

IV. PROGRESS IN MALESIAN BOTANY

(continued from Volume 9, page 389)

General

Dr. J.H. BEAMAN (MICH) is preparing a checklist of the flowering plants of Mt. Kinabalu, *Sabah*.

Ms. Dr. L.J. BULALACAO (PNH) has been working at the Palynological Laboratory of S with the intention of starting up a *Pollen Flora of the Philippines*. Among other things she paid a short visit to L in November 1987.

Mr. B. GRZIMEK (London School of Economics) is doing an ethnobotanical project on the plants of *Ceram*.

Drs. R. HNATIUK (Canberra) and D.J. DU PUY (K) are preparing a flora of *Christmas Island*, Indian Ocean.

Mr. KAMARUDDIN (UKM) is compiling a database on the flora of Mt. Trusmadi, *Sabah*. He would welcome additional information.

Dr. J.V. PANCHO (CAHUP) for 3 months in 1987 studied *Philippine types* at English institutes financed by a grant of the British Council.

Algae

Dr. E. COPPEJANS (GENT) is studying the *marine algae* of the Northern coast of Papua New Guinea. See also Prud'homme van Reine.

Mr. A.M. HATTA (Oceanographic Station, Ambon) has been working on *Gelidiales* of Indonesia at L from the end of October 1987 to the end of June 1988 under the guidance of Dr. W.F. Prud'homme van Reine.

Drs. W.F. PRUD'HOMME VAN REINE (L) and E. COPPEJANS (GENT) are sorting out the algological collections made during the Snellius Expedition (1984).

Mr. W. VYVERMAN (GENT) is studying the freshwater phytoplankton (especially *Desmidiaceae* and *Diatoms*) of North and Central Papua New Guinea.

Bryophytes

Mr. A.D. MOHAMED (UKMB) will continue to study the *mosses* of the Cameron Highlands after having finished those of the G. Ulu Kali and G. Bunga Buah.

Pteridophytes

Dr. A. BIDIN (UKMB) has finished his studies of the P. Langkawi ferns recording 59 genera with 134 species, 2 subspecies, and 4 varieties.

Ms. H. GAY supported by a Leverhulme Scholarship will continue her Ph.D. studies on *Lecanopteris* for 1 year from 1 January 1988 at FRI, Kepong, under the guidance of Dr. F. S. P. Ng.

Dr. R.J. JOHNS (Univ. of Technology, Lae) visited L between 20 December 1987 and 20 January 1988 for his studies on *Asplenium* and other New Guinea pteridophytes.

Dr. H.P. NOOTEBOOM (L) has started to study the *Davalliaceae*.

Ms. Dr. B.S. PARRIS and collaborators at K continued their studies on the use of scales and hairs in the classification of *Grammitidaceae*.

Ms. G.A. VAN UFFELEN (L) continued her studies on the sporogenesis and germination of *Belvisia mucronata*, *Drynaria sparsisora* and *Microgramma ciliata*. She studied possible relatives of the family and fossil representatives, and tried to make a model for spore wall formation.

Angiosperms

Amaranthaceae — The manuscript for the Flore du Cambodge, Laos et Vietnam submitted by Dr. K. LARSEN (AAU) has been translated into French and is prepared for publication in 1988.

Annonaceae — Ms. M.E. BAKKER (L) has started on a study of comparative ultrastructure and development of the oil and mucilage cells of selected species of this family and of the *Lauraceae* (q.v.) for her Ph.D.

Dr. L.W. JESSUP (BRI) spent considerable time on the problems of the generic limits of *Ancana*, *Guamia*, *Meiogyne*, *Oncodostigma* and *Polyaulax*.

Dr. P.J.A. KEBLER (L) will work for 2 years on the family for the Flora Malesiana. He previously has revised *Orophea* for his Ph.D. He has now started on the *Saccopetaleae*.

Araceae — Mr. J. PARNELL (TCD) and Ms. J. SZUJKÓ-LACZA (BP) have reported that H.W. Schott's personal herbarium is deposited in BP probably containing many iso- and syntypes of the material that was lost in W.

Ms. S. SUNARTI (BO) studied the comparative anatomy of the leaves of *Alocasia bantamensis*, *A. crassifolia* and *A. macrorrhiza*.

Ms. N. UTAMI (BO) has started with a revision of the Malesian species of *Pothos*.

Araliaceae — Dr. D.G. FRODIN (PH) is close to finishing his treatment of *Schefflera* for the Philippines. There are about 90 species, i.e. a reduction of ca. 20% compared to previous accounts. For many areas little has been collected in recent times. He also has prepared an enumeration of *Schefflera* for Tantra & Whitmore's Tree Flora of Indonesia.

The family has been revised by Dr. P.P. LOWRY II (MO) for the Flore de la Nouvelle Calédonie et Dépendances. Illustrations are well-advanced. *Delarbrea* has been published in Allertonia. He is collaborating with Dr. D.G. FRODIN (PH) on a precursory paper.

Araucariaceae — The proposal by J.F. VELDKAMP & D.J. DE LAUBENFELS (Taxon 33, 1984, 337) to reject *Pinus dammara* Lambert because of prior implicit lectotypifications was not accepted by the Committee for Spermatophyta (Taxon 36, 1987, 736). Confusion continues.

Asclepiadaceae — Dr. O. THAITONG (Chulalongkorn Univ., Thailand) is studying *Hoya* for the Flora of Thailand.

Barclayaceae — See *Nymphaeaceae*.

Basellaceae — The manuscript for the Flore du Cambodge, Laos et Viêtنام submitted by Dr. K. LARSEN (AAU) has been translated into French and is prepared for publication in 1988.

Boraginaceae. — Dr. L.A. CRAVEN (CANB) is revising the Australian species of *Heliotropium*.

Caprifoliaceae — The *Viburnum* species occurring in Cibodas were revised during the 1987 Course in Plant Taxonomy in Bogor by Ms. R. SAWITRI (Cibodas National Park) and Mr. Y. PAISOOKSANTIVATANA (Dept. Agriculture, Bangkok). There are 2 species.

Caryophyllaceae — The manuscript for the Flore du Cambodge, Laos et Viêtنام submitted by Dr. K. LARSEN (AAU) has been translated into French and is prepared for publication in 1988.

Chenopodiaceae — The manuscript for the Flore du Cambodge, Laos et Viêtنام submitted by Dr. K. LARSEN (AAU) has been translated into French and is prepared for publication in 1988.

Crassulaceae — The manuscript for the Flore du Cambodge, Laos et Viêtنام submitted by Dr. K. LARSEN (AAU) has been translated into French and is prepared for publication in 1988.

Cunoniaceae — The family is being revised by Dr. R.D. HOOGLAND (P) for the Flore de la Nouvelle Calédonie et Dépendances. The genera *Geissois* and *Weinmannia* are studied for the whole Pacific area.

Dilleniaceae — The family is being revised by Mr. J.M. VEILLON (NOU) for the Flore de la Nouvelle Calédonie et Dépendances. The illustrations are finished, but some nomenclatural problems remain.

Dipterocarpaceae — The family is being revised for the Flore du Cambodge, Laos et Viêtنام by Drs. T. SMITINAND (BKF), J.E. VIDAL, and P.H. HỒ (P), and hopefully will be published in 1989.

Elaeocarpaceae — *Elaeocarpus*. Mr. M.J.E. COODE (K) is assisting Dr. R. WEIBEL (G) in a revision for the Flora Malesiana area.

Ericaceae — Rev. N.G. CRUTTWELL (Goroka) reports to have seen at least 25 natural hybrids in *Rhododendron* in New Guinea.

Drs. P.H. HỒ (P) and T. SMITINAND (BKF) are finishing the revision for the Flore du Cambodge, Laos et Viêtنام.

Dr. P.F. STEVENS (A) continued his studies on the Malesian *Vaccinieae*, describing new species of *Dimorphanthera* and *Vaccinium*, and reducing others.

Together with Dr. S. VAN DER KLOET (Wolfville University) he studied the taxonomic and ecological significance of the variation in the morphology and anatomy of seeds and fruits of the tribe.

Euphorbiaceae — Part 1 for the Flore de la Nouvelle Calédonie et Dépendances has been published; part 2 (*Phyllanthoideae*) should be ready for the press in the middle of 1988. *Phyllanthus* will be treated by Mr. M. SCHMID (P), the others by Dr. G. MCPHERSON (MO).

Fagaceae — Dr. T. SMITINAND (BKF) started a revision for the Flore du Cambodge, Laos et Viêtنام and the Flora of Thailand with *Quercus* (ca. 42 species).

Gesneriaceae — Mr. B.L. BURTT (E) is continuing his work for the Flore du Cambodge, Laos et Viêtنام.

Dr. O.M. HILLIARD and Mr. B.L. BURTT (E) will complete a revision of *Epithema* over its whole range (W. Africa to Solomon Islands) in 1988. Mr. Burtt is also continuing his work on other genera, e.g. *Agalmyla* (incl. *Dichrotrichum*) and *Cyrtandra*. In Van Steenis' Checklist (1987) *Dichrotrichum* is erroneously cited as a synonym of *Aeschynanthus*.

Mr. Z. XU (Zhongshan Univ., Quanzhou) will study *Paraboea* in E for 6 months between November 1988 and June 1989.

Gramineae — Mr. M. LAZARIDES (CANB) is revising the Australian species of *Enneapogon*, *Eragrostis* and *Sorghum*.

Ms. Dr. E.A. WIDJAJA (BO) continued with her studies on the Malesian *Bambusoideae*; she has completed a manuscript on *Dendrocalamus*, and is now working on *Bambusa*.

Mr. K.M. WONG (BRUN) is revising the *Bambuseae* of the Malayan Peninsula for his M.Sc. thesis.

Guttiferae — Dr. P.F. STEVENS (A) is studying *Garcinia*. This genus may well turn out to be polyphyletic and eminently dismemberable. The New Guinea taxa show some bizarre embryos.

Descriptions of all taxa of *Mesua* have been completed. The genus has to be split up and restored to its old state with *Kayea* containing the bulk of the species (ca. 70!), of which many undescribed. There are also 2 new species of *Mesua*.

After analysis of a rather large data set the outlines of the phylogeny of the *Bonnetiaceae*–*Clusiaceae*–*Hypericaceae* have become more clear.

Hernandiaceae — Mr. J. JÉRÉMIE (P) is revising the family for the Flore de la Nouvelle Calédonie et Dépendances.

Juglandaceae — Dr. P.H. HỒ (P) is revising the family for the Flore du Cambodge, Laos et Viêtnam.

Lauraceae — For her Ph.D. Ms. M.E. BAKKER (L) has started on a study of comparative ultrastructure and development of the oil and mucilage cells in *Cinnamomum* and of selected *Annonaceae* in order to elucidate problems of possible homology of these secretory cells, which seem to replace each other in several closely related genera or species of the Magnoliales and Laurales. She has a grant for 4 years from BION, the Dutch Foundation for Biological Research.

Leguminosae — Part of the *Papilionoideae* for the Flore du Cambodge, Laos et Viêtnam has been published. The remaining genera and tribes will be studied by Drs. P. DY PHON (P) (*Desmodium*), R. GEESINK (L) (*Millettieae*), and P.H. HỒ (P) (*Dalbergieae*).

Dr. DING HOU (L) is continuing his study of *Crudia*.

Ms. T. DJARWANINGSIH (BO) continued with her revision of *Alysicarpus*.

Ms. Dr. P. DY PHON (P) continued her studies on the representatives in S.E. Asia.

Dr. L. PEDLEY (BRI) has discovered that the report of *Dendrolobium quinquepetalum* was based on *Desmodium arbuscula*.

Dr. S.T. REYNOLDS and Ms. A.E. HOLLAND (BRI) have nearly finished their studies on the Australian *Aeschynomeneae*. In *Zornia* Ms. Holland has distinguished 14 species, 3 new.

Ms. RUGAYAH (BO) continued with her revision of *Derris*.

Ms. S. SUNARTI (BO) continued with her revision of *Paraderris*.

Mr. T. UJI (BO) completed a manuscript on *Mimosa* of Java, where new introductions have been detected in recent years.

The *Mucuna* project by Dr. B. VERDCOURT and Ms. Dr. C.M. WILMOT-DEAR (K) is progressing slowly. Meanwhile in BO Mr. H. WIRIADINATA is revising the genus for Malesia.

Melastomataceae. — Mr. J.C. REGALADO Jr.'s (MICH) work on *Medinilla* from Borneo is showing excellent progress; there are at least 60 species, of which no less than 35 are presently thought to be undescribed!

Meliaceae — The family has been revised by Dr. D.J. MABBERLEY (FHO) for the Flore de la Nouvelle Calédonie et Dépendances; the manuscript is now with the Editors.

Ms. C. PANNELL (FHO) is continuing with her study on *Aglaia*.

Menispermaceae — Drs. A. HAMID (Univ. Malaya) and T. SEVENET (CNRS, Gif-sur-Yvette, France) are making a study of the alkaloids in Malesian species.

Myristicaceae — Dr. W.J.J.O. DE WILDE (L) is finalizing his revision of *Myristica* in W. Malesia. He will then tackle the complexes of species in Australia and New Guinea.

Myrsinaceae — Dr. T. C. WHITMORE (OXF) started a revision of *Tapeinosperma* which reaches from Borneo to Fiji, concentrated in New Caledonia. He is in touch with Drs. H. O. SLEUMER and B. C. STONE.

Myrtaceae — Dr. B. A. BARLOW (CANB) is continuing a revision of *Melaleuca*.

Dr. L. A. CRAVEN (CANB) has completed a manuscript in which he has reinstated and revised *Asteromyrtus* (*Melaleuca* p.p.).

Mr. P. CHANTARANOTHAI (TCD) studies Thai *Eugenia*.

The family is being revised by Dr. J. W. DAWSON (WELTU) for the the Flore de la Nouvelle Calédonie et Dépendances. Manuscripts for some genera of the *Leptospermoideae* are in their final stages of preparation.

Nyctaginaceae — The manuscript for the Flore du Cambodge, Laos et Viêtنام submitted by Dr. K. LARSEN (AAU) has been translated into French and is prepared for publication in 1988.

Nymphaeaceae — The proposal by W. E. CRUSIO and J. BOGNER (Taxon 33, 1984, 517) to conserve *Barclaya* against *Hydrostemma* Wall. was accepted by the Committee for Spermatophyta (Taxon 36, 1987, 737).

Orchidaceae — The main artist of the plates for the Orchids of Borneo Project is Mr. C. L. CHAN, who paints them from live material his own dissections.

Mr. J. B. COMBER (Ciba-Geigy, Bangkok) is studying the family for Java and Thailand, as he is there, anyway.

Ms. M. J. ERIKS (L) has started a revision of *Epiblastus* for Malesia.

After completing his study on the Malesian representatives of *Renanthera* Mr. U. W. MAHYAR (BO) started on *Arachnis*.

Ms. D. SULISTIARINI (BO) having finished the Indonesian species of *Luisia* has started on the Malesian species of *Adenonchos*.

Mr. H. TURNER (L) has started a world revision of *Tainia*.

Mr. J. J. VERMEULEN (L) has nearly finished his manuscript of *Bulbophyllum* for the Orchids of Borneo Project. He will then try to disentangle the sectional division of this huge genus.

Dr. E. F. DE VOGEL (L) is continuing his studies on *Coelogyne* sect. *Tomentosae*. The revision of *Pholidota* is in the press.

Palmae — Mr. J. P. MOGEA (BO) is finishing his revision of *Arenga* and hopes to submit the result as a Ph.D. thesis to the University of Indonesia (Jakarta) under the supervision of Dr. A. J. G. H. KOSTERMANS and Dr. M. A. RIFAI.

Phytolaccaceae — The manuscript for the Flore du Cambodge, Laos et Viêtنام submitted by Dr. K. LARSEN (AAU) has been translated into French and is prepared for publication in 1988.

Portulaccaceae — The manuscript for the Flore du Cambodge, Laos et Viêtنام submitted by Dr. K. LARSEN (AAU) has been translated into French and is prepared for publication in 1988.

Proteaceae — An account by Dr. P. H. HÔ (P) for the Flore du Cambodge, Laos et Viêtنام is planned to appear in 1990.

Ranunculaceae — *Clematis* species occurring in Cibodas were revised during the 1987 Course in Plant Taxonomy in Bogor by Messrs. N.B. GAPAS (PNH), I. HILWAN (Institut Pertanian, Bogor), and D.S. RIYANTO (Perum Perhutani, Jakarta). There are 4 species among which the very rare *C. korthalsii*, which is conspicuous for its large auricular pseudostipules. No precise locality of it is known.

Ranunculus species occurring in Cibodas were revised during the 1987 Course in Plant Taxonomy in Bogor by Ms. D. SRIBOONMA (BKF) and Mr. N.P. OKA (Universitas Hasanuddin, Ujung Pandang). There are 3 species.

Rhamnaceae — *Zizyphus* species occurring in Cibodas were revised during the 1987 Course in Plant Taxonomy in Bogor by Ms. MISRA (Universitas Sumatra Utara, Medan) and Mr. N. PHUMPAKKAPAN (Kasetsart University, Bangkok). There are 2 species.

Rubiaceae — Certain genera are being studied for the Flore de la Nouvelle Calédonie et Dépendances, e.g. *Coelospermum* and *Morinda* by Dr. J.T. JOHANNSON (S).

Dr. D.D. TIRVENGADUM (P) spent three months in 1988 at PH studying the *Randieae*. He has the impression that several smaller genera should be recognized in place of the large ones. *Randia* s.s. is then not present in Malesia and the Indo-Pacific tropics.

Rutaceae — Dr. T.G. HARTLEY (CANB) is continuing his revision of *Melicope*.

Santalaceae — The family is being revised by Dr. N. HALLÉ (P) for the Flore de la Nouvelle Calédonie et Dépendances. The manuscript and illustrations are now with the Editor.

Sapindaceae — Mr. F.A.C.B. ADEMA (L) is continuing his revision of *Cupaniopsis*.

Dr. P.W. LEENHOUTS (L) has started a study of *Sarcopteryx*.

Mr. P.C. VAN WELZEN (L) is gradually dissecting the complex genus *Guioa*.

Saxifragaceae — *Polyosma* species occurring in Cibodas were revised during the 1987 Course in Plant Taxonomy in Bogor by Messrs. M. MOHTAR (Forest Research Institute, Kuching) and K. SIDIYASA (BZF). There are 2 species.

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

Solanaceae — Ms. T. DJARWANINGSIH (BO) is starting a long-term plan to study the Malesian species of *Solanum*.

Mr. S.M.Z. HASSAN (Univ. Birmingham) studies *Solanum incanum* and related species.

Stemonaceae — Ms. Dr. B.E.E. DE WILDE-DUYFJES (L) has started a revision of the family for the Flora Malesiana.

Sterculiaceae — The family has been revised for the Flore de la Nouvelle Calédonie et Dépendances by Dr. Ph. MORAT (P). A precursory study of *Sterculia* and its segregate genus *Acropogon* has been published.

Thymelaeaceae — An account for the Flore du Cambodge, Laos et Viêtنام by Dr. P.H. HỒ (P) is planned to appear in 1990.

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

Triumfetta species occurring in Cibodas were revised during the 1987 Course in Plant Taxonomy in Bogor by Ms. R. WIDURI (Cibodas National Park) and Mr. K. KERENGA (LAE). There are 2 species. The record of *T. suffruticosa* was based on a misidentification of *T. graveolens*.

Vitaceae — Dr. A.M. LATIFF (UKMB) has written up the first draft of a revision for the Flora Malesiana.

Zingiberaceae — Ms. R.M. SMITH (E) hopes to complete her review of the Bornean representatives during 1988. Then it will be necessary to review the review! She is also engaged in preliminary work towards a new classification of *Alpinia* s.l.