

IV. PROGRESS IN MALESIAN BOTANY

(continued from page 14)

Algae

Mr. N. GAPAS (PNH) has made a survey of the phytoplankton of Aklan Bay, the Philippines.

Dr. R.J. KING with Mr. C.F. PUTTOCK (Univ. NSW) has finished a complete revision of the *Bostrychioideae* (*Rhodomelaceae*) on a worldwide basis which has been accepted for publication in the Austr. Syst. Bot.

Lichens

Mr. A. APTROOT (U) under the guidance of Dr. S.R. GRADSTEIN will try to elucidate the taxonomy and phylogeny of the so-called pyrenocarpous micro-lichens. Special attention will be paid to the ultrastructure of the spores and sporocarps, as there is the impression that in this way an insight will be gained in the natural relationships with non-lichenized fungi.

Bryophytes

Mr. A.D.H. MOHAMAD (UKMB) has just completed a preliminary survey of the *mosses* of the National Park in Pahang, and the Bangi Forest Reserve, Selangor, listing a total of 86 and 52 species, respectively.

Dr. R.M. DEL ROSARIO (PNH) has written up the *Hepaticae* of the Cordillera Central Luzon. He has also published a Survey of the Philippine *bryophytes* for antibiotics. 136 species were tested, of which not less than 88% showed varied degrees and ranges of possible activity.

Dr. B. C. TAN (PNH, NY) is studying Philippine *Sematophyllaceae* with Dr. W. BUCK (NY).

Pteridophytes

Dr. A. A. BIDIN (UKMB) continued to work on the fern flora of Pulau Langkawi, Kedah. He also covered the fern flora of Pulau Aur, Johor (near Tioman Isl.) and the Crocker Range, Sabah.

Dr. R. E. HOLTUM (K) has completed an account of the genera allied to *Tectaria* (as he understands them, i.e. excl. *Dryopteris* and related genera); publication awaits the completion of the illustrations by Mr. P. J. EDWARDS. He has also completed a study of the species known from the islands of the Pacific Ocean to be published after the Flora Malesiana treatment. This, he says, will be his last attempt at fern monographs. We all thank him for the monumental contributions to the various fields in Malesian botany for which he has become so famous.

Dr. B. S. PARRIS (K) progressed slowly on a documentation of scale and hair types in *Grammitidaceae*. Accounts and illustrations for 31 Malesian species have been prepared for the *Icones Plantarum*.

Dr. G. YATSKIEVYCH (MO) has nearly completed a revision of *Phanerophlebia* (*Dryopteridaceae*).

Angiosperms

Annonaceae — Mr. E. VAN DER HEIJDEN (L) started a revision of *Mezzettia*.

Dr. P. J. A. KEBLER (L) is revising *Alphonsea* and *Platymitra*.

Dr. A. M. LATIFF (UKMB) in collaboration with Mr. K. M. SALLEH (UKMS) has studied *Woodiellantha* and *Desmos* in Malesia.

Araceae — Dr. W. L. A. HETTERSCHEID (Vaste Keuringscommissie, Linnaeuslaan 2a, Aalsmeer, The Netherlands) has started a revision of *Amorphophallus*.

Araliaceae — Dr. D. G. FRODIN (PH) has nearly finished his research on the *Schefflera* of the Philippines.

Dr. P. P. LOWRY (MO) has revised the family for the Flore de la Nouvelle-Calédonie et Dépendances.

Asclepiadaceae — Mr. M. A. RAHMAN (ABD) is studying the family for the Flora of Bangladesh for his Ph.D., looking also at Malesian material.

Casuarinaceae — Drs. L. A. S. JOHNSON and K. WILSON (NSW) are preparing an account of the family for the Flore de la Nouvelle-Calédonie et Dépendances.

Celastraceae — Ms. I. MÜLLER (Z) has started a study of the New Caledonian species.

Cunoniaceae — The study of the New Caledonian species was continued by Dr. R. D. HOOGLAND (P). During a field trip in November/December 1988 he was able to make observations on the ornithophily of *Geissois* spp. and *Cunonia macrophylla*.

Cyperaceae — A database on all the genera of the world is being prepared by J. BRUHL, Taxonomy Lab., Research School of Biological Sciences, A.N.U., Canberra (A.C.T.), Australia. It will be an interactive key under the DELTA system, a powerful program in

MS-DOS, and is expected to be available early 1989. For more information about DELTA write to Dr. L. WATSON at the above address. A newsletter about DELTA is published by Dr. R.D. WEBSTER, SBM & NL, Bldg. 265, BARC-East, Beltsville (MD) 20705, U.S.A.

Dilleniaceae — Mr. J.M. VEILLON (P) has completed a revision for the Flore de la Nouvelle-Calédonie et Dépendances.

Dipterocarpaceae — Ms. A. SULAIMAN (UCNW, KEP) studies Peninsular Malayan *Shorea*.

Ericaceae — Dr. P.F. STEVENS (A) is keeping current with *Dimorphanthera* and *Vaccinium* and hopes to have published a paper with 10 new taxa early in 1989.

Euphorbiaceae — Mr. O. BOJO (SAR) was studying *Baccaurea*.

The treatment for the Flore de la Nouvelle-Calédonie et Dépendances of *Phyllanthoidae*, Part 2 by Dr. G.P. MCPHERSON (MO), and *Phyllanthus* by Dr. M. SCHMID (P) is with the Editor. Publication is expected in 1989.

Fagaceae — Dr. T. SMITINAND (BKF) has revised *Castanopsis* for the Flore du Cambodge, Laos, Vietnam and the Flora of Thailand during a visit to P.

Goodeniaceae — The revision for the Flore de la Nouvelle-Calédonie et Dépendances by Ms. I. MÜLLER (Z) is in its final stages.

Gramineae — Dr. S. DRANSFIELD (K) is continuing her studies on *Dinochloa* and *Schizostachyum*.

Dr. CHANG-SHENG KUOH (Tainan, Taiwan) will spend a year at L to study the grasses for the second edition of the Flora of Taiwan under the guidance of Dr. J.F. VELDKAMP. He started with a revision of *Microstegium*.

Mr. M.S.M. SOSEF (L, now WAG) with the aid of the computer programs CAFCA and PAUP studied the relationships of about 50 species in the genera of the *Rottboellia/Mnesithea* alliance. As was to be expected the results in places contradict the present classification, but no useful alternatives were offered.

Dr. J.F. VELDKAMP (L) hopes to finish a treatment of *Sporobolus* for Malesia if editing of the Flora Malesiana Bulletin lets him.

Heliconiaceae — see *Musaceae*.

Leguminosae — Two fascicles are expected to finish the treatment for the the Flore du Cambodge, Laos, Vietnam: one by dr. H. OHASHI (TUS) on *Desmodium*, and by Dr. P.D. PHON (P) on its related genera, the other by Dr. R. GEESINK (L) treating the *Millettieae*, and by Dr. H.H. PHAM (P) for the *Dalbergieae*.

Ms. N.I. AGUILAR (CAHUP) is preparing a Ph.D. thesis for the University of Tokyo, which will contain a survey of the taxa published after Merrill's Enumerations of 1910 and 1923, and nodulation in Philippine species.

Dr. T. FUJII (Forestry and Forest Products Research Institute, Tsukuba, Japan) studied the systematic and ecological wood anatomy of the *Sophora*-group during a year's visit from 1987 to 1988 to the Rijksherbarium, Leiden.

Dr. DING HOU (L) finished his revision of *Crudia* and started on the Malesian species of *Sindora*.

Dr. F. H. IBRAHIM (UPMS) has completed her Ph.D. thesis on *Ormosia* and *Sophora* at Reading University under the guidance of dr. D. M. MOORE.

Dr. K. LARSEN and Ms. S. LARSEN (AAU) continued to study *Bauhinia* for the Flora Malesiana.

Loranthaceae — Dr. B. A. BARLOW (CANB) is preparing a revision for the Flore de la Nouvelle-Calédonie et Dépendances.

Melastomataceae — Dr. C. HANSEN (C) continues his revision of the Asian taxa, contributing also to the the Flore du Cambodge, Laos, Viêtnam, and the Flora of Thailand.

Ms. H. MENTINK (L) continued her studies on the systematic leaf anatomy on a generic basis. The data will be incorporated in the *Myrtales* volume of the second edition of 'Anatomy of the Dicotyledons', edited in the U.K. by Messrs. METCALFE, CUTLER, and GREGORY.

Menispermaceae — Mr. E. H. MANDIA (PNH) and Dr. C. E. RIDSDALE (L) prepared a chapter on *Arcangelisia flava* for a forthcoming issue by PROSEA.

Moraceae — Dr. C. W. LEK (NSW) has finished a manuscript on the family for the Flora of Australia.

Musaceae — Dr. J. KRESS (US) is revising *Heliconia* for the Pacific area.

Myristicaceae — Dr. W. J. J. O. DE WILDE (L) continued his studies on *Myristica* in New Guinea.

Myrsinaceae — Dr. T. C. WHITMORE (OXF) studied *Tapeinosperma* in K.

Myrtaceae — The treatment of the *Leptospermoideae* for the Flore de la Nouvelle-Calédonie et Dépendances by Dr. J. W. DAWSON is well advanced.

Nepenthaceae — Mr. H. A. JUMAAT (ABD) is studying *Nepenthes* for Borneo. Mr. J. R. TURNBULL (OTT) will revise the family for the Flora Malesiana.

Oleaceae — The wood anatomical survey of all the genera has been completed and published (BAAS et al., 1988, see Bibliography). There is very strong wood anatomical support for the recognition of the subfamily *Oleoideae*, in agreement with flavonoid chemistry and allopolyploidy in the subfamily. Only *Myxopyrum* seems out of place. Wood anatomical discontinuity between *Chionanthus* s. s. and the species previously treated under *Linociera* is so great that a reinstatement of the latter seems justified.

Orchidaceae — Ms. M. J. ERIKS (L) started a revision of *Epiblastus*. Especially the New Guinea taxa are hard to disentangle.

Ms. H. J. VAN SCHEINDELEN (L) started a revision of the broad-leaved species of *Bromheadia*. At first sight there seem to be 11 groups in the 20 species so far described.

Mr. A. SCHUITEMAN (L) started a revision of *Mediocalcar*. Of the 55 species described a score appear to be maintainable.

Mr. G. SEIDENFADEN (C) spent two weeks in P for a general check-up of material and literature for his 'Conspectus Orchidacearum indosinicarum'.

Messrs. G. SEIDENFADEN (C) and J. WOOD (K) have started with a new edition of Holtum's famous 'Orchids of Malaya'. Any information on new finds and new localities would be highly appreciated. Even more would be voucher specimens and flowers (identified or not) preserved in 50+% ethanol in strong plastic bottles and packed in tightly closed plastic bags. Well-documented colour photographs are welcome, too! Please send to either GS, Borsholmgaard, DK-3100 Hornbak, Denmark, or JW, Royal Botanic Gardens, Kew TW9 3AB, U.K. Note that if you mail living specimens without the necessary permits they probably will be impounded and destroyed.

Mr. H. TURNER (L) finished his treatment of *Hancockia* (1 species) and *Mischobulbum* (7), 2 genera close to *Tainia* (c. 10).

Mr. J.J. VERMEULEN (L) finished a manuscript for a part of the Orchid flora of Borneo. Descriptions and plates of 100 species of *Bulbophyllum*, divided over 12 sections, were prepared, and also a critical list of all (c. 200) species occurring in Borneo. For the next part c. 70 drawings in pencil have already been done. He is now studying the genus at the sectional level. Especially the New Guinea species turned out to pose great difficulties.

Dr. E. F. DE VOGEL (L) continued his studies of the *Coelogyinae*. A cladistical analysis (CAFCA, PAUP) of 29 species of *Pholidota* showed that two sections could not be maintained. The revision of *Coelogyne* sect. *Tomentosae* for Borneo was continued.

Palmae — Dr. J. DRANSFIELD (K) has finished a manuscript of a rattan manual for Sarawak to be printed there using camera-ready copy generated in K.

Ms. P. KRAMADIBRATA (RNG) is studying *Calamus inops* and related species under the supervision of Dr. J. DRANSFIELD.

Piperaceae — Dr. C. W. LEK (NSW) has finished a manuscript on the family for the Flora of Australia. He is now engaged in revising *Piper* for New Guinea and the Solomon Islands, and intends to continue with the whole genus for the rest of Malesia.

Rosaceae — Dr. C. KALKMAN (L) continued to polish up his revision for the Flora Malesiana. Recent collections from New Guinea of *Potentilla* showed the presence of several undescribed taxa.

Rubiaceae — Dr. J. T. JOHANSSON (S) is studying *Morinda*.

Dr. C. E. RIDSDALE (L) described species of the *Aidia* group of *Randia* s.l.

Sapindaceae — Mr. F. A. C. B. ADEMA (L) has nearly finished the taxonomical part of his study of *Cupaniopsis*, estimated at 48 species.

Dr. P. W. LEENHOUTS (L) hindered by other duties was interrupted in his attempts to get a grasp on *Sarcopteryx*.

Mr. P. C. VAN WELZEN made a leaf anatomical study of *Guioa*.

Sapotaceae — Dr. T. D. PENNINGTON (K) has been working on a worldwide generic monograph which is nearly finished. He recognizes fewer genera than most previous workers, and has been able to define them on correlated suites of vegetative, floral, and fruit characters.

Simaroubaceae — The family is revised for the Flore de la Nouvelle-Calédonie et Dépendances by Mr. J. JAFFRÉ (NOU).

Solanaceae — Mr. D. E. SYMON (AD) has expressed his interest in the family, and may start to write it up for the Flora Malesiana in 1989.

Sterculiaceae — The revision for the Flore de la Nouvelle-Calédonie et Dépendances by Dr. P. MORAT (P) is in its final stages.

Dr. C. WESTERKAMP (MJG) has started a study of floral morphology and floral biology.

Tiliaceae — The family is being studied by Ms. C. TIREL (P) for the Flore de la Nouvelle-Calédonie et Dépendances.

Umbelliferae — Dr. P.F. STEVENS (A) is revising *Oreomyrrhis* in New Guinea.

Vitaceae — Dr. A.M. LATIFF (UKMB) is critically examining *Tetrastigma* in New Guinea and Thailand.