poison is not necessarily always fatal.

Russell's Viper, or the Daboia, or Tic Polonga, as it is variously called in India, is particularly deadly, and unfortunately common in many parts of India. Fayrer states that 471 snakes were brought in for record in one day at Amritsar in 1866. Of these over 300 belonged to this one deadly species. E. G. Boulenger states that it is "even more venomous than the majority of Cobras, its bite killing fowls in from thirty seconds to a few minutes, dogs in from ten minutes to four or five hours, and man in under twenty-four hours."

Three recognized authorities in herpetology, Drs. G. A. Boulenger, T. Barbour and Nelly de Rouij have excluded Russell's Viper from the Malay Peninsula or Archipelago. And such I think is the generally accepted opinion. It is therefore somewhat alarming to find the following passage in a book entitled "Reptiles of the World" by Raymond L. Ditmars, Curator of Reptiles and Assistant Curator of Mammals in the New York Zoological Park, published in London 1910:—

"One of the commonest and most deadly snakes of India is a species of *Vipera*. This is *Tic Polonga*, the *Daboia*, or *Russell's Viper*, *V. russellii*, a beautifully-coloured reptile reaching a length of five feet.

"The range of this snake, the largest of the Asiatic vipers, embraces India, Ceylon, Burma, Siam and the Malay Peninsula. My friend, Mr. Rudolf Weber, brought several small specimens of typical coloration from Sumatra, showing the species to occur on at least one of the larger islands."*

E. G. Boulenger (1914) states that:—

"*Russell's viper*, *V. russelli*, or *Tic-polonga*, as this large and justly dreaded snake is known in Ceylon, is found in hills, as well as in the plains of India, Ceylon, Burma, Siam, and Sumatra."

He based his record as regards Sumatra on the British Museum Catalogue, but in a letter to me dated 20th June, 1921, Mr. Boulenger agrees now that this may be regarded as a mistake.

In spite of this very definite assertion by Ditmars I felt that the discovery of Russell's Viper in Sumatra was so remarkable that it was worth while making some inquiries in order to obtain confirmation of this interesting record.

My friend Dr. T. Barbour of the Museum of Comparative Zoology, Cambridge, Mass., at my request interested himself in the matter and ascertained from Mr. Ditmars himself the following particulars about Mr. Weber and his Sumatran collections. Dr. Barbour writes:—

"It seems that between 1892 to 1898 he (Mr. Rudolf Weber) was employed as an artist to illustrate publications of the Museum of Natural History in New York. During the latter part of this period he went on a scientific mission to Sumatra, but Ditmars informs me that now he thinks of it, that all of Weber's reptiles were dumped into large jars and remained lying about the Museum uncared for many years." Dr. Barbour concludes that "there is absolutely no reason whatever to suppose that Weber did not collect these creatures in India while he was passing through en route to Sumatra."

The specimens are not to be found in the New York Museum now.

In the British Museum Catalogue of Snakes, the locality for one specimen in that Museum is "? Sumatra." In the British Museum Hand-list of Snakes the distribution is given as "India, Burma and Siam; Java and Sumatra ?"

In the light of the above I think one must look with considerable suspicion on the definite assertions by Ditmars and E. G. Boulenger as to its positive occurrence in Sumatra. Dr. Malcolm Smith gives Bangkok as the southernmost locality for it in Siam, and that I think must be regarded, at present, as the nearest point to the Malaysian sub-region, this deadly snake has yet reached.

* The italics are mine. J. C. M.

A New Method of Writing Trinomials.

BY J. C. MOULTON.

In my "Hand-List of the Birds of Borneo" published in this Society's Journal No. 67, 1914 (pp. 125-191) I introduced a slight innovation in the method of writing trinomials.

A trinomial is usually written thus:—

Chloropsis viridis viriditectus Hartert.

I criticized this method on two grounds:—

(i) that the relatively greater importance of the *specific* name is not emphasised, or, to put it another way, that the *sub-specific* name is given undue prominence equal to, if not greater than, the *specific* name.

(ii) that the name of the author of the *species* is omitted, while that of the author of the less important *subspecies* is retained.

As an improvement I therefore wrote:—

CHLOROPSIS VIRIDIS Horsfield *viriditectus* Hartert
shortened to:—

CHLOROPSIS VIRIDIS Horsf. *viriditectus* Hart.

In this way due prominence is given to the specific entity, while the fact that the species is divisible into geographical races of relatively less importance is shewn by placing the subspecific name in less prominent type. The insertion of the author's name after the species obviates ambiguity, and is only a reasonable recognition of that author's work. At the same time it serves to mark off the subspecific name as a form apart.

It might be argued of course with justice that the name of the author of the *genus* should also be inserted. But the long-established custom of running generic and specific names together is sufficiently important to over-ride any such further innovation.

I referred the point to the British Association Committee on Zoological Bibliography and Publication, whose opinion thereon was published in the Committee's Report to the Association (Section D) at the Edinburgh meeting in 1921 as follows:—

"The Committee agrees that the alterations introduced by Mr. Moulton tend to increased clearness. If it be ever necessary to give the name of the author of the species, it is no less necessary when the form referred to is one of the subspecies into which the species has been divided, and Mr. Moulton's method of introducing it seems unexceptionable.

"The Committee does not wish by this expression of opinion to encourage the insertion of authors' names in general writing, except when they are needed to avoid ambiguity. Mr. Moulton's devices are best suited for such systematic lists as those in which he has employed them."

The type to be used is of some importance. In criticism of my method it has been suggested that capitals and small capitals would be better than small capitals and italics, because italics are so generally used to denote a synonym. The disadvantage of this is that capitals are so often required in systematic lists for subfamily names that it is desirable to reserve a less prominent type for the genus and species when written together in this way. Small capitals or clarendon would appear the most suitable for the genus and species with italics for the subspecies.

The inclusion of authors' names undoubtedly has a cumbersome effect and should only be employed in systematic lists or detailed monographs. In other works it is reasonable to omit them altogether; in fact for general purposes it should often suffice to give only the specific name and omit the subspecific name, unless there is any point in drawing attention to the subspecific distinction of the particular form under discussion.

The usual method of abbreviation in writing Latin names for well-known genera and species, or for genera which have been discussed already in any particular paper, is to give the initial letter of the genus instead of the name in full; thus *Elephas maximus*, becomes *E. maximus*. This system can be extended with advantage in the case of subspecies; thus, in discussing the subspecies of the Asiatic Elephant, reference would be made to the Sumatran form as *E. m. sumatranus*. In systematic lists, according to the method introduced by me and approved for such purposes by the British Association Committee on Zoological Bibliography and Publication, this would read: *ELEPHAS MAXIMUS* Linn. *sumatranus* Temm., but for general purposes the abbreviated form as written above is regarded as more suitable.

Hindu Image from Sarawak.

By J. C. MOULTON.

Early in 1921 a very interesting discovery was made at Limbang, Sarawak, by workmen removing the top of a hill near the Residency. They unearthed a small stone image, in remarkably good preservation, of Ganesa, the elephant-headed god of Wisdom. Ganesa or Ganapati, as one of the sons of Siva and Parvati, is one of the most revered gods of the Hindus. In the Hindu-Javanese religion he is Sang Yang Gara. He is the god of wisdom, the remover of obstacles. He is invoked at the beginning of a book and of important undertakings. He is a short fat figure, with protuberant belly, four hands, and the head of an elephant with only one tusk. In one hand he holds a shell, in another a discus, in the third a club or goad and in the fourth a water-lily. Sometimes he is depicted riding upon a rat or attended by one. His temples are numerous in the Dekhan. There are many legends accounting for his elephant head.¹

The Sarawak image (see illustration) shows the god sitting on the usual lotus cushion. The actual height of the image is 24 inches and the rough stone block on which it rests 12 inches. Mr. F. F. Boulton, Resident of Limbang, sent it to the Sarawak Museum, Kuching.

Prof. Dr. N. J. Krom of Leiden University, to whom I showed photographs, when he was on his way through Singapore, tells me that similar images were found on Gunong Kombeng in South-East Borneo some ten years ago.² They included a Ganesa, a Brahma and a Siva. He suggested that the Sarawak image was of more direct Hindu origin and therefore probably older (6th or 7th century) than these discovered in South-East Borneo, which were undoubtedly of Hindu origin. A list of all the Hindu images discovered in Dutch Borneo will be found in the "Encyclopaedie van Nederlandsch-Indie" (1919) vol. III, p. 198 under *Oudheden*.

Sir John Marshall, Director-General of Archaeology in India, kindly gives me the following interesting note, from which it will be seen that he suggests a later date for this Sarawak image.

"The image appears to be very similar to the ordinary type of Ganesa in India. The chief distinguishing features of the latter are (a) the elephant's head, (b) three eyes, (c) four arms, the usual symbols in the hands being a bowl of sweets, a rosary, an ear and the detached tusk of Ganesa himself, (d) a corpulent belly, (e) and a snake doing duty as the sacred thread. In the Borneo image we have the same large belly, the elephant's trunk and a snake for the *yajnopavita*.

1. Vide J. Dowton "A. Classical Dictionary of Hindu Mythology."

2. *Oudheid Kundig Verslag* 1914, p. 152.



Ganesa found in Sarawak.

"Indian images of Ganesa are found seated in three different postures: (a) cross-legged, (b) one of the knees upraised and the other lying on the throne; (c) the right foot overhanging from the throne and resting on the ground and the left leg lying on the throne (*sukhasana*). In *Archaeologisch Onderzoek of Java en Madura*, Vol. II, Plates 40-42 are reproduced photographs of an image of Ganesa from Singasari in Java (now in the Ethnographical Museum of Leiden) which is seated with the right knee upraised and the left leg lying on the seat (surrounded by skulls). But in the Indian Museum there are two (Ja. 5 and 19) images of Ganesa from Java that are seated with the soles of the two feet joined. Photograph of Ja. 19 is enclosed herewith. This posture is un-Indian and appears to indicate a period of time when the Javanese image-makers had outlived the trammels of Indian tradition. In the photograph of the Borneo image the feet are not clear and probably mutilated. But there cannot be any doubt about the posture being the same as that of the two Javanese images of Ganesha in the Indian Museum, that is to say, seated with the soles of the two feet joined. The trunk (*sunda*) hangs down in a manner which suggests that, as in the Indian examples, it presumably rested on a bowl of sweets. The head-dress appears to be an elaborate conventional form of the *jatā*, the "matted locks" which Siva wears despite the incongruity in the case of Ganesha! If it is a *Jatā*, the image must represent Ganesha in an ascetic aspect, seated in meditation. This would explain the contemplative expression. But ascetic and contemplative Ganeshas are not known in India.

"The Javanese images are assignable to the thirteenth century A. D., the age of the Brahmanic temples of Brambanan and Singasari. The Borneo image, which in its posture seems to disclose Javanese influence, is probably to be assigned to about the same epoch but may be somewhat earlier. The earliest Brahmanic inscriptions found in Borneo (published by Vogel in a Dutch Journal of 1911 or 1918) are assigned to the fifth century A. D. This image of Ganesha shows that Brahmanic culture flourished in Borneo for a long period. For further particulars about the types of Ganesha images reference may be made to H. Krishna Sastri's *South-Indian Images*, pp. 165-176, and T. A. Gopinath Rao's *Elements of Hindu Iconography*, Vol. I, Part I, pp. 35-67."

The discovery of this image created great interest in Sarawak. Thousands flocked to the Sarawak Museum to see it. The Museum attendants had the time of their lives seeing that the god disposed of all the offerings made to it.

The accompanying illustration is from an enlarged photograph by Mrs. F. F. Boulton, who tells me that she gave another one to the Sikhs in Kuching, at their request, for their Temple.

Notes.

The Malayan Badger.

Dr. W. Docters van Leeuwen, Director of the Botanical Gardens, Buitenzorg contributes the following interesting notes on the Malayan Badger in Java:—

Buitenzorg, 20th May, 1921.

“ With much interest I have read your article on the occurrence of the Malayan Badger in Borneo (Journ. Str. Br. Roy. Asiat. Soc. No. 83, 1921, pp. 142-146). This animal is very common in Java and I have seen it or smelt it on every mountain which I have visited. The lowest elevation at which I have seen this animal was 1000 feet on Mount Moeria in Java-central. The last time I saw it on Mount Pangerango, near Buitenzorg, was from an elevation of 4000 feet up to the summit, about 11,000 feet. There it is also common and very tame; in the vicinity of my mountain cabin it seeks the earthworms and insects under the thick moss-cover of the old crater valley. In the neighbourhood of our mountain laboratory at Tjibodas it is also very frequent and more than once we were awakened by the stink of this animal walking under our sleeping room.

“ It will interest you perhaps that in this forest there is a kind of fern, which has the same smell as the badger though not so strong, and which is named by the natives the “ pakoe sigoeng ”; its scientific name is *Didymochleena lunulata* Desv.

“ I have had some accidents meeting this animal but never have I felt any ill effect from the anal fluid though it is far from agreeable to be in contact with it. In some parts of Java, especially in the old sultanates it is said that a very weakened solution of the fluid is used as a perfume.”

Buitenzorg, 2nd June, 1921.

“ In the neighbourhood of Mount Goentoer near Garoet I had once built a small bamboo cabin, with walls of dried grass and about every evening a badger came and looked in one of my open rooms and every night as he walked near the cabin we were awakened by the smell. This stench he bears too, when not irritated, in his hairs, and also the path followed by this animal in the forest is recognisable by the stink. In the forest of Mount Pangerango I have seen the badger often in the first hours of the afternoon, but it is really a night-animal.”

Since describing in this Journal the two Bornean skins as a new subspecies, *Mydaus javanensis montanus*, I have examined a third imperfect skin from the Sarawak Museum. It was obtained from the Kalabits of the ulu Baram and almost certainly comes from the same locality as the other two. Unfortunately the Kalabits have made it up as a seat-mat for their own use and consequently cut it down considerably; only the back remains, the head, legs and tail having been cut off. It measures 19 inches by $10\frac{1}{2}$ at the widest part. A comparison of the whitish dorsal marking shows that it must have been similar in size to the other two. The white streak is 3 inches across at the widest, then narrows abruptly and breaks off completely for 3 inches before continuing as a very thin line for another 4 inches, after which it widens to the extent of 2 inches across the lumbar region.

The length of the skin from the widest part of the dorsal streak between the shoulders to the root of the tail is $16\frac{1}{2}$ to 17 inches in all three skins.

The skin representing the Type of this new subspecies has been deposited in the British Museum. The second and third skins remain in the Raffles Museum, Singapore, and the Sarawak Museum respectively. No others are as yet known.

J. C. MOULTON.

A Rail New to the Malay Peninsula.

While arranging and naming the collection of Bird skins which have accumulated in the Raffles Museum during the last thirty years, an interesting discovery by which another species is added to the list of Birds known to occur in the Malay Peninsula was made by Mrs. Horton, who has already done much valuable work on the bird collections of this Museum. Among the mass of unidentified material stored away was the skin of a Rail bearing the following label: "Kotta Tinggi, Johore. Dec. 18th 1892. Sex female." This skin proved to be that of Elwes' Crane, (*Porzana bicolor* Walden).

This Crane was first procured by Captain Elwes in the interior of Sikkim at an elevation of 5,000 feet, in September 1870. Godwin-Austen found it in rice-fields about 5,000 feet up in the Khasi Hills in the month of June. Hume says he is sure he saw this species below Hoondoong at a height of 3,500 feet. It was obtained later by Collingwood Ingram in 1906 in the Lichiang Valley, West Yunnan, South China.

The Ruddy Crane (*Limnobaenus fuscus*) which occurs regularly in the Malay Peninsula, is closely allied to and somewhat similar to Elwes' Crane but the latter may be easily distinguished by the grey colour of the head, neck and breast, the Ruddy Crane being uniformly rufous.

There is, however, a slight possibility of a mistake having been made in attaching the original label, as a former Curator of the Raffles Museum obtained several specimens of birds and insects from the Eastern Himalayas and the Johore label *may* have been tied in error to one of this collection. There is no evidence to support this theory, and considering the habits of Rails there is nothing at all surprising in the bird having been found in Johore. The Indian records were made in the summer and our specimen may have migrated here for the winter.

It would, of course, be more satisfactory if this record could be supported by the capture of another specimen in the Malay Peninsula.

J. C. MOULTON.

A Tiger at Sea.

Instances of Tigers swimming across wide rivers or narrow straits are common enough. Tigers are still found occasionally on the island of Singapore where they have arrived from Johore after a swim of one to two miles across the Straits. The following note however of a much longer swim is perhaps worthy of record.

Mr. G. O. Dorrity of Trengganu, to whom I am indebted for the information, obtained the story from an old Malay fisherman in Kelantan some eight years ago. The local fishing fleet was proceeding out to the fishing grounds one night from the coast of Kelantan when a dark object was observed moving about on the surface of the water. The position given was midway between the Perhentian Islands and the mainland, i.e. about five miles from the mainland; the total distance between the mainland and the nearest island of the group is eleven miles. On a closer inspection the object was discovered to be a full grown tiger and evidently in some distress. A *pukat* (seine-net) was thrown over it and the animal, entangled in the mesh, was towed behind a boat until drowned.

It seems impossible to credit this tiger with the deliberate intention of swimming out ten miles to a small group of islands which he could hardly see from the mainland. Probably he was accidentally swept out to sea when attempting perhaps to cross a river at the mouth.

J. C. MOULTON.

Jour. Straits Branch

Meteorite in Malacca Straits.

On the morning of September 11th about 6.15 a.m., as I was lying in a berth on S. S. "Klang" facing the sea I suddenly saw a large ball of light, of dazzling brightness falling from the sky. Almost simultaneously there was a loud report resembling the firing of a large gun, as the meteorite struck the sea.

It could not have been more than 300 feet away.

The master, Captain MacDonald, stated that it would have sunk the ship had it struck her.

This occurrence took place when we were about one hour out of Port Swettenham on the voyage from Singapore.

A. L. Hoors.

'Berkluat'—A Trengganu Custom.

The offence known as "Berkluat" is peculiar to the state of Trengganu alone in British Malaya. Should a man and woman be seen to exchange an affectionate glance, they may thereupon be arrested without warrant, charged with "Berkluat," and sentenced to as much as 3 months imprisonment. The giving of the "glad eye" is therefore a matter of some danger in Trengganu.

The local dignitaries, who are mostly of Arabic extraction are said to be opposed to the abolition of this charge, though it is a fruitful source of blackmail. As most of these magnates possess a plurality of wives, it is rather pedantic on their part to object to a little ogling between couples of humble origin.

Perhaps they have in mind

"Apa guna pasang pelita

"Kalau tiada dengan sumbohnya?

"Apa guna bermain mata

"Jikalau tiada dengan sunggohnya?"

A. L. Hoors.

Points of the Compass in Brunei Malay.

The Points of the Compass in Brunei Malay have been discussed by Major J. C. Moulton in this Journal No. 83, 1921, p. 75.

The Serang of the s. l. *Brunei* explained the use of the word *Utara* as meaning N. E. by the fact that Malays fix the points of the compass by the winds; *Musim Utara* is the general Malay expression for the N. E. monsoon during which they cannot go out fishing, but if the wind shifts a point north they can, so they have a definite name for this: *Traga*. And thus avoid confusion with the rightly dreaded *Utara*.

The coast of Borneo runs from S. W. to N. E., so a wind from the open sea i.e. *Angin Laut* would be a N. W. wind and a wind from the west would still be a sea wind *Barat Laut* i.e. from the western sea. The use of *Barat Tepat* for south west is probably a confusion of thought as such a wind would come straight (*tepat*) up the coast.

The other three winds are not sea winds; *Timor* the East is always definite; *Selatan* I don't think I ever heard used; the meaning given in Wilkinson is the wind from the side of the Straits not S. E.

Barat Daya for south might be explained by the meaning of *Daya*, treacherous, deceptive, as a wind partly off the shore would be.

F. W. DOUGLAS.

Kuala Lumpur 16/7/21.

A Note on the Tagals of Sarawak.

The Tagals of whom a few hundred have wandered down into Sarawak territory from British Borneo are a stockily built tribe whose looks and ornaments, tatooing and headress are very similiar to some Dayak tribes. They are renowned amongst surrounding Muruts and others as experts in the art of poisoning. On one occasion I took from a small cloth which was round the neck of a Tagal chief a small piece of wood bound round with rotan and showed it to a Murut chief who asked me as he examined it from whom I had taken it. A native officer standing by mentioned the name of the Tagal chief whereupon the Murut dropped it like a piece of hot coal and nothing would induce him to touch it again. According to several Muruts this small piece of wood was quite sufficient to give a man violent fever.

Jour. Straits Branch

The Tagals in Sarawak have a very curious form of amusement called "Ungakang." In the middle of their long house verandahs there is a hole about 15 feet by 20 feet let down into the floor with loose spring boards at the bottom into which the young men jump. Then they gradually work up a higher speed, jumping up and down, singing "sembila kun mahor" meaning in Malay "Baik baik kita jalan." When there are sufficient men on the boards and the singing has been going on a while the women dressed in their best jump on and with their hands on each others shoulders slowly lock-step round the jumping men whilst the swaying boards throw them up and down with every other step. This is kept up for hours on end and is a survival of a head dance.

They are very artistic; most of their doors are ornamented with drawings as also are their bamboo pipes, combs etc. Singing is a special forte and some of their chorus songs are very fine and tuneful, quite unlike those of surrounding tribes. They are tattooed they say to act as lights when their eyes are closed in death.

Some Tagals have a story that the origin of Man was from Monkeys and that at one time the people of the world were all male monkeys. Others say that originally the Sun laid three eggs, one white which was a Murut, one green, a Tagal and one Red.

The first man on earth according to many Tagals was set to work making the holes for the rivers to run down. He had seven children, the youngest of whom was drowned in the Runi which was the first river made. Before the holes were made for the rivers, when it rained the water came right up and drove the people on to the top of Mt. Mulok and it was once whilst all the animals and people were up there for a long time that they ran short of food. The other animals talked together and decided to eat the dogs, who, understanding what they said, were very angry and rushed in and bit them and that is why to this day the dog hunts other animals.

When a man dies they put in his mouth a string of beads. The idea is that when he reaches the top of the world and entrance to the dead man's country, he finds it guarded by a snake who demands that a man shall look for its excrement and eat it before he can pass. When therefore the man reached this he bites the beads which make a noise and the snake is hoodwinked and allows them through.

Like other Bornean natives they believe in birds (omens) but many of them only for the first two days of a journey or of work. They blame women for the beginning of head-hunting and blood feuds and like certain other tribes many of the women will not eat deer's flesh as they believe it to be the reincarnation of dead men. Their houses are very strongly built and much more carefully erected than those of the surrounding Muruts. The most favored earring holes are series pierced right round the ears both for men and women.

E. V. ANDREINI.

Some Notes on Oriental Dragonflies: the Genus *Macromia*.

BY F. F. LAIDLAW, M.A. (CANTAB.)

The following account is the result of a study of examples of some twelve of the Oriental species of the genus, that I am fortunate enough to have before me, apparently a greater number of species than was available to Martin in preparing the Selysian Catalogue of the *CORDULINAE*. Species of the genus are rather scarce in collections, and being at first sight often somewhat uniform in colouring and build, their discrimination is a little difficult.

Dr. Ris, who has the gift of illuminating the dark places of systematic Odonatology, has not very long ago defined a small group of species belonging to the genus (*Suppl. Entomol.* No. 5. pp. 65-70, 1916) using characters that are easily determined and of due importance. He has thereby paved the way for a further grouping of the Oriental, and especially of the Malayan species, such as I attempt here.

Employing characters similar to those made use of by Dr. Ris I arrange the Malayan species in groups, one of which is of course the group already defined by Dr. Ris. This grouping, unfortunately dependant in part on sexual characters, is I think tolerably natural, and should, with the aid of figures given, facilitate the determination of species. It is impossible to provide a satisfactory dichotomic table or key. I therefore give definitions of the groups, and under the heading of each group is added a short but I hope sufficient account of each of the species referred to that group. Fuller notes on the new species and remarks on some of the others, with text-figures, are appended.

The characters relied on for the defining of the three groups of species I note below have already been employed by Dr. Ris in his paper, and suggested by Martin in the Monograph as useful. These characters are: firstly the colouring of the post-clypeus, which may be yellow, or may agree with that of the rest of the front of the head in being reddish brown or dark-brown. Secondly the presence or absence of a *humeral* stripe on the synthorax; note that a *lateral* oblique stripe of yellow is present in all Oriental species of the genus. Thirdly the presence or absence of a flattened, pointed, triangular process on the dorsum of the tenth segment of the abdomen of the male.

Specific characters are: the colour pattern of the abdominal segments, the occurrence of metallic lustre on some of the more basal of those segments, the colouring of the costal nerve, (? occasionally variable), the number of ante- and post-nodal nerves

(shown by the "nodal indicator"); size, and lastly the shape of the anal appendages and of the genital structures of the second abdominal segment of the male.

Probably also the shape of the margin of the hind-wing of the male, between the membranule and the anal angle, is of some specific value.

As will be seen from the sequel, the total number of species of *Macromia* from the Orient is not less than eighteen; it will probably be increased considerably in the future. The *Macromias* are handsome, strong-flying insects that will repay careful study in the field, and the difficulty of capturing some of the species at any rate raises their pursuit almost to the dignity of a sport. Kennedy records (*Proc. U. S. Nat. Mus.* 49, p. 313, 1915) that he was compelled to use a shot-gun to obtain his first supply of specimens of the American *M. magnifica* MacL.

Since the publication of Kirby's Catalogue in 1890 the following are the important notices dealing with members of this genus from Indo-Malaya:—

1899. Krüger, L. *Stettin entomol. Zeit.* pp. 324-338.

1906. Martin, R. *Collect. Zool. Selys*, XVII *Cordulinae*.

1916. Ris, F. *Suppl. Entom.* No. 5, pp. 65-71 Taf. iii, figs. 1-4
Text-figs. 42-45.

References to other papers are given where necessary in the text.

I. Group of *M. westwoodi* Selys.

Segments 2-6 of abdomen unicoloured, all with more or less metallic lustre. Front of head uniformly dark brown, but the pyramidal processes of the frons metallic green or violet. Males with pointed triangular process on the dorsum of the tenth segment of the abdomen. Pterostigma small (2 mm. or less).

- a. A well-defined humeral band of yellow, incomplete above. Costal nerve with fine yellow line. ♂ Lower anal appendage about equal in length to upper pair. These latter are very slightly recurved apically, and have each a very small, almost obsolete extero-lateral tooth at about the middle of their length.

Length of hind-wing ♂ 46 mm. (♀ 50 mm. Selys).

M. westwoodi Selys.

Perak. Penang.

- a¹ Lower part of dorsum of synthorax brown, as it passes dorsalwards acquiring a metallic green lustre, but no definite humeral band present. Costal nerve black.

- b. ♂ Lower anal appendage almost a third as long again as upper pair, the latter with apices recurved,

and with a well-developed extero-lateral tooth on each at about its middle.

Length of hind-wing 40 mm. (♀ unknown).

M. cydippe n. sp.

Borneo. (Banka? Sumatra?)

- b*¹ ♂ Lower anal appendage about equal in length to upper pair, the latter with recurved apices, and with the extero-lateral tooth so reduced as to be scarcely discoverable.

Length of hind-wing ♂ 43 mm. ♀ 46 mm.

M. euterpe Laidlaw.

Borneo.

II. Group of *M. cincta* Ramb.

Segments 2-6 of abdomen black or brownish-black without metallic lustre. 2-3 at least with yellow markings on the dorsum. Front of head very dark brown, pyramids of frons black, slightly metallic. No definite humeral band on dorsum of synthorax. Costal nerve black. Males with pointed triangular process on dorsum of segment 10 of abdomen.

Pterostigma about 3 mm.

M. cincta Ramb. agg.

III. Group of *M. calliope* Ris (defined by Ris).

Thorax black, with rich metallic lustre, with a humeral band incomplete above. Frons black with metallic lustre, ante-clypeus black or dark brown, post-clypeus (except in one or two species) yellow. Costal nerve usually entirely black. Segments 2-6 of abdomen black (or in one or two species metallic), the second segment at least with yellow markings on the dorsum. ♂ without dorsal process on the tenth segment of the abdomen. In most species the upper anal appendages straight or incurved apically.

- a*. ♂ Post-clypeus dark brown, segments 2-6 of abdomen with metallic green lustre, unmarked save for a pair of small transverse spots on 2. Upper anal appendage with extero-lateral tooth near the apex, which is rather abruptly inflected. Lower appendage of about equal length. Distal third of genital hamule abruptly narrowed, slender, sickle-shaped. Hind-wing ♂ 34 mm. (♀ unknown).

M. corycia n. sp.

Borneo.

- a*¹ Post-clypeus pale yellow; segment 2 of abdomen with yellow ring, narrow dorsally and not covering the base of the segment, whilst 3-5 have small paired spots dorsally immediately in front of the transverse carina of each, (those on 4-5 very small). Segment 7 with yellow ring

occupying its basal third, 8 with small pair of basal dorsal spots. ♂ upper anal appendages slightly incurved apically, with extero-lateral tooth at commencement of distal third; lower appendage slightly shorter. Distal quarter of genital hamule abruptly narrowed, hook-shaped. Hind-wing ♂ 35 mm., ♀ 40 mm.

M. urania Ris.
Tonkin.

- a*² ♂ Post-clypeus pale yellow. Segment 2 of abdomen with yellow ring, narrow and not touching base of segment dorsally, 3 with minute yellow spot dorsally on either side of the middle line in front of the transverse carina. Upper anal appendages nearly straight, extero-lateral tooth at commencement of distal third. Lower appendage about equal in length. Genital hamule long and slender, almost straight.

Hind-wing ♂ 31.5 mm., ♀ 34 mm.

M. callisto n. sp.
Malay Peninsula.

- a*³ ♂ Post-clypeus black with small yellowish spots on the two small depressions immediately below the frons. ♀ Post-clypeus yellow. Basal yellow ring on segments 2 and 7, that on the second segment however is dark apically. That on the seventh covers a little more than the basal quarter of the segment. Segments 3-6 with paired dorsal lunules of orange-brown in the female, progressively smaller backwards, and minute on the sixth segment; in the male segments 4-6 entirely black, but in specimens examined by me the lunules are present on 4-5. Segment 8 entirely black. ♂ Upper appendages nearly straight. Extero-lateral tooth stout. Lower appendage a little longer. Distal two-thirds of genital hamule slender, sickle-shaped.

Hind-wing ♂ 37 mm., ♀ 40 mm.

M. calliope Ris.
Tonkin.

- a*⁴ ♂ Post-clypeus yellow. Basal yellow ring on segments 2-7, that on the second segment covering its basal half at least, that on the seventh about the basal third. Segments 3-6 with paired dorsal lunules immediately in front of the transverse carina, 8 with paired basal spots. ♂ Upper anal appendages nearly straight, stout extero-

lateral tooth, just beyond the middle of each, genital hamule slender, straighter than in the last species but otherwise rather similar.

Hind-wing ♂ 39 mm.

M. fraenata Martin (?)

Khasi Hills, Tonkin (Corea?)

In addition Dr. Ris allots to this group two other species, *M. chio* Ris. from Formosa, a large, very distinct species (♀ h. w. 47 mm.) known only from the female sex, characterized by the possession of large basal yellow markings on segments 3-6 extending to the transverse carina: and *M. amphigena* Selys, a large species from Japan (♂ h. w. 45 mm).

***Macromia westwoodi* Selys (Fig. 1.)**

1 ♂ Maxwell's Hill, Perak. (Raffles Museum, Singapore).

The specimen unfortunately lacks the head. I feel sure that it is the true male of this species, and that the sex has not hitherto been described, the males attributed to it by de Selys and Krüger belonging in my opinion rather to the next species or an allied form. The present specimen shows much less discrepancy in size with the type female as far as de Selys' measurements go, and the locality is of course a likely one.

Wings colourless, save for a slight tinge of yellow near the anal angle. This latter is rather rounded, and the anal margin of the wing between the membranule and the angle itself is deeply concave. Costal nerve marked with yellow. Nodal indicator $\frac{1}{11} \frac{4}{9} + \frac{1}{16} \frac{9}{1}$ Pterostigma 2.5 mm.

The yellow mark on the base of segment 7 of the abdomen occupies its basal quarter.

The sides of the first and second segments are brown in colour shading gradually into the metallic green of the dorsum. The dorsal process on segment 10 is small and lies near the base of the segment.

The extero-lateral tooth of the upper anal appendage is much reduced.

The genital lobe of the second segment carries a stiff brush-like bunch of hairs, directed forward, at the apex. The genital hamule is short, not extending to the apex of the lobe, and is comparatively broad.

Length of abdomen ♂ 45 mm + 2.75 mm. (♀ 50 mm. Selys).

***Macromia cydippe* n. sp. (Figs. 2-3).**

1 ♂ Lio Matu, Sarawak, Borneo, Oct. 1920. (coll J.C. Moulton)
The specimen is the Type.

With this male I think it probable that the ♂ from Banka referred to *M. westwoodi* by de Selys, and the specimens recorded from Sumatra under the same name, are conspecific.

Wings distinctly smoky especially at the apices. Pterostigma 2 mm. long. Nodal indicator $\frac{1}{10} \frac{1}{10} | \frac{1}{10} \frac{1}{10}$. Anal angle not acute. Margin between membranule and angle slightly concave.

The lateral yellow band of the synthorax is pale cream-yellow in colour and sharply defined. The yellow ring on the seventh segment of the abdomen occupies the basal fifth of the segment.

The lower anal appendage has a length of 2.8 mm. The upper pair are decidedly shorter, being barely 2 mm. long. Each has a well-developed extero-lateral tooth just before its middle, and the apex of each is recurved.

The genital lobe of the second segment is small, and the genital hamule is small and nearly straight, not unlike that figured by Ris for *M. terpsichore* Forster, though relatively smaller.

Length of abdomen 42.5 mm. + 2.8 mm.

♀ unknown.

Type in British Museum ex coll. Raffles Museum, Singapore.

Macromia euterpe Laidlaw.

M. euterpe Laidlaw (*Proc. Zool. Soc. London* 1915, pp. 26-29. Text-figs. 1, 2.) This species has the anal angle rounded, and margin of the wing between the membranule and the angle deeply concave as in *M. westwoodi*, in the male.

The dorsum of the second segment is also much more densely covered with hairs than in the two species of the group already noticed. The pterostigma is about 1.75 mm.* The genital lobe is very small, and the hamule is short stout and well curved.

Nodal indicator $\frac{1}{9} \frac{1}{11} | \frac{1}{9} \frac{1}{10}$.

I have before me the paratype ♂ from Mt. Kinabalu.

Two other species appear to fall into this group, viz, *M. terpsichore* Forster and *M. melpomene* Ris. Both are from N. Guinea. (See Ris in *Nova Guinea* IX, Zool. 3, pp. 494-497, figs. 13-17. and *idem*, *Nova Guinea* XIII Zool. 2. pp. 84-85, figs. 2-3.)

Both these species differ from the more western members of the group in having the pterostigma exceedingly small, only 1. mm. long.

Macromia cincta Ramb. (? local race) (Fig. 4).

1 ♂. Sarawak, Borneo. Coll. J. C. Moulton.

The specimen agrees in the main with de Selys' account of this species. I have not been able to see Rambur's original descrip-

*Not 2.5 mm. as originally stated (Laidlaw *loc. cit.*)

tion. It shows some differences in detail which may be characteristic of a local race of the species, or may be due to age and loss of markings in preservation.

The specimen before me is fully adult.

Wings almost colourless save for a very small dark brown mark at their bases, extending from the costa to the median vein, and in the hind-wing reaching distally nearly as far as the first ante-nodal cross vein, in the fore-wing it is only half as extensive. Pterostigma 3 mm. long, black. Costal nerve black. Membranule greyish-white, anal angle very acute, a slight yellow tinge about the angle.

Nodal indicator $\frac{1}{10} \frac{1}{11} | \frac{1}{12} \frac{1}{10}$. Length of wing 46 mm.

Front of head uniformly blackish-brown with a slight lustre which is more marked on the upper part of the frons.

Synthorax dark-brown with green and violet reflex. No humeral stripe. Lateral stripe, covering the stigma pale, buff-yellow. The brown ground colour deepens to black immediately on either side of this stripe, and is here more richly metallic. There is also a small lateral ventral mark of buff-yellow on the metepimeron not quite terminal.

Abdomen dorsally black, or brownish-black: dark brown ventrally and on the sides of the first and second segment. The second segment has transverse band of a creamy yellow colour running across the dorsum from one auricle to the other not touching the base or apex of the segment.

The third segment has a dorsal spot of the same colour immediately in front of the transverse carina, divided into two by the longitudinal median carina. Below it is creamy-white.

Segments 4-5 have small paired lunules similarly placed but of a darker yellow, whilst 6 is entirely black.

The seventh segment has a small basal yellow mark on the dorsum occupying only about one-eighth of the length of the segment. The remaining segments entirely black.

Anal appendages very dark brown, exactly corresponding to de Selys' description.

The genital lobe of the second segment is small. The hamules are slender, boldly recurved apically so as to be hook-like.

The tenth segment of the abdomen has a sharply pointed dorsal prominence.

I believe that *M. borneensis* Kruger and *M. pyramidalis* Martin, are probably members of this group. I have not seen examples of either.

As a special feature (possibly found in all the males of this group, as I have seen it in *cincta* and in no other Oriental groups) I would call attention to a curious thickening of a small part of

the ventral margin of the tergite, close to the anterior end of the segment. This thickening of the margin is about a millimetre in length and is beset with a few very stiff short hairs. It is quite a definite structural feature and possibly serves some purpose in connection with the genital structures of the segment.

Cincta and its allies seem to form a distinct group of rather large species, characterized not only by peculiarities of coloration but also by the relative large size of the pterostigma, and by certain secondary sexual characters. The group appears to be confined to Malaya and Indo-China.

***Macromia corycia* n. sp. (Fig. 5.)**

1 ♂. Ulu Baram, Sarawak, Borneo 3. xi. 20., coll. J. C. Moulton. The specimen is the Type.

Wings colourless. Pterostigma 2 mm. black. Costal nerve black. Nodal indicator $\frac{6}{10} \frac{1.5}{10} + \frac{1.5}{9} \frac{6}{10}$

Upper lip black, shining, almost metallic, ante- and post-clypeus very dark brown, the latter with the two small pits immediately below the frons, coloured a little paler. Frons entirely metallic violet. Synthorax brilliant metallic green, the yellow markings rather of a buff-colour. Abdomen slender, segments 2 and 7-9 moderately inflated. Small transverse marks on the dorsum of the second segment, at about its middle, of pale yellow. Sides of the segment brown passing indefinitely into green above.

Basal mark on 7 orange-yellow, occupying rather less than the basal quarter of the segment. Segments 7-10 black.

Anal appendages blackish-brown, upper pair 2 mm. long: lower appendage a shade longer. The upper pair are very similar in shape to those figured by Ris (*loc. cit.* Fig. 42.) for his species *M. urania*.

Type specimen in British Museum ex coll. Raffles Museum, Singapore.

This beautiful little species is readily distinguished from its allies by the dark colouring of the post-clypeus, and by the absence of any markings on the abdomen save on the second and seventh segments. Its nearest relations would seem to be *M. urania* Ris and *M. callisto* n. sp.

***Macromia callisto* n. sp. (Fig. 6.)**

Macromia gerstaeckeri Laidlaw (nec Kruger) *Proc. Zool. Soc. London* 1902 pp. 76-77.

1 ♂ 1 ♀ Kuala Aring, Kelantan, Malay States, coll. F. F. Laidlaw (Skeat. Exp.) Types ♂ and ♀ in Mus. Comp. Anat. Cambridge.

Though bearing a close resemblance to *M. gerstaeckeri* Kruger this species differs in that, whilst Kruger's species has a prominence on the dorsum of the tenth segment of the male, *callisto* is entirely without this structure.

Kruger's account of his species *gerstaeckeri* is sufficiently definite in this respect. He says of the tenth segment of the abdomen that it is "*vorn abgeschrägt und ziemlich tief gefurcht, der Rücken erhebt sich nach hinten zu einem stumpfen Höcker.*"

It is certain that this description cannot apply to *M. callisto*, and as I believe the character to be of importance I feel justified, after having had an opportunity of making a fresh study of my specimen, in giving it a name. It differs also a little in size being distinctly smaller than *gerstaeckeri*; it is in fact the smallest of the Oriental species of the genus. Other differences are noted below.

♂ (specimen rather immature) wings slightly and evenly tinged with brown. Pterostigma 1.75 mm. brown. Costal nerve black. Nodal indicator $\frac{5}{11} \frac{1}{11} | \frac{1}{11} \frac{5}{7}$. The number of post-nodals in the hind-wings is smaller relatively to the number of ante-nodals than in the case of any of the other species I have examined. The anal angle is not very acute, and the anal margin of the wing, between the grey membranule and the anal angle, is straight. (*M. gerstaeckeri*: "*Der Analrand der Hinterflügel ist zwischen der weislichen Membranula und der Analecke dadurch ausgebuchtet, dass die Randader des 2-zelligen Analdreiecks hier wellig vorspringt.*")

Abdomen dark brown (probably black in mature examples, and may have some metallic lustre). The second segment has a ring of yellow, not reaching its proximal border. The third has two minute spots on either side of the mid-dorsal line immediately in front of the transverse carina.

Segment 7 has a basal yellow ring, occupying the proximal fifth of the segment.

Colouring of *M. gerstaeckeri* similar but the mark on the second segment is broken into dorsal and lateral parts, and there is a basal lateral mark on the eighth segment.

Macromia fraenata Martin (?) (Fig. 7.)

1 ♂ Khasi Hills (purchased, no other data). In my collection.

Identity doubtful. Agrees fairly well with Martin's description so far as colouring goes, but not with his coloured figure, which again is not altogether in agreement with his account of the species. Further the anal appendages are unlike those figured in certain respects. But as his figure here also does not altogether fit his description, I think it wise to refer the specimen here provisionally, noting further a wide difference in habitat. *Fraenata* is recorded from Tonkin and Corea, but I cannot help thinking the latter locality unlikely.

Wings slightly tinged with yellow brown at the extreme bases. Pterostigma 2 mm. Nodal indicator $\frac{1}{10} \frac{1}{10} | \frac{1}{10} \frac{1}{10}$ Costal nerve with brownish-yellow line.

Anal angle not acute. Margin between distal end of membranule and angle slightly concave. Membranule grey-brown. Lobes of lower lip yellow, marked with brown medially.

Upper lip black, with transverse bar of yellow at its base. Ante-clypeus black, post-clypeus yellow. Frons metallic violet. Synthorax metallic green or violet, humeral stripe extending rather more than half-way up the dorsum. Lateral yellow stripe over the stigma broad (1.75 mm.)

Abdomen, segment 1, basally brown passing gradually to black distally, both on the dorsum and at the sides. Second segment yellowish-brown as far as the transverse carina, the yellow extends beyond this mid-dorsally and mid-laterally almost to the apex of the segment. (In this respect the specimen differs both from Martin's coloured figure and description).

Segments 3-6 with paired yellowish-brown lunules on the dorsum of each segment, immediately in front of the transverse carina progressively smaller from before backwards. (Here the specimen resembles Martin's coloured figure but differs from his description). Segment 7 with a basal yellowish-brown ring, covering almost the basal third of the segment, prolonged mid-dorsally to a point at about the middle of the segment. The eighth segment has a pair of basal dorsal lunules.

In addition the third segment has on either side a small basal lateral spot, and the eighth segment has a lateral ventral streak of the same colour basally. Abdomen otherwise black. Segments 2-3 and 7-8 moderately dilated.

Anal appendages black, upper pair straight, apically acuminate. Each carries an extero-lateral tooth a little beyond its middle. Lower appendage sub-equal, with very slight upward curve. Genital lobe of second segment small, pointed, directed backwards. Genital hamule, slender, tapering irregularly, nearly straight, directed backwards.

The specimen differs lastly from Martin's coloured figure of *fraenata* and resembles his description in having the frons entirely black, with metallic reflex.

Length of abdomen 47 mm. + 2.5 mm., of hind-wing 39 mm.

Macromia urania Ris

I possess a single male of this species, from Tonkin, acquired many years ago through Dr. F. Förster.

It agrees closely in all respects with Dr. Ris' account of the Type.

Nodal indicator $\frac{7}{8} \frac{11}{12} | \frac{11}{12} \frac{6}{6}$

Macromia callopo Ris

2 ♂♂ 1 ♀ Tonkin per Dr. F. Förster (The female is the allotype).

The males agree exactly with Ris' description of the Type except that both have quite definite lunules on segments 4-5 of the abdomen, in each segment immediately in front of the transverse carina. This is a character which may well depend on the state of preservation, and even on the age of the individual; I do not regard it as being of much importance. Both males are in good condition, and appear fully mature.

The female is distinctly larger. The post-clypeus is of a dull yellow colour, except immediately above the ante-clypeus, where it is narrowly lined with black. The synthorax resembles that of the male but the yellow colouring is duller than in the other sex. The abdomen is marked as in the male, but the sixth segment (like the fourth and fifth) has a pair of lunules in front of the transverse carina. In this case they are very small. The eighth segment lacks the ventral lateral yellow marks found in the male.

Nodal indicator $\frac{18}{11} \frac{19}{13} | \frac{18}{13} \frac{18}{11}$. Length of pterostigma, 2.4 mm., of hind-wing 11 mm., of abdomen 47.5 mm.

My specimens are without any yellow line on the costal nerve.

In addition to the fore-going I have been able to examine specimens of *M. moorei* Selys, *M. cingulata* Ramb. and of *M. flavicincta* Selys, from India.

There remain to be noted the following species from Malaya of which I have not seen examples:—

M. fumata Kruger. Front of head unicolourous, no humeral stripe on synthorax, no spine on dorsum of tenth segment of male. Described from Java, apparently related to *M. moorei*.

M. gerstaeckeri Kruger. Post-clypeus yellow, a humeral stripe on the synthorax, a spine on the tenth segment of the male, Java.

M. septima Martin is from Tonkin; not sufficiently characterized.

[I have seen examples of the larvae of *M. flavicincta* Selys, from India; they do not appear to differ except in detail from those of American species, and certainly do not approach those of the genus *Azuma* (*Epophthalmia*)].

Thus one can now give the following as the list of Bornean species (cf. Laidlaw *Proc. Zool. Soc. Lond.* 1920. p. 318)

M. cincta Ramb. (forma).

M. cydippe n. sp.

M. corycia n. sp.

M. euterpe Laidlaw

and with some doubt,

M. borneensis Kruger

M. westwoodi Selys

M. gerstaeckeri Kruger.

Whilst for the Malay Peninsula I can record only—

M. westwoodi Selys and *M. callisto* n. sp.

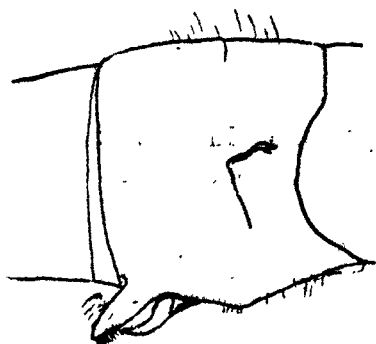


Fig. 1. Lateral view of second abdominal segment of *M. westwoodi* Selys ♂.

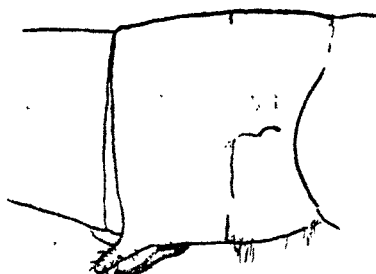


Fig. 2. Lateral view of second abdominal segment of *M. cydippe* n. sp. ♂.



Fig 3. Apex of abdomen of *M. cydippe* n. sp. ♂. a indicates the thickening of the margin seen from the side.

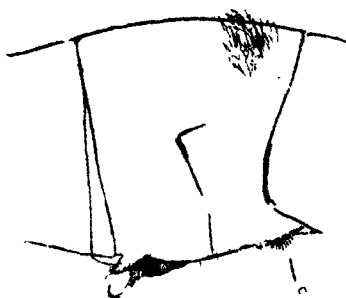


Fig. 4. Second segment of abdomen of *M. cincta* Ramb. ♂ from the side.



Fig. 5. Genital structures of second segment of abdomen of *M. corycia* n. sp. ♂. lateral view (somewhat distorted by pressure).



Fig. 6. Lateral view of genital structures of second segment of abdomen of *M. callisto* ♂. n. sp.



Fig. 7. Lateral view of genital structures of second abdominal segment of *M. fraenata* Mart. in (?) ♂.

Genitalia of Malaysian Odonata.

Protective Devices by Lycaenid Butterflies Against the Attacks of Lizards and Birds.

By C. L. COLLENETTE.

Among the subfamilies composing the LYCAENIDAE, commonly called the "blues," there are several which show a conspicuous eye-spot on the margin of the underside of the hind wing, coupled with a pair of tails, or often two pairs of tails, of varying length and thickness.

When the butterfly is at rest with wings closed, the tails are in many cases crossed the one over the other and kept in motion by an irregular rotatory movement of the hind wings. In other species the tails are long and fragile and are stirred by any breeze which is blowing. Again in other species the tails are short or absent but the eye-spots conspicuous. The wings are in some cases slightly separated, which throws a shadow between, giving an appearance of breadth when viewed from behind.

This device has been generally attributed to an imitation, perfected by natural selection, of the head or in many cases the head and antennae, the enemy being led to attack the brittle hind wings, which break and allow the butterfly to escape. This has been noted by many writers and is usually referred to as being a protection against insectivorous birds, although other enemies are frequently mentioned. It would appear, however, that in Malaya the device is directed not so much against birds as against wingless foes, chief among these being lizards.

The device of eye-spots and tails is not shown in many families of Malayan butterflies, and in no other is it brought to such a state of perfection.

Many species of Lycaenids, in contradistinction to the majority of butterflies, pass their lives close to the ground rather than at the tops of the trees. When disturbed, they rely on a short flight of a few yards and a "disappearance" by alighting suddenly on a leaf, when their closed wings render them inconspicuous. On a number of occasions I have followed up some of the commoner Lycaenids, putting them to flight and watching their actions, and on no single occasion has the butterfly alighted out of reach of my net, the usual height being 4 ft. to 6 ft. It therefore follows that enemies against which these insects must protect themselves hunt in bushes as well as in trees.

Birds are not common in the lower depths of the jungle, and Lycaenids inhabiting paths shut in by trees would be largely free from their attentions. Lizards, however, would appear to be quite as common at low elevations as among the tree tops.

The majority of lizards appear to catch their prey by the use of sight only. They approach, often from a considerable distance, at a fairly rapid rate, ending with a cautious "one foot at a time" advance, and a final swift grab at the insect.

A lizard would in most instances approach the insect from a branch, eventually climbing out from the base of the leaf on which it had settled. A bird would either catch a butterfly in flight, (unlikely in the case of the Lycaenids), or would make a quick peck at one which settled near to its perch. It does not appear possible that a bird could make a sufficiently quiet approach to stalk a Lycaenid successfully.

As the result of a number of observations, I find that some species of Lycaenids show a certain amount of discrimination in settling. They choose an exposed position rather than one among the leaves and usually the upper side of the leaf. The position is generally near the centre of the leaf, and the head of the butterfly in perhaps 90% of cases is lower than the tail. The point of the average leaf being lower than the fixed end, it follows that the butterfly presents its protective apparatus to the end of the leaf which is attached to the branch. This appears to indicate that the dangers to be avoided come from the bush rather than from the air.

I have never seen a jungle lizard in the act of catching a butterfly. However, the common Chi-chah of the houses (*Hemidactylus frenatus*), although principally a night feeder, offers an opportunity for experiment. I have on several occasions liberated Lycaenids in a room at night, but on account of the jolting received on the way home or perhaps the absence of daylight, the butterfly generally flutters to a wall and remains absolutely still, without any rotation of the wings. Chi-chahs as a rule take no interest in an insect which they do not see in motion, and if the butterfly is disturbed with a stick, the Chi-chahs usually take fright and refuse to feed.

In Penang, in January 1921, I liberated 17 Lycaenids. There were several other insects in the room, attracted by the light and the Chi-chahs had already dined and were not very active. Three of the butterflies were attacked. One was taken by the head and eaten. Two were attacked from the tail, but in both cases the snap missed the butterfly entirely and it escaped. It is difficult to make this experiment in Singapore, as suitable butterflies are not very common.

The proportion of Lycaenids showing this protective device, which are deficient of part of the hind wings, is relatively large, and in worn specimens which have been flying for some days, might be put as high as 10%. The broken portion generally resembles the rounded shape of a lizard's mouth rather than the sharp bill of a bird, and it can be demonstrated with forceps that the wings will fracture where gripped, and not naturally with a rounded shape.

It appears to me that the Lycaenids showing this device are protecting themselves against lizards rather than against birds, and it would be interesting if observations on the subject could be collected.

Recent Books on Malay.

Risalat Hoekoem Kanoen ja-itoe Oendang-Oendang Melaka edited by Dr. Ph. S. van Ronkel (Brill, Leiden, 1919). This is an authoritative text of the Malay Laws of Malacca, of which an abstract is given in Newbold's history of Malacca (Vol. II pp. 231 *et seq.*). It is particularly valuable because Malay "Codes" deserve more comparative study than they have hitherto received and especially comparison with such Indian "Codes" as are to be found, for example in the *Ain-i Akhbar* and *Tarikh-i Tahiri*.

Maleisch Woordenboek (Maleisch-Nederlandsch and Nederlandsch-Maleisch) by Dr. Ph. S. van Ronkel (Gouda, 1918). This is an excellent little dictionary, which the author modestly describes as the first dictionary printed in the Dutch official spelling, though it has many other good points such as scholarly accuracy and arrangement to recommend it. It will be to Dutch scholars what Wilkinson's and Winstedt's abridged dictionaries are to us.

Supplement-Catalogus der Maleische en Minangkabausche Handschriften in de Leidsche Universiteits-Bibliotheek by Dr. Ph. S. van Ronkel (Leiden 1921). This is a supplement (316 pp.) to Dr. Juynboll's well-known Catalogus of the Leyden Library (1899) and is worthy to stand beside it and van Ronkel's own Catalogue of Malay MSS. in the Batavian Society's Library. Many of the new MSS. here catalogued came from Ophuijsen's and Snouck Hurgronje's collection. Two MSS. of the *Ht. Bayan Budiman* are here recorded and one of the *Puspa Wiraja*, of which Dr. Winstedt (Journal 83, p. 96) knew only one MS. There are a number of valuable works on Islam and mysticism in the Snouck Hurgronje collection. The book will be of incalculable service to all serious students of Malay.

Wir Menschen der indonesischen Erde by Renward Brandstetter (Luzern). This comparison of the "souls" of two peoples, the Indonesian and the Indogermanic is a sequel to the author's valuable studies of Indonesian philology, familiar to English readers from Mr. C. O. Blagden's translations of several of the best known.

Pantoen Mēlajoe issued by the *Balai Poestaka* (Weltevreden, 1920). This is a fine collection of Malay quatrains, the Dutch counterpart of the book published by Messrs Wilkinson and Winstedt, now out of print. The collection will be of value for comparative purposes, especially for comparison with the Peninsular collection just mentioned.

Kitab Loghat Mēlayu by R. O. Winstedt D. Litt. and Ibrahim bin Dato' Muda, Linggi (Singapore, 1921). A dictionary in Malay for Malays, the first that has appeared in the Peninsula

since the old *Kamus Mahmudiah*, long since out of date. It is one of the series of Dr. Winstedt's works, prepared for the use of vernacular schools and colleges. It has been favorably reviewed by Mr. C. O. Blagden in our parent Journal.

Kitab Tawarikh Melayu, third edition by R. O. Winstedt, D. Litt. (Singapore 1921). This is a revised edition of a Malay history for Malays, which has excited much interest in the vernacular press.

Dictionary of Colloquial Malay (Malay-English and English-Malay) by R. O. Winstedt (Singapore 1920). This is the first concise colloquial dictionary of Malay by an English scholar and is companion to the author's "Colloquial Malay," of which a new edition appeared in 1920. Mr. Blagden has reviewed it in our parent Journal (October, 1921).

An Abridged Malay-English Dictionary (Romanised) by R. J. Wilkinson C.M.G., (Singapore 1919). A second and revised edition of a book which has been in the hands of all English students of the language since 1908. There "will be found a fair sprinkling of new words, a great number of closer definitions of meaning and a few corrections."

Misa Melayu with introduction and notes and edited by R. O. Winstedt (Singapore 1919). Vol. 15 of the Malay Literature Series, published by the Methodist Publishing House. It is an 18th century history of Perak and it is surprising that no text of such an interesting Malay historical work has hitherto appeared. Not only does it throw light on Malay life of the period but also on Perak's relations with the Dutch. Dr. Winstedt's text is based on three MSS. and there is another at the Hague.

Hikayat Bayan Budiman atau Chërîta Khojah Maimun edited with introduction and notes by R. O. Winstedt, D. Litt. Oxon. (Singapore 1920). This is vol. 16 of the Malay Literature Series and is the first complete text of the Malay version of the Persian *Tutinameh*, known in England as "Tales of a Parrot." Dr. Winstedt's text is based primarily on two MSS. of the tale in Raffles Library, Singapore. He also prints the oldest MS. of the Malay version, the fragment now in the Bodleian Library, which belonged formerly to Edward Pococke and dates from about 1600 A.D. This volume should interest many Oriental scholars.

A History of the Peninsular Malays with chapters on Perak and Selangor by R. J. Wilkinson C.M.G., (Singapore 1920). This is a revised and enlarged edition of "History, Part I," printed in 1908 in "Papers on Malay Subjects." "Research has added to our knowledge of early Malay history and the last four chapters embody hitherto unpublished results of original study." Especially interesting is the chapter on the murder of Mr. J. W. Birch and the events leading to the Perak war. Mr. C. O. Blagden

has drawn attention to some inaccuracies and criticized the author's failure to give references in our parent Journal (*J. R. A. S. October 1921*).

Johol, Inas, Ulu Muar, Jempul, Gunong Pasir and Terachi: their History and Constitution by J. E. Nathan and R. O. Winstedt (1920). This is the last but one of the second series of "Papers on Malay Subjects," which owed their inspiration to Mr. Wilkinson originally. This volume gives the latest theory as to which States composed the ancient Negri Sembilan. It also gives much information invaluable to government officers stationed in Negri Sembilan to-day. This book also Mr. Blagden has reviewed.

Perak Malay by C. C. Brown (Calcutta 1921, published for the Committee for Malay Studies, Kuala Lumpur). This is the latest volume in the Second Series of "Papers on Malay Subjects." It is without question the most valuable and scholarly study of any Peninsular dialect that has yet appeared. It is to be hoped that there may be found students to write similar brochures, say, on the dialects of Kedah, Kelantan, Trengganu and Negri Sembilan. One of the dialogues was written by H. H. the Sultan of Perak, and the Raja di-Hilir (Raja Chulan) assisted the author to read the proofs. The 29 dialogues in the Perak River vernacular are prefaced by a scholarly introduction. "To Lambok (p. 68) is referred to, if my memory serves me, in "Notes and Queries" of this Society: he was a not very remote Kinta chief and will be found in Dr. Winstedt's "Perak Pedigrees."

