

## II. PROGRESS IN MALESIAN BOTANY

(continued from Volume 10, page 312)

**Algae**

Mr. L.M. LIAO (NCU) is studying Indo-Pacific marine algae.

**Bryophytes**

Dr. H. AKIYAMA (TI; formerly KYO) is carrying out two projects concerned with the Malesian region.

1) *Flora of Seram* — Reports have appeared in a series of publications. The latest one, no. V, will be published in *Acta Phytotax. Geobot.* 43 (1992).

2) *Rheophyte mosses in Kalimantan* — He joined three expeditions directed by Dr. M. KATO (TI) in 1989, 1990, and 1991–1992, to East Kalimantan (Long Bawan and upper reaches of Sungai Mahakam), South Kalimantan (Gunung Batu Besar), and West Kalimantan (Gunung Niut and upper reaches of Sungai Kapuas). Several reports based on his collections from these areas will appear in the next 2–3 years.

Mr. D. GLENNY (WELT, formerly at BSIP) is preparing a checklist for the Solomon Islands.

Ms. F.I. WINDADRI (BO) has been studying the moss collections made in the Bogor Botanical Garden with a view of understanding the seasonality of their appearance and other phenological features.

**Pteridophytes**

Ms. J. BARCELONA (PNH) works on the fern flora of Mt Iraya, Batan Island, for her Master's dissertation.

Dr. D. DARNAEDI (BO) has started cytotaxonomic studies of the fern flora of the Gede-Pangrango Nature Reserve. A short communication as the result of this study was read at a meeting in Taiwan.

Mr. D. GLENNY (WELT, formerly at BSIP) is preparing a checklist for the Solomon Islands.

Dr. H.P. NOOTEBOOM (L) has finished a revision of *Araiostegia*, *Davallodes*, *Leucostegia*, and is continuing his studies on the generic delimitation of *Davallia* against *Pachypleuria*. *Parasorus* and *Scyphularia* are reduced to *Davallia* s. s.

Ms. B.S. PARRIS (AK) has finished 20 descriptions of *Grammitidaceae* for the FM account, with the same number of species in Australasia and the Pacific also completed, so work on the foundations of the generic delimitations in the family is proceeding steadily.

**Gymnosperms**

Mr. NGUYỄN TIÊN HÊP (HN) is now in P for one year to revise the *Cephalotaxaceae*, *Cupressaceae*, *Pinaceae*, *Podocarpaceae*, and *Taxodiaceae* for the Flore du Cambodge, Laos et Vietnam.

Dr. W. WERNER (Südasiens-Institut, Heidelberg) will publish a review of *Pinus* in Thailand this year.

## Angiosperms

*Anacardiaceae* — Mr. J. KULIP (SAN) is revising *Semecarpus* for the Tree Flora of Sabah and Sarawak.

*Annonaceae* — Ms. E. C. H. VAN HEUSDEN (L, formerly of U) will study the *Meiogyne* group during 6 months in 1992.

*Apocynaceae* — Dr. P. I. FORSTER (BRI) is revising the family, excl. *Parsonsia*, for the Fl. Australia. Revisions of *Cerbera* and *Melodinus* have been accepted for publication, while those of *Alyxia*, *Alstonia*, *Ichnocarpus*, and *Tabernaemontana* have been submitted. He has also started the revision for the Flore de Nouvelle-Calédonie et Dépendences.

*Araceae* — The Genera of *Araceae* project started in 1988 to review the family is well underway. The manuscript is in the final phase of revision and completion of text and illustrations (by Ms. E. CATHERINE) is scheduled for 1993. For more information, write to Dr. S. MAYO (K).

*Araliaceae* — Dr. D. G. FRODIN (Philadelphia) after a 5-weeks trip to Sarawak for the National Cancer Institute Project spent some weeks in Bogor working up the family.

*Aristolochiaceae* — Dr. M. H. P. JEBB (Christensen Research Institute, Madang) has begun a revision of the genus in New Guinea. It is intended to collect topotypes for the 6 (out of 9) names for endemics that have lost their original material. The importance of the genus to Birdwing butterfly farming in Papua New Guinea gives the genus new-found commercial value. Several undescribed species are present, one in the Arfak Mts, the other in the Sepik Basin.

*Asclepiadaceae* — Dr. P. I. FORSTER (BRI) is well advanced with the revision of *Marsdenia* s.l. for Australia and Papuasia. That of *Tylophora* is more or less complete and that of *Hoya* is rolling slowly but surely. A start has been made with *Dischidia*.

Mr. C. C. WILCOCK (ABD) intends to revise the family as far as the genera also occurring in Bangladesh are concerned, which amounts to about half the number of taxa.

Messrs. J. DE KONING (L) and R. VAN DONKELAAR (Werkendam, The Netherlands) intend to study the species of *Dischidia* and *Hoya*.

*Begoniaceae* — Mr. M. J. S. SANDS (K) is studying the species of *Begonia* in Brunei, most of which are undescribed (see Chapter III).

*Bombacaceae* — Mr. A. M. MOHTAR (SAR) in 1991 was at Reading studying *Durio*.

*Coriariaceae* — Dr. B. E. E. DE WILDE-DUYFJES (L) prepared a manuscript for the Flora Malesiana. There are 2 species.

*Cyperaceae* — Dr. K. L. WILSON (NSW) is studying *Lepidosperma* and *Schoenus*. She has completed a revision of *Cyperus* sect. *Pinnati* (32 species, 11 new).

*Ebenaceae* — Dr. F. WHITE (OXF) has finished the revision for the Flore de Nouvelle-Calédonie et Dépendences. *Diospyros* is represented by 31 species, 30 endemic.

*Epacridaceae* — Dr. D. MORRISON (University of Technology, Sydney) and Dr. J.M. POWELL (NSW) completed their study of the phylogenetic relationships of the *Styphelieae*. There will be changes in tribal, subtribal, and generic classifications.

Dr. P.I. FORSTER (BRI) is revising the family, excl. *Adriana*, *Phyllantheae*, *Euphorbia* s.l., *Stenolobeae* for the Fl. Australia.

*Euphorbiaceae* — A team at L will start the revision for the Flora Malesiana in 1992. In L Ms. A.M. SCHOT has started with *Aporusa* for her Ph.D. thesis.

*Gramineae* — Dr. R. NOWACK (Heidelberg, temporarily at L) under the guidance of Dr. J.F. VELDKAMP finished the *Cynodontae* for the Flora Malesiana, in total 8 genera with 22 taxa. He also revised *Leptochloa* (8 taxa) and concluded that *Leptochloa* and *Diplachne* cannot be distinguished. Some of the results will be published in a precursor.

Dr. M.C. ROOS (L) intends to study *Ischaemum* for the Flora Malesiana whenever his work as Head of the Tropical Group will permit it.

Dr. J.F. VELDKAMP (L) continued his revision for the Flora Malesiana and by mid-1992 had 'finished' the *Olyreae*, *Phareae*, *Oryzeae*, *Ehrharteae*, *Poeae* (except *Poa*), *Meliceae*, *Aveneae*, *Bromeae*, *Brachypodieae*, *Triticeae*, *Centothecaeae*, *Arundineae*, *Thysanolaeneae*, *Aristideae*, *Pappophoreae*, most of the *Eragrostideae*, and a few *Paniceae* and *Andropogoneae*, in all c. 30% of the genera and 38% of the species and lower taxa.

Dr. E.A. WIDJAJA (BO) continued with her study of Sumatran bamboos, especially the result of her own extensive collections made during the bamboo germplasm exploration financed by IDRC. The study has been aimed at the publication of a field guide of Sumatran bamboos.

Dr. K.M. WONG (SAN) has completed the revision of Malayan *Bambusa* and he will review the species of the other Malesian islands.

*Hernandiaceae* — Dr. B.E.E. DE WILDE-DUYFJES (L) started to work up the family for Flora Malesiana using an old manuscript by Dr. K. KUBITZKI.

*Juglandaceae* — The revision by Dr. P.H. HÔ (P) for the Flore du Cambodge, Laos et Viêtنام is expected to be published by the middle of 1992.

*Leguminosae* — Dr. R. GEESINK (L) will abandon taxonomic work on the family and is breaking in Dr. F.A.C.B. ADEMA as his successor. He intends to do a biogeographical analysis of *Pongamia*, but will be engaged in the next years with the application of hierarchical information theory to taxonomy.

Dr. D. HOU (L) is continuing his work on the *Caesalpinioideae* and is presently studying *Caesalpinia*, *Cynometra*, and *Maniltoa*.

The preparation of fasc. 27 of the Flore du Cambodge, Laos et Viêtنام (*Desmodieae*) by H. OHASHI (TUS) and P.D. PHON (P) is on the way and publication is expected by the end of 1992.

Ms. J.W.A. RIDDER-NUMAN (L) has prepared a data matrix, for the time being with macromorphological characters only, of *Butea* and *Spatholobus* with *Kunstleria* as an out-group for a phylogenetic and biogeographical analysis.

Ms. A.M. SCHOT (L) has finished a revision of *Callerya*, better known as *Padbruggea* and *Whitfordiodendron*. There are 19 species, which all but one will need new combinations. A paper is in press.

Mr. T. UJI (BO) studied the diversity of *Mimosa pigra* in Indonesia and presented a short paper in a meeting in Australia in May, 1991.

Dr. P.G. WILSON (NSW) is revising *Indigofera*.

*Loganiaceae* — Dr. B.J. CONN and Dr. E. BROWN (NSW) have begun studies of *Fagraea*, *Logania*, and *Strychnos* for Australia.

*Meliaceae* — Dr. J.T. EDMONDS (OXF), funded by the Leverhulme Trust, has spent time on fieldwork in Malaysia studying *Toona*, the basic taxonomy of which she has completed: she is extending the work with collaboration of the UPM Malaysia staff and studying plantation populations in Hawai'i.

Dr. T. CLARK's (OXF) monograph of *Walsura* and its segregate *Pseudoclausena* is in the press: it is necessary to resurrect *Heynea*.

The monograph of *Aglaia* by Dr. C.M. PANNELL (OXF) is with the printers and its publication will allow the completion of the family account for the Flora Malesiana.

*Myristicaceae* — Dr. W.J.J.O. DE WILDE (L) hopes to finish the family for the Flora Malesiana in 1992.

*Myrtaceae* — Dr. J.W. DAWSON (WELTU) has treated the family for the Flore de Nouvelle-Calédonie et Dépendences. There are 71 species. The revision will appear in 1992.

Dr. P.G. WILSON (NSW) will revise the family for the Flora of the Philippines.

*Nymphaeaceae* — Dr. S. JACOBS (NSW) is studying *Nymphaea*.

*Oleaceae* — Dr. R. KIEW (UPM) worked at the PNH in February 1992 for a week studying specimens of the *Oleaceae*.

*Orchidaceae* — Mr. J.B. COMBER (Southampton, U.K.) is writing an orchid flora of Sumatra in the same style as his previous treatment of the family for Java.

Ms. L. DAUNCEY (RNG) collected *Dendrobium* sect. *Pedilonum* in Papua New Guinea for a Ph.D. thesis in Reading and Kew.

Ms. H.J. VAN SCHEINDELEN (L) has finished *Bromheadia* sect. *Bromheadia*, which has 8 taxa of which 2 undescribed.

Mr. A. SCHUITEMAN (L) has finished the 6 taxa of *Agrostophyllum* sect. *Appendiculopsis* and is about done with *Mediocalcar* (16 taxa).

Ms. D. SULISTARINI (BO) has started to work on the family for an orchid flora of Bencoolen, Sumatra. Numerous new records have been revealed so far from that area.

Mr. J.J. VERMEULEN (L) has made a taxonomic revision of *Bulbophyllum* sections *Adelopetalum*, *Lepanthanthe*, *Macrouris*, *Pelma*, *Peltopus*, and *Uncifera*, all together 119 taxa, for which a cladistic analysis is presented. A biogeographical analysis failed as most species show overlapping ranges, but resemblances between species ranges and the outline of land masses which played a role in the geotectonic history of New Guinea allow a conjectural scenario.

Dr. E.F. DE VOGEL (L) continued his study of *Coelogyne* sect. *Moniliformes*. Several undescribed taxa were discovered. He is also upgrading Ms. W. VAN DER BURG's manuscript of *Nephelaphyllum* (see FMB 9/3: 266).

Ms. M. WEUNEN (L) has finished *Agrostophyllum* sect. *Dolichodesme*, which has 12 taxa.

*Palmae* — Mr. W.J. HAHN (WIS) is studying the systematics of *Caryota* for his Ph.D. thesis.

Dr. W. MILLIKEN (K) will be studying the ethnobotany of the rattans of North Celebes for 3 years from 1992.

Dr. J.P. MOGEA (BO) has completed his revision of *Arenga* for which he was awarded a Ph.D. degree at the University of Indonesia in Jakarta. Drs. A.J.G.H. KOSTERMANS and M.A. RIFAI were his supervisors.

Mr. L.G. SAW (FRIM) in 1991 was studying *Licuala* at Reading for his Ph.D. thesis.

*Pandanaceae* — Dr. M.H.P. JEBB (Christensen Research Institute, Madang) has completed a field guide for the genus *Pandanus* in New Guinea, the Bismarck Archipelago, and the Solomon Islands.

Dr. B.C. STONE (BISH/PNH) has finished a revision of Papuan *Pandanus* sect. *Maysois*; 11 out of its 16 species occur in Papua New Guinea.

*Pentastemonaceae* — Dr. B.E.E. DE WILDE-DUYFJES (L) has handed in her revision of the family for the Flora Malesiana.

*Pittosporaceae* — Mr. R. KIAPRANIS (LAE) is contemplating to revise the family for Papua New Guinea.

*Primulaceae* — The revision by Dr. C.-M. HU (IBSC) for the Flore du Cambodge, Laos et Viêtنام is expected to be published by the middle of 1992.

*Proteaceae* — The revision by Dr. P.H. HỒ (P) for the Flore du Cambodge, Laos et Viêtنام is expected to be published by the middle of 1992.

Drs. P.H. WESTON, J. THOMSON, and Mr. S. GILMORE (NSW) are studying the *Embothriinae* using molecular analysis.

*Rafflesiaceae* — Dr. W. MEIJER (KY) has handed in the manuscript of the treatment for the Flora Malesiana.

*Rosaceae* — Dr. C. KALKMAN (L) after 30 years of interrupted studies has finished the treatment for the Flora Malesiana. The manuscript has been handed in for editing.

*Rubiaceae* — Mr. W. TAKEUCHI (BISH) discovered *Myrmephytum*, previously for New Guinea only known from the Vogelkop, in the Hunstein Mts, which is a considerable extension of its range and again evidence of the 'peculiarity' of this last area.

*Rutaceae* — During the Botany 2000 Symposium, Manila, February 1992, a session on the family chaired by Dr. N.G. MARCHANT (PERTH) brought together several current studies with the phytochemical systematics well in evidence: J.A. ARMSTRONG (PERTH), H. IBRAHIM, R. OZA, P.G. WATERMAN (University of Glasgow, Scotland), and others. A presentation on Philippine representatives by Dr. B.C. STONE (BISH/PNH) was read by Dr. D.A. MADULID (PNH).

*Sapindaceae* — Ms. B.H.B. ETMAN (L) has finished her revision of *Rhysotoechia*. It has at least 14 species, of which 4 new, and another 5 insufficiently known. Manuscripts are prepared for Blumea and the Flora Malesiana.

The family revision for the Flora Malesiana will be finished in 1992 and manuscripts are being prepared for publication.

*Stemonaceae* — Dr. B. E. E. DE WILDE-DUYFJES (L) has handed in her revision of the family for the Flora Malesiana.

*Styracaceae* — The revision by Ms. B. SVENGSUKA (Vientiane) and Dr. J. P. VIDAL (P) for the Flore du Cambodge, Laos et Viêtnam is expected to be published by the middle of 1992.

*Thymelaeaceae* — The revision by Dr. P. H. HO (P) for the Flore du Cambodge, Laos et Viêtnam is expected to be published by the middle of 1992.

*Verbenaceae* — Dr. D. J. MABBERLEY (OXF) is working on *Clerodendron* and allies, notably *Oxera* in New Caledonia. His research student (jointly supervised by Dr. R. SCOTLAND), Ms. D. STEANE (OXF), a Rhodes Trust Student from Australia, is using chloroplast-DNA studies to elucidate the limits of the genera of *Clerodendreae*, in collaboration with Dr. R. G. OMSTEAD (COLO). Dr. M. LARGE (OXF) is joining the group to study *Vitex*, particularly its palynology: he is funded by a Royal Society Endeavour Fellowship.

*Winteraceae* — The revision by Dr. W. VINK (L) for the Flore de Nouvelle-Calédonie et Dépendances is in translation.

*Zingiberaceae* — Ms. R. M. SMITH (E) continues to study *Alpinia*. She will be pleased to help other workers on the family.