

IX. BIBLIOGRAPHY*
(continued from page 3534)

The entries have been split into five categories: a) *Algae* — b) *Fungi & Lichens* — c) *Bryophytes* — d) *Pteridophytes* — e) *Spermatophytes & General subjects*. — Books have been marked with an asterisk.

The scope of this Bibliography has hitherto been to cover the East and Southeast Asiatic area, Malesia, the Pacific and Australasia. Unfortunately the number of entries for this instalment has increased far beyond the available space, in part due to an increase of very short papers. To my regret the bibliography had to be curtailed and become more selective, by which it can no longer be as complete as was the original purpose. Among the papers on the colder and drier marginal areas, and among minutiae and mere name listings for local areas a selection has been made.

a) *Algae* :

AGARKAR,D.S., M.S.AGARKER & R.DIKSHIT, *Desmids from Bandhavgarh, Madhya Pradesh, India*. *Hydrobiologia* 65 (1979) 213-223, 93 fig.
 Records listed.

ALLENDER,B.M. *Dictyotopsis propagulifera (Phaeophyta) - an algal enigma*.
Phycologia 19 (1980) 234-236, 3 fig.
 Tropical Old World mangrove genus; raised to family rank.

ANAND,V.K. *Blue-green algae of Gadigarh stream (Miran Sahib, Jammu)*. I.
Phykos 18 (1979) 21-24, 1 tab.
 25 names listed.

ASHTEKAR,P.V. & N.D.KAMAT, *Additions to the desmid flora of Marathwada, Maharashtra*. *Phykos* 18 (1979) 45-50.
 59 taxa recorded.

----- & ----- *Filamentous Myxophyceae of Aurangabad District, Maharashtra*.
J.Bomb.Nat.Hist.Soc. 76 (1979; publ. 1980) 215-218.
 Some 40 names listed.

BHARATI,S.G. & G.R.HEGDE, *A systematic account of Chlorococcales of Hassan District, Karnataka State, India*. *J.Bomb.Nat.Hist.Soc.* 76 (1979; publ. 1980) 545-547, 3 pl.
 Name list; no novelties.

*CHAPMAN,V.J. *The marine algae of New Zealand. III. Rhodophyceae. Issue 4: Gigartinales*. Kramer Verlagbuchhandlung, Waldenar (1979) pp. 279-509.

CHATURVEDI,U.K., S.K.BHATNAGAR & U.C.PANDEY, *On Batrachospermum from Rohilkhand division, U.P., India*. *Phykos* 18 (1979) 53-56, 2 fig.

* For papers on Dipterocarpaceae, see pages 3588-3599.

CHIHARA, M. *Delisea okadai* (Yamada) Chihara comb.nov. (*Rhodophyta*, *Bonne-maisoniacae*). *Phycologia* 18 (1979) 437.
Ptilonia reduced to Delisea.

----- & T. NAKAMURA, *Compsopogon corticrassus*, a new species of fresh water red algae (*Compsopogonaceae*, *Rhodophyta*). *J.Jap.Bot.* 55 (1980) 136-144, 4 fig. In Japanese.

CORDERO Jr., P.A. *Phycological observations VI. Mangrove-associated algae from Aklan, Philippines*. *Kalikasan* 7 (1978) 275-296, 5 fig., 1 tab. Records with keys to spp. within genera; some new vars. & records.

DAVEY, A. & W.J. WOELKERLING, *Studies on Australian mangrove algae. I. Victorian communities: composition and geographic distribution*. *Proc.R.Soc.Vict.* 91 (1980) 53-66, 1 fig., 1 pl., 5 tab. Name list; descriptions; ecology.

DOGMA Jr., I.J. *Philippine zoosporic fungi: Blyttiomycetes verrucosus n.sp. (Chytridiales), with a revision of the genus*. *Kalikasan* 8 (1979) 237-266, 37 fig.
Key to 8 species.

DUCKER, S.C. *History of Australian phycology: the significance of early French exploration*. *Brunonia* 2 (1979) 19-42, 11 fig., 2 tab.
Early French explorers.

*FOGED, N. *Diatoms in New Zealand, the North Island*. Bibl. Phycologica (1979) ii + 226 pp., 48 pl., map.

FORTES, M.D. & G.C. TRONO Jr., *Marine algal microphytes new to the Philippines*. *Kalikasan* 8 (1979) 51-68, 15 fig.
35 spp. listed; most species associated with mangroves; many new records for the West Pacific.

FREITAS, J.F. & N.D. KAMAT, *Desmidiaceae of Nagpur*. *Phykos* 18 (1979) 97-103.
82 names recorded.

GUNALE, V.R. *Nelliecarteria ramosa* (Carter) De Toni. A new record for India (*Cyanophyta*). *Curr.Sci.* 49 (1980) 275-276, 1 fig.

HASLE, G.R. & E.E. SYVERTSEN, *The diatom genus Cerataulina: morphology and taxonomy*. *Bacillaria* 3 (1980) 79-113, 13 pl.

*HIROSE, H. (ed.), *Illustrations of the Japanese fresh-water algae*. (1977) 933 pp., 255 pl. In Japanese.
A magnificently illustrated monographic treatment, with keys and descriptions. Composed by 11 authors.

ITONO, H. *The genus Galaxaura (Rhodophyta) in Micronesia*. *Micronesica* 16 (1980) 1-19, 16 fig.
13 spp. keyed out.

----- & R.T. TSUDA, *New algal genera and species records from Micronesia: Chamaedoris orientalis* (Chlorophyta) and *Rhodopeltia gracilis* (Rhodophyta). *Micronesica* 16 (1980) 21-27, 11 fig.
2 new records.

- JAO, Chin-chih & Yuan-jie LING, *Zygnema insolitum*, sp.nov. and its reproduction. *Acta Phytotax. Sin.* 18 (1980) 486-488, 1 fig. In Chinese.
- JOHNSON, A. *The Trentepohliaceae of Singapore Island*. *Gard.Bull.Sing.* 31 (1978) 229-237, 9 fig. Aerial algae; 7 taxa listed.
- KUMANO, Shigeru, Morphological study of nine taxa of *Bostrychia* (*Rhodophyta*) from Southwestern Japan, Hong Kong and Guam. *Micronesica* 15 (1979) 13-33, 7 pl. Key to 9 taxa.
- *KUROKAWA, S. (ed.), *Studies on Cryptogams of Papua New Guinea*. Acad.Sci. Book Inc.Tokyo (1979) 148 pp., illus. Preface pp. 1-3, 1 map. A new independent book with 10 papers on fungi, bryophytes and algae. The preface contains an account of the collections made from which data are derived; map with the localities in Papua New Guinea.
- MAY, V. *Compsopogon coeruleus* (*Balbis*) Montagne (*Rhodophyta: Erythrotrichiaceae*). New record of this genus for Australia. *Telopea* 2 (1980) 142-143.
- MISHRA, G.P. & J.PUROHIT, A preliminary list of soil algae from Sagar. *Phykos* 18 (1979) 63-67, 1 tab. 27 entities listed.
- MUKHERJEE, S. & M.N.NOOR, On a new Charophyte from India. *Hydrobiologia* 68 (1980) 81-84, 2 fig. *Chara indica* n.sp.
- MÜLLER, D.G. Genetic affinity of *Ectocarpus siliculosus* (Dillw.) Lyngb. from the Mediterranean, North Atlantic and Australia (*Phaeophyta*). *Phycologia* 18 (1979) 312-318, 2 fig., 2 tab. Bipolar range.
- OTANI, Y. *Termitomyces albuminosus* (Berk.) Heim collected in Ishigaki Island of Ryukyu Archipelago, Japan. *Trans.Mycol.Soc.Japan* 20 (1979) 195-202, 1 fig., 1 col.pl. In Japanese.
- PADDOCK, T.B.B. & P.A.SIMS, Observations on the marine diatom genus *Auricula* and two new genera, *Undatella* and *Proboscidea*. *Bacillaria* 3 (1980) 161-196, 8 pl.
- PANDEY, U.C. & U.K.CHATURVEDI, Algae of Rohilkhand Division, U.P., India. V. *Phykos* 18 (1979) 37-43. 51 names listed.
- PATEL, R.J. & C.K.ASOKA KUMAR, *Zygnemaceae of Gujarat, India. III. Zygnemopsis* (*Skuja*) Transeau. *Acta Botanica Indica* 5 (1977) 20-24, 14 fig.
- & ----- *Desmids of Gujarat, India. I. Genus Closterium Nitzsch.* *Phykos* 18 (1979) 111-124, 2 pl. 46 species recognized and listed.

- PRASAD, B.N. & R.K. MEHROTRA, *Desmid flora of North Indian paddy fields.*
 New Botanist 4 (1977) 49-74, 3 pl.
 77 records described and listed.
- & ----- *Aphanocapsa gigantea - A new species from a crop-field soil.*
 New Botanist 4 (1977) 99-100, 2 fig.
- & ----- *Some new additions to Cyanophycean Flora of India.* J. Indian
 Bot. Soc. 57 (1978) 98-101, 9 fig.
 16 records.
- & ----- *Algal floristics in India - A resumé.* Bull. Bot. Surv. India
 19 (1977; publ. 1979) 279-292, 1 tab.
- SALAM, A.M. Abdus, *A new member of Chlorococcales, Pediastrum simplex var.*
karnafullum var. nov. from Bangladesh. Phykos 18 (1979) 11-12, 1
 fig.
- SARAYA, A. & G.C. TRONO Jr, *The marine benthic algae of Santiago Island and*
adjacent areas in Bolinao, Pangasinan (Philippines). I. *Cyanophyta,*
and Phaeophyta. Natur. & Appl. Sci. Bull. 31 (1979) 1-59, 10 pl.
 Records listed.
- SARMA, T.A., S. KATA & SUNITA, *Algal flora of Patiala and its environs -*
Cyanophyceae II. Phykos 18 (1979) 13-19.
 79 names listed (from India).
- SARODE, P.T. & N.D. KAMAT, *Diatoms of Marathwada, Maharashtra.* I. Phykos 18
 (1979) 25-32, 39 fig.
 39 names listed.
- SHYAM, R. & Y.S.R.K. SARMA, *Studies on some interesting freshwater Dino-*
phyceae from North India. Nova Hedwigia 32 (1980) 133-159, 4 pl.
 22 species; some new.
- SUBBA RAJU, N. & M.R. SUXENA, *Algae and Testacea of the Cho Oyu (Himalayas)*
Expedition II; Cyanophyta, Chlorophyta, Euglenophyta, Chrysophyta
and Testacea. Hydrobiologia 67 (1979) 141-160, 80 fig.
 Records listed.
- WATANABE, M., G.W. PRESCOTT & T. YAMAGISHI, *Freshwater algae of Papua New*
Guinea (2). Desmids from Woitape, Central District. In: S. Kurokawa
 (ed.), *Studies on Cryptogams of Papua New Guinea.* Acad. Sci. Book
 Inc. Tokyo (1979) 49-66, 45 fig.
 45 records (a few new varieties).
- WATANABE, M.M., M. WATANABE & T. YAMAGISHI, *Freshwater algae of Papua New*
Guinea (3). Blue-green algae from Mt. Wilhelm. Ibid. 67-85, 5 fig.
 49 records; no new species.
- WATANABE, S. *Green soil algae from Papua New Guinea.* Ibid. 87-102, 5 fig.
 13 records; 1 new sp., 1 new comb.
- WEE, Y.C. *Annotated list of Algae of Singapore (I).* Gard. Bull. Sing. 31
 (1978) 238-250, 1 pl.
 Key to genera; species listed.

WOLLASTON, E.M. Recognition of *Pterothamnion Naegeli* with taxonomic notes on *P. simile* (Hooker & Harvey) Naegeli and *Platythamnion nodiferum* (J. Agardh) Wollaston (Rhodophyta, Ceramiaceae). *Trans.R.Soc.S.Aust.* 103 (1979) 191-196, 4 fig.

From Austral islands.

WOMERSLEY, H.B.S. Southern Australian species of *Polysiphonia Greville* (Rhodophyta). *Austr.J.Bot.* 27 (1979) 459-528, 14 fig.
Key to 26 spp. (9 new spp.); distribution; ecology.

YAMAGISHI, T. & M. WATANABE, Freshwater algae of Papua New Guinea (1). On some filamentous green algae. In: S. Kurokawa (ed.), *Studies on Cryptogams of Papua New Guinea*. Acad. Sci. Book Inc. Tokyo (1979) 33-47, 6 fig.
44 records; no new species.

ZHU, Wan-jia, Some new species of the Zygnemataceae from Guangdong (Kwang-tung). *Acta Phytotax. Sin.* 18 (1980) 106-109, 1 pl. In Chinese.

ZORIKI, T. Benthic fresh-water diatoms in Lombok Island, Indonesia. *Jap.J. Phycol. (Sorui)* 28 (1980) 117-121, 20 fig. In Japanese.
Records of 10 species epiphytic on Marsilea.

b) *Fungi & Lichens :*

* AHMAD, Sultan, *Ascomycetes of Pakistan. Part I & II*. Biol. Soc. Pakistan, Monogr. no. 7 & 8 (1978) 144 pp. & 236 pp., illus.
Keys and descriptions.

AHTI, T. Taxonomic revision of *Cladonia gracilis* and its allies. *Ann.Bot. Fennici* 17 (1980) 195-243, 35 fig.
Key to taxa, incl. also Australasia.

AWASTHI, D.D. A general resumé of the lichen flora of India. *Bull.Bot. Surv. India* 19 (1977; publ. 1979) 301-306.

BARR, M.E. A classification of Loculoascomycetes. *Mycologia* 71 (1979) 935-957.
Keys to 58 families, several new.

BEATON, G., G.A. CRICHTON & G. WESTE, A check list of Victorian Gasteromycetes. *Victor.Natur.* 97 (1980) 165-169.

----- & G. WESTE, A check list of Discomycetes (Fungi) collected in Victoria. *Victor.Natur.* 96 (1979) 245-249.

----- & ----- A check list of the Victorian Pyrenomycetes and Loculoascomycetes. *Victor.Natur.* 97 (1980) 65-67.

BIAN, Bo-zhong, K. HATAI, G.L. PO & S. EGUSA, Studies on the fungal diseases in Crustaceans. I. *Lagenidium scyllae* sp.nov. isolated from cultivated ova and larvae of the mangrove crab (*Scylla serrata*). *Trans. Mycol. Soc. Japan* 20 (1979) 115-124, 16 fig., 3 tab. In Japanese.

BOESEWINKEL, H.J. Erysiphaceae of New Zealand. *Sydowia* 32 (1979) 13-56.
39 species recognized and keyed out.

BON,M. Clé monographique du genre *Lactarius* (Pers. ex Fr.) S.F.Gray.

Docum.Mycol. 10 (1980) 1-85.

With notes on American and Asian species.

CHEN,Zuei-ching, Additional materials for a rust-flora of Taiwan. Taiwania 25 (1980) 185-186.

7 new records for Taiwan.

-----, Tieh-lan HU & T.KOYAMA, A preliminary survey of Uredinales on Formosan Gramineae. Taiwania 25 (1980) 152-165, 6 fig., 6 pl. 45 records.

----- & T.KOYAMA, *Puccinia kraussiana* (Uredinales) on *Heterosmilax gaudichaudiana*, a new record of rust in eastern Asia. Bot.Mag.Tokyo 93 (1980) 95-99, 6 fig., 1 tab. Africa, Taiwan.

CHOWDHERRY,H.J. The genus *Achaetomium* Rai et al. Nova Hedwigia 32 (1980) 473-482, 2 fig.

Key and description of 12 species.

CUEVAS,V.C. & F.R.UYENCO, Mycoflora of decomposing leaf litters. Nat. Appl.Sc.Bull. (Coll.Arts & Sc., Univ.Philip.) 29 (1979) 107-169, 14 pl.

Key and descr. to many fungi; on leaves of *Pentacme*, *Cleidion*, *Stemonurus*, and some other forest trees.

DISSING,H. & R.P.KORF, Preliminary studies in the genera *Ruhlandiella*, *Sphaerosoma*, and *Sphaerozone* (order Pezizales). Mycotaxon 12 (1980) 287-306, 8 fig.

Key to genera; some species from Australasia.

DÖBBELER,P. *Vezdaea dawsoniae* (Lecanoreles), ein neuer Moosbewohner aus Neuguinea. Herzogia 5 (1979) 95-101, 1 fig.

DOI,N. & Y.DOI, Notes on *Trichoderma* and its allies. 1. A list of Teleomorphic species with *Trichoderma* or its allied anamorphs hitherto known. Bull.Natn.Sci.Mus.Tokyo B 5 (1979) 117-123.

Name list.

DOY,Y. & T.TOMINAGA, A preliminary note on the name of the brown leaf spot fungus of rice. Bull.Natn.Sci.Mus.Tokyo B 5 (1979) 107-116, 3 fig., 1 tab.

Metasphaeria albescens.

DRING,D.M. Contributions towards a rational arrangement of the Clathraceae. Kew Bull. 35 (1980) 1-96, 27 fig., 1 tab.

Key to families, genera and species; incl. some new combinations; full synonymy and ample notes.

DURRIEU,G. Urédinales du Népal. Cryptogamie Mycologia 1, 1 (1980) 33-68. Over 150 species listed (3 new).

DYKO,B.J., B.C.SUTTON & M.F.ROQUEBERT, The genus *Protostegia*. Mycologia 71 (1979) 918-934, 9 fig.

Gives a new genus on *Eucalyptus* in Australia, among others.

- ELIX, J.A. A taxonomic revision of the lichen genus *Hypogymnia* in Australia. *Brunonia* 2 (1979) 175-245, 38 fig. & maps.
Keys; descr.; 11 species (2 new), incl. New Zealand and New Guinea.
- & G.N. STEVENS, New species of *Parmelia* (*Lichens*) from Australia. *Austr.J.Bot.* 27 (1979) 873-883, 6 fig.
6 new species.
- *FILSON, R.B. & R.W. ROGERS, *Lichens of South Australia*. Govt. Printer, South Australia (1979) 197 pp., 16 pp. col.pl., 12 pp. monochrome phot., 10 pl. of line-drawings, 7 maps. Paperbound. \$10.50.
Keys; descr. of genera and species.
- FRANCIS, S.M., D.W. MINTER & T.S. CAINE, Three new species of *Anthostomella* (*Fungi*). *Trans.Br.Mycol.Soc.* 75 (1980) 201-206, 3 fig.
One new species from E. Australia.
- GALLOWAY, D.J. Notes on the lichen genus *Baeomyces* in New Zealand. *Bot. Notis.* 133 (1980) 77-83, 4 fig.
Key to 3 species.
- & P.W. JAMES, Nomenclatural notes on *Pseudocyphellaria* in New Zealand. *Lichenologist* 12 (1980) 291-303, 2 fig.
30 species recorded (12 new combinations).
- GINNS, J. The genus *Flaviporus* Murrill (Polyporaceae). *Canad.J.Bot.* 58 (1980) 1578-1590, 20 fig.
- GOOS, R.D. Some helicosporous fungi from Hawaii. *Mycologia* 72 (1980) 595-610, 35 fig.
14 species reported (1 new species).
- GOURBIÈRE, F. & M. MORELET, Le genre *Rhizosphaera* Mangin et Hariot. 2. *R. pini*, *R. kobayashii* et *R. kalkhoffii*. *Cryptogamie Mycologie* 1, 1 (1980) 69-81, 7 fig.
3 species (1 from Japan).
- GRUEZO, W.S. Contributions to the lichen flora of the Philippines. 1. New and additional records. *Kalikasan* 6 (1977) 135-142.
24 species treated; 1 new combination in *Cladina*.
- Compendium of Philippine lichens. *Kalikasan* 8 (1979) 267-300.
Name list.
- HAFELLNER, J., H. MAYRHOFER & J. POELT, Die Gattungen der Flechtenfamilie *Physciaceae*. *Herzogia* 5 (1979) 39-79.
Key to revised generic concepts; descriptions.
- HALE Jr, M.E. The lichen genus *Relicina* (*Parmeliaceae*) in India and Sri Lanka. *The Bryologist* 83 (1980) 77-78.
6 species.
- HALL, I.R. & B.J. FISH, A key to the *Endogonaceae*. *Trans.Br.Mycol.Soc.* 73 (1979) 261-270.
No descriptions.

HAYWARD, B.W. & G.C.HAYWARD, *Lichens of the Cavalli Islands, Northern New Zealand.* Tane 25 (1979) 109-118, 3 fig.
Name list and habitat descriptions.

HAYWARD, G.C. *Collecting and curating lichens.* Tane 25 (1979) 207-208.

HEINEMANN, P. *Les genres Agaricus et Micropsalliota en Malaisie et en Indonésie.* Bull.Jard.Bot.Nat.Belg. 50 (1980) 3-68, 28 fig.
Elaboration of material collected by Corner in Malaya, Singapore, Sarawak, Sabah, Indonesia and Solomons. Incl. 25 spp. of Agaricus and 16 spp. of Micropsalliota (23 new spp.); new sect. in Agaricus. Keys to subgenera, sections and species.

HIRATSUKA, N. *A taxonomic revision of the autoecious species of Puccinia parasitic on the Compositae in the Japanese Archipelago. Contributions to the rust-flora of Eastern Asia XIII.* Rept.Tottori Mycol. Inst.Japan 18 (1980) 1-52, 48 fig., 1 tab.
30 spp. involved (none new); key.

----, S.KANEKO & E.NAGASAWA, *A list of rust fungi collected from the Ryukyu Islands in 1979.* Rept.Tottori Mycol. Inst.Japan 18 (1980) 157-162, 2 fig.
53 species listed.

----, ---- & H.NISHIGAKI, *A taxonomic revision of the species of Phragmidium in the Japanese Archipelago. Contributions to the rust-flora of Eastern Asia XIV.* Rept.Tottori Mycol. Inst.Japan 18 (1980) 53-88, 64 fig., 1 tab.
Key to 28 species (none new).

HOLM, L. *Some problems in angiosperm taxonomy in the light of rust data.* Symb.Bot.Upsal. XXII: 4 (1979) 177-181, 9 tab.

HONGO, T. *Higher fungi of the Bonin Islands. III.* Rept.Tottori Mycol. Inst. Japan 18 (1980) 149-155, 2 fig.
8 spp. recorded (1 new record, 1 new var., 1 new comb.).

---- & E.NAGASAWA, *Notes on some boleti from Tottori. V.* Rept.Tottori Mycol. Inst.Japan 18 (1980) 133-141, 3 fig.
3 spp. (2 new records, 1 new comb.); *Aureoboletus novoguineensis* reduced to *A. thibetanus*.

HORAK, E. *New species of Simocybe Karsten (Agaricales) from Papua New Guinea.* Sydowia 32 (1979) 123-130, 4 fig.

---- *Xeromphalina and Heimiomyces in Indomalaya and Australasia.* Sydowia 32 (1979) 131-153, 11 fig.
Including several new species.

---- *Paxilloid Agaricales in Australasia.* Sydowia 32 (1979) 154-166, 5 fig.

Including new species from New Guinea next to New Zealand and Australian species.

---- *New and interesting species of Phaeomarasmius (Agaricales) from Papua New Guinea and adjacent regions.* Sydowia 32 (1979) 167-180.

- Additional species of *Simocybe* (*Agaricales*) from Sabah and Australia. *Sydowia* 32 (1979) 181-184, 2 fig.
1 new species from Sabah, 1 transfer of an Australian species.
- *Entoloma* (*Agaricales*) in Indomalaya and Australasia. *Beih.Nova Hedwigia* Heft 65 (1980) 1-352, 234 fig., 8 col.pl.
Account of 234 species of which many are new; keys!
- *Fungi Agaricini Novazelandiae*. VIII. *Phaeomarasmius Scherffel* and *Flammulaster Earle*. IX. *Lepiotula* (*Maire*) *Locquin ex Horak*. X. *Simocybe* Karsten. *New Zeal.J.Bot.* 18 (1980) 173-182, 8 fig.; 183-188, 5 fig.; 189-196, 6 fig.
Keys for each genus; many new species.
- *Inocybe* (*Agaricales*) in Indomalaya and Australasia. *Persoonia* 11 (1980) 1-37, 23 fig.
Key to 23 species, many new or new combinations.
- HIJWEGEN,T. *Fungi as plant taxonomists*. *Symb.Bot.Upsal.* XXII: 4 (1979) 146-165, 11 fig., 1 tab.
- JÜLICH,W. *Studies in resupinate Basidiomycetes*. VI. *Persoonia* 10 (1979) 325-336, 1 fig.
Mostly Corticiaceae sens.lat.; 11 new genera, 2 new species, 43 new comb.; 2 new families Corneromycetaceae and Heteroscypheaceae. Incl. data from Borneo, New Zealand.
- A new species of *Paraphelaria* (*Auriculariales*) from Borneo. *Persoonia* 10 (1980) 539-540.
From Mt Mulu.
- *Basidiomycetes novitates muluensis*. *Bot.J.Linn.Soc.* 81 (1980) 43-46.
Phanerochaete (2 new sp.), *Tremellacantha* (nov.gen., 2 sp.); new family; *Aporphium* (1 new sp.), *Globosomyces* (2 new sp.).
- *----- & J.A.STALPERS, *The resupinate non-poroid Aphyllophorales of the temperate northern hemisphere*. North-Holland Publ. Co., Amsterdam, Oxford, New York (1980) 338 pp..
Consists for the greater part of a comprehensive key to c. 800 spp. in 131 genera. Most of the species are confined to the northern hemisphere, but many of the genera are known or are to be expected from Southeast Asia.
- KASHIWADANI,H. *Lichens of Kohzu-shima Island, the Izu Islands*. *Bull.Natn. Sci.Mus.Tokyo* B 5 (1979) 97-107, 2 fig. (maps), 1 pl.
61 species listed; plant geography.
- KATUMOTO,K. & Y.HARADA, *Plant parasitic fungi from the Bonin Islands. II. Ascomycotina and Deuteromycotina*. *Trans.Mycol.Soc.Japan* 20 (1979) 411-428, 8 fig., 5 pl.
15 spp. among which 1 new genus; 7 new spp., 1 new comb.
- KELLER,J. *Ultrastructure des hyphes incrustées dans le genre Skeletocutis*. *Persoonia* 10 (1979) 347-355, 10 fig.
Concerns also Javanese species; 6 new combinations.

- KHURANA, I.P.S. *The Clavariaceae of India. XIV. The genus Typhula.* Mycologia 72 (1980) 708-727, fig. 1-37.
9 spp. keyed out (3 new); a new subgenus described.
- & K.S.THIND, *Species of Ramaria (Aphyllophorales) with dimorphic fruit-body context from India, and observations on their hyphal system.* Trans.Mycol.Soc.Japan 20 (1979) 279-298, 28 fig., 1 tab.
Keys and descriptions (some new species).
- KIRK, P.M. & G.L.BENNY, *The genus Utharomyces Boedijn (Pilobolaceae: Zygomycetes).* Trans.Br.Mycol.Soc. 75 (1980) 123-131, 23 fig.
Extensive description of this widely distributed species.
- KOBAYASI, Y. *Miscellaneous notes on the genus Cordyceps and its allies (12-15).* J.Jap.Bot. 54 (1979) 324-333; ibid. 55 (1980) 86-92; 180-188; 280-284; illus.
- * KOHLMAYER, J. & E.KOHLMEYER, *Marine mycology. The higher fungi.* Acad.Press New York/San Francisco/London (1979) xiv + 690 pp., 129 fig., 22 tab.
A complete treatment; keys.
- KUROKAWA, S. (ed.), *Studies on Cryptogams of Papua New Guinea* (1979) — see entry on page 3623.
- *Enumeration of species of Parmelia in Papua New Guinea.* In: S.Kurokawa (ed.), *Studies on Cryptogams of Papua New Guinea.* Acad.Sci. Book Inc.Tokyo (1979) 125-148, 2 pl.
61 species recorded (10 new species).
- LIU, Bo & Yun-sun BAU, *A new genus and a new species of Clathraceae.* Mycotaxon 10 (1980) 293-295, 2 fig.
Pseudoclathrus, intermediate between Lysurus and Clathrus.
- MAAS GEESTERANUS, R.A. *Studies in Mycena. 15. A tentative subdivision of the genus Mycena in the northern hemisphere.* Persoonia 11 (1980) 93-120.
23 sections; many new; key.
- MEHROTRA, B.S. *The current status of studies on the fungal flora of India: an overview.* Bull.Bot.Surv.India 19 (1977; publ. 1979) 293-300, 2 tab.
- MINTER, D.W. & B.L. BRADY, *Mononematous species of Hirsutella.* Trans.Br.Mycol.Soc. 74 (1980) 271-282, 15 fig.
Key to 12 species, incl. 2 from Ceylon (new comb.).
- MORINAGA, T., I.UTATSU & K.MINOURA, *Notes on filamentous fungi found in Japan (II).* Trans.Mycol.Soc.Japan 20 (1979) 493-498, 3 fig., 1 pl.
3 species (1 new).
- MURATA, Y. *New records of gill fungi from Hokkaido (3-5).* Trans.Mycol.Soc.Japan 20 (1979) 125-131, 133-140, 317-323, illus. In Japanese.
17 species (5 new to Japan), 1 new combination.

- NISHIBORI, K. Comparison between New Guinean wild and Japanese cultivated strains of *Lentinus edodes* by means of some physiological characteristics. In: S. Kurokawa (ed.), Studies on Cryptogams of Papua New Guinea. Acad.Sci.Book Inc.Tokyo (1979) 115-123, 5 fig., 1 tab. Comparisons of continental Asian and New Guinea strains of this important mushroom.
- OTANI, Y. *Sarcoscyphineae of Japan*. Trans.Mycol.Soc.Japan 21 (1980) 149-179, 14 fig. In Japanese.
22 species of several genera recorded; 1 new combination.
- PETERSEN, R.H. Notes on clavarioid fungi. XVIII. *Clavulinopsis* taxa in southeastern Australia. Sydowia 32 (1979) 209-223.
Key to 7 species (1 new).
- Type studies in the clavarioid fungi. V. The taxa described by Caspar van Overeem. Reinwardtia 9 (1980) 415-420.
Type specimens examined at Bogor, redescribed and assigned to their respective generic and infrageneric complexes.
- Type studies in the Clavariaceae. VI. Four pivotal types from the Pacific tropics. Mycotaxon 12 (1980) 281-286, 1 pl.
All Javanese species known.
- PHADKE, C.H. & V.G.RAO, *Pseudogliophragma*, a new genus of Hyphomycetes. Norw.J.Bot. 27 (1980) 127-130, 2 fig.
On Mangifera leaves in India.
- PUNITHALINGAM, E. & N.D.SHARMA, New microfungi from South East Asia. Nova Hedwigia 31 (1979) 881-897, 5 fig., 6 pl.
2 new genera, 1 new species.
- REID, D.A. A monograph of the Australian species of *Amanita* Pers. ex Hook. (Fungi). Austr.J.Bot. Suppl.Ser. no 8 (1980) 1-97, 107 fig.
Descriptions and key to 46 taxa; 3 new combinations.
- RIFAI, M.A. The identity of *Ustilago amadelpha* var. *glabriuscula*. Reinwardtia 9 (1980) 399-401.
Host identified and proper name is *Sporisorium overeemii* (Cif.) Rifai, comb.nov.
- SAMSON, R.A. & W.GAMS, *Pleurodesmospora*, a new genus for the entomogenous hyphomycete *Gonatorrhodiella coccorum*. Persoonia 11 (1980) 65-69, 2 fig.
1 new comb.; species also in Ceylon.
- SAVILE, D.B.O. Fungi as aids in higher plant classification. Bot.Review 45 (1979) 377-503, 15 tab.
- Fungi as aids to plant taxonomy: methodology and principles. Symb. Bot.Upsal. XXII: 4 (1979) 135-145, 4 fig., 3 tab.
- SHERWOOD, M.A. Taxonomic studies in the Phacidiales: the genus *Cocomyces* (Thytismataceae). Occ.Pap.Farlow Herb.Crypt.Bot. no 15 (1980) 1-120, 58 fig.—Monogr.; key to spp.; many new spp. and new comb.

- SINGH,K.P. *Awasthiella*, a new lichen genus from Manipur, India. *Norw.J. Bot.* 27 (1980) 33-35, 8 fig.
- & D.D.AWASTHI, Two new species and two new combinations in Graphidaceae. *Bull.Bot.Surv.India* 20 (1978; publ. 1979) 136-139, 14 fig. Incl. species from Ceylon, India, and Hong Kong.
- STEYAERT,R.L. Study of some *Ganoderma* species. *Bull.Jard.Bot.Nat.Belg.* 50 (1980) 135-186, 23 fig. Mostly American species; one extending into Malesia.
- SUGIYAMA,J. & Y.KOBAYASI, Additional collection of *Antennatula shawiae*, a hyphomycetous sooty mould from Papua New Guinea. *Trans.Mycol.Soc. Japan* 21 (1980) 65-70, 4 fig.
- & H.MOCHIZUKA, The Laboulbeniomycetes (Ascomycotina) of Peninsular Malaysia. *Trans.Mycol.Soc.Japan* 20 (1979) 339-355, 1 fig., 2 pl. 26 species keyed out (2 new spp.).
- THIND,K.S. & M.P.SHARMA, The genus *Hymenoscyphus* S.F.Gray in India. *Nova Hedwigia* 32 (1980) 121-132, 7 fig. 1 new species, 2 new records; key; 8 new combinations.
- UDAGAWA,Shun-ichi & T.MUROI, Coprophilous Pyrenomycetes from Japan V. *Trans.Mycol.Soc.Japan* 20 (1979) 453-468, 26 fig. 6 spp. (1 new sp., 1 new comb.).
- WALKER,J. Gaeumannomyces, Linocarpon, Ophiobolus and several other genera of sclecospored Ascomycetes and Phialophora conidial states, with a note on Hypopodia. *Mycotaxon* 11 (1980) 1-129, 50 fig.
- WATLING,R. A hypogeous Cortinarius from Kashmir. *Notes R.Bot.Gard.Edinb.* 38 (1980) 357-362, 1 pl., 1 fig.
- & N.M.GREGORY, Larger fungi from Kashmir. *Nova Hedwigia* 32 (1980) 493-564, 7 fig., 1 map. 119 Agarics and allied fungi listed; with comments.
- WEBSTER,J. & R.A.DAVEY, Two aero-aquatic Hyphomycetes from Malaysia. *Trans.Br.Mycol.Soc.* 75 (1980) 341-345, 4 fig. One record and a n.g.n.sp. on submerged leaves.
- WOOD,A.E. A key to the Australian genera of the Agaricales. *Proc.Linn. Soc.N.S.W.* 103 (1978; issued 1979) 255-273.
- YEN,Jo-min, Etude sur les champignons parasites du sud-est Asiatique. XXXII. Troisième note sur les Cercospora de Malaisie. *Cryptogamie, Mycol.* 1 (1980) 251-258, 4 fig. 2 new species, 2 new combinations, 2 records.
- Ditto. XXXVII. Champignons parasites de Malaisie. 20. *Bull.Soc.Myc. Fr.* 96 (1980) 17-25, 6 fig. 6 spp. (4 new) from Malaya.
- & G.LIM, Ditto. XXIX. Les Corynespora de Malaisie. *Cryptogamie, Mycol.* 1 (1980) 83-90, 3 fig. — 3 new species from Singapore.

- & ----- *Cercospora and allied genera of Singapore and the Malay Peninsula.* Gard.Bull.Sing. 33 (1980) 151-263, 66 fig. 98 species listed; many new combinations; index of host plants.
- YING,Jian-zhe, *A preliminary study on the resupinate Aphyllophorales from China.* Acta Bot.Yunnanica 2 (1980) 241-274, 7 fig. In Chinese. 67 species recorded, many of which new records for China; keys. 6 records (1 new species).
- YOKOYAMA,K. *Some coprophilous fungi from Papua New Guinea.* In: S.Kurokawa (ed.), *Studies on Cryptogams of Papua New Guinea.* Acad.Sci.Book Inc.Tokyo (1979) 103-114, 3 pl. Species listed per region.
- c) *Bryophytes :*
- BUCK,W.R. *A generic revision of the Entodontaceae (Musci).* J.Hattori Bot. Lab. no 48 (1980) 71-159, 103 fig. Contains also keys; subdivision of genera; new combinations.
- DEGUCHI,H. *Note sur quatre espèces himalayennes de la famille des Grimaciées (Musci).* Hikobia 8 (1980) 259-268, 4 fig. 1 Grimmia, 3 Racomitrium.
- ENGEL,J.J. *Austral Hepaticae X. A revision of Hepatostolonophora Engel et Schust., nom. nov. (Hepaticae).* J.Hattori Bot.Lab. no 46 (1979) 91-108, 8 fig. Nom.nov. for Stolonophora Engel & Schust. non Nizamuddin. Key to 3 species. In Australasia and temperate Chile.
- *A monograph of Clasmatocolea (Hepaticae).* Fieldiana n.s., Bot. no 3 (1980) viii + 229 pp., 29 phot., 61 fig. + maps. Largely growing in temperate southern hemisphere. Monographic; keys. Occurs also in Java!
- *FLORA MUSCORUM CHINAE BOREALI-ORIENTALIS (1977) 404 pp., 261 fig. In Chinese. Edited by the Institute of Sylviculture and Pedology, Academia Sinica. A complete flora with keys. Prov. Liaoning (former Manchuria); some new species described by Ch. Gao.
- *FLORA TSINLINGENSIS. Tomus III. *Bryophytes (Pars I)* (1978) 329 pp., 236 fig., hardcover. Instituto Botanico Boreali-Occidentali Academiae Sinicae.
- FRAHM,J.-P. & W.J.HOE, *Campylopus incurvatus: a new species of the Dicranaceae from Hawaii.* The Bryologist 81 (1978) 449-451, 8 fig.

- *GANGULEE, H.C. *Mosses of Eastern India and adjacent regions. A monograph.*
Fasc. 7 (Hypnobryales-Leskeinae). Publ. by author (Dec. 1978).
 Calcutta. xxxix-xliv + 1547-1752, fig. 776-884, map cccclvii-dxii.
 Important monograph.
- GAO, Chien & Chih-wen AUR, *Four new species of mosses from Xizang, China.*
Bull. Bot. Lab. North-East. Forest. Inst. Harbin, China 7 (1980) 97-103,
 3 pl. In Chinese.
- GODFREY, J.D. & G.A. GODFREY, *Scapania hians in Shensi, China and British Columbia, Canada.* The Bryologist 81 (1978) 357-367, 30 fig.
 Chinese species now turned up in North America.
- GRADSTEIN, S.R. *Present state of bryology in China.* Taxon 29 (1980) 369-370.
 With address list of Chinese bryologists. By the same author, an obituary of P.C.Chen (1907-1970) on p. 671-672, portr.
- & H. INOUE, *Studies on Lejeuneaceae subfam. Ptychanthoideae. V. A review of the species from Ceylon.* Bull. Natn. Sci. Mus. Tokyo ser. B (Bot.) 6 (1980) 23-32.
 17 species described (none new).
- GROLLE, R. *Über Harpalolejeunea in Australasien.* J. Hattori Bot. Lab. no 47 (1980) 237-244, 2 fig.
 2 species; 1 new comb.; both in New Zealand, Australia.
- *Nephelolejeunea in Australasien.* J. Hattori Bot. Lab. no 48 (1980) 161-170, 2 fig.
 Key to subdivisions; 2 new species.
- *Zur Kenntnis der Lebermoose von Samoa. I.* Wiss. Ztschr. Friedrich-Schiller-Univ. Jena, M.-N. R. 29 (1980) 637-648.
 Large name list with synonymy and comments.
- HAJI MOHAMED, M.A. *A taxonomic study of Bryum billardieri Schwaegr. and related species.* J. Bryol. 10 (1979) 401-465, 35 fig.
 Key to 16 spp.; many reductions which are much needed in this genus; interesting distribution maps.
- HASEGAWA, J. *Taxonomical studies on Asian Anthocerotae. II. Some Asian species of Dendroceros.* J. Hattori Bot. Lab. no 47 (1980) 287-309, 11 fig.
 9 species (2 new from Borneo).
- HATTORI, S. *Notes of the Asiatic species of the genus Frullania, Hepaticae.* XII. J. Hattori Bot. Lab. no 47 (1980) 85-125, fig. 219-240.
 New species and rare records from New Guinea and India; critical notes on several other Indo-Malesian species.
- *A revision of the subgenus Homotropantha of the genus Frullania, Hepaticae.* J. Hattori Bot. Lab. no 47 (1980) 165-236, 42 fig., 1 tab.
 Keys to species; hardly any novelties.
- *Notes on Frullania species of Iriomote and Ishigaki Islands, the Ryukyu Archipelago.* J. Jap. Bot. 55 (1980) 132-135, 1 fig. In Japan.

- Dr. H. Inoue's *Frullania* collection made in Formosa. Bull.Natn.Sci. Mus.Tokyo ser.B (Bot.) 6 (1980) 33-40, 3 fig.
12 taxa listed (3 new species).
- HOE,W.J. *Riccia sorocarpa* Bisch. in Hawaii. Misc.Bryol.et Lichen. 8 (1978) 52-53.
- *Bryophyta Hawaica Exsiccata - The first century.* The Bryologist 81 (1978) 411-415.
Name list.
- Additional new and noteworthy records for Hawaiian mosses. 5. The Bryologist 82 (1979) 79-82.
Various records.
- INOUE,H. Three new hepatics from Papua New Guinea. In: S.Kurokawa (ed.), Studies on Cryptogams of Papua New Guinea. Acad.Sci.Book Inc.Tokyo (1979) 11-18, 3 fig.
Plagiochila (2), Jungermannia (1).
- Studies on the oil-bodies of some Papua New Guinean hepatics. In: ibid. 19-32, 6 pl.
In 43 species; no novelties.
- IWATSUKI,Z. A preliminary study of *Fissidens* in China. J.Hattori Bot.Lab. no 48 (1980) 171-186, 6 fig.
31 species listed, none new.
- & B.C.TAN, Checklist of Philippine mosses. Kalikasan 8 (1979) 179-210.
Name list.
- KITAGAWA,N. New Guinean species of the genus *Bazzania*. I. J.Hattori Bot. Lab. no 47 (1980) 127-143, 8 fig.
Records and a number of new species.
- KOPONEN,T. A synopsis of *Mniaceae (Bryophyta)*. II. *Orthomnion*. Ann.Bot. Fennici 17 (1980) 35-55, 76 fig.
Probably a Laurasiatic genus; revision; key to 9 species.
- KRAMER,W. *Tortula Hedw. sect. Rurales De Not. (Pottiaceae, Musci) in der östlichen Holarktis.* Bryophytorum Bibliotheca 21 (1980) 1-165, 9 Abb., 29 Taf., 2 Karten.
With keys; incl. species from SE. & E. Asia.
- KUROKAWA,S. (ed.), Studies on Cryptogams of Papua New Guinea (1979) — see entry on page 3623.
- KUWAHARA,Y. Four new species of the Metzgeriaceae (Hepaticae) from the subantarctic region, with an enumeration of previously reported taxa of the family. Hikobia 8 (1980) 274-296, 59 fig.
Incl. 1 new species from New Zealand; checklist of 49 species for the region.
- LI,Xing-jiang & Mu ZANG, Studies on the Chinese Mniaceae. Acta Bot.Yunnanica 1, no 1 (1979) 32-80, 10 fig. In Chinese.
Keys; some new sections and species (49 spp. in Mnium).

- MAGILL,R.E. *A monograph of the genus Symphysodontella (Pterobryaceae, Musci).* J.Hattori Bot.Lab. no 48 (1980) 33-70, 16 fig., 4 maps.
Contains also Malesian species, even a new comb. for a species from Malaya.
- MANUEL,M.G. *A contribution to the moss flora of Taman Negara (Malaysia).*
Lindbergia 6 (1980) 37-40, 2 fig. (maps).
59 spp. reported from Kuala Tahan, among which a dozen new records for Malaya.
- MIZUTANI,M. *Notes on the Lejeuneaceae. 3. Some Asiatic species of the genus Cheilolejeunea.* J.Hattori Bot.Lab. no 47 (1980) 319-331, fig. 6 species treated (none new), from Malesia and SE. Asia.
- *Ditto. 4. Asiatic species of the genus Dicranolejeunea.* J.Hattori Bot.Lab. no 48 (1980) 235-242, 3 fig.
3 species treated and keyed out; one from Java.
- NOGUCHI,A. *Notulae Bryologicae. X.* J.Hattori Bot.Lab. no 47 (1980) 311-317, 4 fig.
Incl. species from continental Asia, New Guinea, Thailand. Some new combinations.
- OBCHANT,Na-Thalang, *A revision of the genus Riccia (Hepaticae) in Australia.* Brunonia 3 (1980) 61-140, 14 fig., 1 tab.
Key to 33 species (9 new spp., 5 new vars.).
- ONRAEDT,M. *Bryophytes de Sri Lanka (Ceylan). IV. Le genre Colura.* Rev. Bryol.Lichén. 45 (1979) 443-452, 5 fig.
Key to 8 species (none new).
- *SJÖDIN,Ake, *Index to distribution maps of bryophytes 1887-1975. II. Hepaticae.* Växtekologiska Studier 12 (1980) vi + 143 pp. Almqvist & Wiksell Intern., Stockholm.
- *TIXIER,P. *Bryogéographie du Mont Bokor (Cambodge). Bryophyta Indosinica.* XXIV. Bryophytorum Bibl. Bd 18. Cramer & Gantner (1979) 121 pp., 11 fig., 7 phot.
114 spp. of Musci listed (3 new); 105 spp. of Hepaticae (2 new).
- *Bryophyta Indosinica. XXIV. Cambodian Bryoflora. Collections from Phnom Kulen.* Nova Hedwigia 32 (1980) 369-376, 1 map.
32 Musci, 25 Hepaticae listed; none new.
- *Contribution to the Bryological knowledge of Malaysia. III. Cameron Highlands, mosses and epiphyllous liverworts.* Nova Hedwigia 32 (1980) 377-392, 1 map.
91 mosses and 45 epiphyllous hepaticae listed (3 new spp., with name only, no descr.).
- *Deux nouveaux genres de Lejeunéacées. Otolejeunea Grolle & P.Tx. et Allorgella P.Tx.* Nova Hedwigia 32 (1980) 607-622, 5 fig.
5 new species from Madagascar, Vietnam, Malaya, Java and New Caledonia in 2 new genera.

- UDAR, Ram & D.K. SINGH, *Notothylas dissecta*, a Hornwort new to India. The Bryologist 82 (1979) 625-628, 5 fig.
A hepatic genus hitherto from America now found in the wet ghats of Peninsular India; same species: *N. dissecta*.
- VITT, D.H. & W.J. HOE, *Andreaea* in Hawaii. The Bryologist 83 (1980) 212-214.
Key to 2 species.
- VOHRA, J.N. Studies on bryophytes in Botanical Survey of India, with particular reference to Musci. Bull. Bot. Surv. India 19 (1977; publ. 1979) 315-322.
- WEE, Y.C. Check list of mosses of Singapore. Gard. Bull. Sing. 32 (1979) 56-63.
126 species listed from 51 genera and 21 families.
- YAMADA, K. Japanese taxa of the genus *Radula*. Misc. Bryol. et Lichen. 8 (1979) 90-94, 2 fig. In Japanese.
Key to 20 species.
- A new species of *Radula* (Hepaticae) from Ceylon. Misc. Bryol. et Lichen. 8 (1979) 113-114, 1 fig.
- d) *Pteridophytes* :
- BHARGAVAN, P. & J. JOSEPH, *Loxogramme grammoides* (Bak.) C. Chr. - A new fern record for India. New Botanist 5 (1978) 43-44, 6 fig.
Formerly only known from Japan and China.
- BIR, S.S. Pteridophytic flora of India: a review of achievements and future challenges in the systematics and taxonomy. Bull. Bot. Surv. India 19 (1977; publ. 1979) 323-329.
- & C.K. TRIKHA, The polypodioid ferns: their classification, characteristics and evolution. New Botanist 6 (1979) 25-32, 1 fig.
Overview and scheme of derivation.
- CHANDRA, S. Taxonomic use of foliar epidermis and hypodermis in drynarioid ferns. Kalikasan 8 (1979) 211-226, 4 pl., 1 tab.
- & A.E. SALGADO, Sporophyte morphology in two species of *Hemigramma*.
Kalikasan 8 (1979) 69-78, 23 fig.
H. taccifolia and *H. latifolia* conspecific.
- CHIEN, Jia-jü, The fern genus *Phyllitis* Hill recently discovered in China. Acta Phytotax. Sin. 18 (1980) 482-483, 1 fig. In Chinese.
P. japonica Komarov.
- CHING, Ren-chang & Su-kung WU, *Platygyria* Ching et S.K. Wu, an unique new genus of the Polypodiaceae from China. Acta Bot. Yunnanica 2 (1980) 67-74, 4 fig. In Chinese.
2 species (1 new); allied to *Lepisorus*.
- CROFT, J.R. A taxonomic revision of *Isoetes* L. (Isoetaceae) in Papuasia. Blumea 26 (1980) 177-190, 1 fig., 21 pl.
Key to 4 spp. (2 new), all at high altitudes.

- DHIR, K.K. & K.RANI, *The genus Athyrium Roth in Nainital Hills.* J.Bomb. Nat.Hist.Soc. 76 (1979; publ. 1980) 49-58, 10 fig. Key to 10 species.
- DIXIT, R.D. *Studies on Pteridophytes in the Botanical Survey of India.* Bull.Bot.Surv.India 19 (1977; publ. 1979) 309-314.
- & R.K.GHOSH, *Three species of the fern genus Colysis Presl (Polypodiaceae) new to India.* Bull.Bot.Surv.India 20 (1978; publ. 1979) 100-102, 9 fig. Including key to 6 species.
- & N.C.NAIR, *Vittaria wattii Dixit et Nair - a new species of fern from Eastern India.* New Botanist 5 (1978) 41-42, 5 fig.
- GHOSH, B. & R.D.DIXIT, *Notes on two species of Lindsaea Dryan. from the Andaman and Nicobar Islands, India.* Bull.Bot.Surv.India 20 (1978; publ. 1979) 170-171, 2 fig.
- HOLTTUM, R.E. *A new look at the fern-genus Bolbitis in Malaya.* Mal.Nat.J. 33 (1979) 79-82. Various critical notes.
- *Sphaerostephanos (Thelypteridaceae) in Asia, excluding Malesia.* Kew Bull. 34 (1979) 221-232.
- *The fern-family of Thelypteridaceae in Malaya.* Gard.Bull.Sing. 33 (1980) 1-30. Rearrangement of the Malayan species according to the new system of genera in the family; in effect a new appendix to his Ferns of Malaya.
- & J.W.GRIMES, *The genus Pseudocyclosorus Ching (Thelypteridaceae).* Kew Bull. 34 (1980) 499-520, 2 fig. Key to 12 spp., some new comb., some new spp.; 1 sp. in Malesia, P. tylodes. For the first time characters of the reduced basal pinnae are described as distinctive for species recognition.
- IWATSUKI, K. *Distribution of the filmy ferns in Palaeotropics.* In: K.Larsen & L.B.Holm-Nielsen (eds.), Tropical Botany. Acad.Press London (1979) 309-314. General items; ecology and distribution.
- & M.KATO, *Enumeration of Kalimantan pteridophytes collected during 1978-79 (1).* Acta Phytotax.Geobot. 31 (1980) 24-43, 2 fig. Large name list of records; 2 new species.
- & ----- *Ditto (2).* Acta Phytotax.Geobot. 31 (1980) 164-181. Listed collections; new comb. in Tectaria, Thelypteris; 1 new sp. in Diplazium; some critical comments.
- JERMY, A.C. *Biosystematic studies of Dryopteris.* Acta Phytotax.Sin. 18 (1980) 37-44, 4 fig., 2 tab. In Chinese; English summary. Origin and phylesis of the genus centered in Asia.

- KATO,M. *Taxonomic study of the genus Cornopteris (Athyriaceae)*. Acta Phytotax. Geobot. 30 (1979) 101-118, 11 fig.
- & N.SAHASHI, *Affinities in the Onocleoid ferns*. Acta Phytotax. Geobot. 31 (1980) 127-138, 6 fig.
Mutteuccia and Onoclea; phylogenetic derivation.
- KHULLAR,S.P. & S.C.GUPTA, *Systematics of the genus Polystichum from the Himalayas*. Nova Hedwigia 32 (1980) 415-444, 84 fig.
Key and descriptions to 14 species.
- KUNG,Hsian-shiu, *Materials for the genus Lycopodium L. in Prov. Sichuan, China*. Acta Phytotax.Sin. 18 (1980) 234-239, 1 fig. In Chinese.
10 species described (4 new).
- LIN,You-xin, *New taxa of Adiantum L. in China*. Acta Phytotax.Sin. 18 (1980) 101-105, 1 fig. In Chinese.
Generic subdivision; 1 new species.
- *A systematic study of the family Azollaceae with reference to the extending utilization of certain species in China*. Acta Phytotax. Sin. 18 (1980) 450-456, 3 fig. In Chinese.
Key to 6 species and 2 varieties.
- NAIR,N.C. & S.R.GHOSH, *Taxonomical notes on a few species of Adiantum*. J.Bomb.Nat.Hist.Soc. 75 (1979) 939-941.
5 species contrasted in keys.
- NGUYEN VAN VUONG & T.SUMARTONO, *Some notes on the dispersal of Salvinia spp. in Java*. BIOTROP Bull. no 11 (1979) 227-238, 3 maps, 3 fig.
3 species occur; notes on their ecology.
- PARRIS,B.S. *New combinations in South-east Asian ferns*. Fern Gaz. 12 (1980) 118-119.
Preparation of Grammitidaceae for Flora Malesiana necessitated 23 transfers made here, in a multitude of genera.
- *Further notes on Doodia, Grammitis, and Blechnum (Filicales)*. New Zeal.J.Bot. 18 (1980) 145-147.
6 records (1 new sp. of Doodia, 1 new name in Grammitis).
- (PARRIS-CROXALL) *Fern-hunting in New Guinea*. Brit.Pteridol.Bull. 2 (1980) 89-91.
Tour report in Papua New Guinea.
- PIGGOTT,A.G. *The fern flora of oilpalm plantations in West Malaysia*. Fern Gaz. 12 (1980) 93-102, 9 fig. (1 map), 2 tab.
Species listed; epiphytes in relation to age of palm.
- RAVI,N. & J.JOSEPH, *A new species of fern from South India*. J.Bomb.Nat. Hist.Soc. 76 (1979; publ. 1980) 348-350, 5 fig.
Grammitis pilifera.
- VERMA,S.C. & S.P.KHULLAR, *Ferns of Nainital (Western Himalayas): an updated list*. Fern Gaz. 12 (1980) 83-92, 19 fig. (1 map).
96 species recorded with notes.

WU,Su-kung, *Leptolepidium Hsing et S.K.Wu* - a new genus of the *Sinopteridaceae*. *Acta Bot.Yunnanica* 1, no 1 (1979) 115-118. In Chinese.
5 species (1 new, 4 formerly in *Cheilanthes*).

ZHU,Wei-ming, *Taxa nova Pteridophytorum Yunnanicorum*. 1. *Acta Bot.Yunnanica* 1, no 2 (1979) 93-100, 3 pl.
3 new species in 2 genera (*Colysis*, *Neolepisorus*).

e) *Spermatophytes & General subjects :*

ACKERMAN,J.D. & N.H.WILLIAMS, *Pollen morphology of the tribe Neottieae and its impact on the classification of the Orchidaceae*. *Grana* 19 (1980) 7-18, 32 fig., 3 tab.

Pollen of 41 spp.; *Lecanorchis* is anomalous in the group and is probably more related with *Gastrodiae*; in *Orchidaceae* there are 4 phyletic units.

ADAMS,L.G. *A review of the genus Solenogyne (Asteraceae) in Australia and New Zealand*. *Brunonia* 2 (1979) 43-65, 13 fig. & maps.
Key to 3 species (1 new).

ALEXEEV,E. *Genus Festuca L. in Pakistano, India, Nepalo et Burma*. Nov. Syst.Pl.Vasc. 17 (1980) 10-42, 9 fig. & maps. In Russian.
Key to 34 species.

*ALI,S.I. *Papilionaceae*. Fl.West Pakistan no 100 (May 1977) 1-389, 48 fig.
Keys, descriptions.

*ALRASJID,H., R.EFFENDY & R. SURYANINGRAT, *An evaluation of application of Indonesian selective cutting system in S. Morra-S. Lariang forest complex, South Sulawesi*. Lembaga Penelitian Hutan, Bogor, Laporan no 327 (Nov. 1979) 45 pp. mimeogr., 8 tab., 6 fig., appendices.
In Indonesian; English summary. Incl. name list.

ANONYMUS, *How Pelagodoxa got to the Solomon Islands*. *Principes* 24 (1980) 37-38, 1 phot.

Marquesan palm probably introduced.

*ANONYMUS, *Pengenalan jenis-jenis pohon ekspor. Serie KE X & KE XI*. Bagian Botani Hutan, Bogor. Lembaga Penelitian Hutan, Bogor, Laporan no 310 (Aug. 1979) 49 pp. mimeogr., 29 pl. & Laporan no 350 (Sept. 1980) 71 pp. mimeogr., 25 pl. In Bahasa Indonesia.
54 important timber trees described and figured.

*ANONYMUS, *State of Sabah. Annual Report of the Forest Department for the year 1977*. 59 pp., with map of Sabah, East Malaysia.
Contains a useful map of forest reserves, mangrove F.R. and national parks.

*ANONYMUS, *Rhododendrons of China. Species Descriptions and Key from Vol. III, Iconogr.Cormoph.Sinicorum. Acad.Sinica. Binford & Mort, Portland, Oregon* (1980) 670 pp., with original illustrations. Translated in English by Judy Young & Lu-sheng Chong.
280 species; also a translated key to species.

- ANONYMUS, Rattan: *a report of a workshop held in Singapore, 4-6 June 1979.* Int.Devel.Research Centre, Ottawa, Ont. (1980) 76 pp., illus. Various aspects briefly: botany, collecting, products, research, cultivation, commercial. — Reviewed on page 3612.
- ANSARI, M.Y. & R.S.RAO, *Two new species of the genus Iphigenia Kunth (Liliaceae) from Western Ghats (India).* Bull.Bot.Surv.India 20 (1978; publ. 1979) 162-164, 2 pl., 1 tab.
- ARMITAGE, F.B. & J.BURLEY (compilers), *Pinus kesiya Royle ex Gordon (syn. P. khanya Royle; P. insularis Endlicher)* (1980) — Reviewed on page 3600.
- ARMSTRONG, J.A. & J.M.POWELL, *Neobyrnesia (Rutaceae): a new genus endemic to Northern Australia.* Telopea 1 (1980) 399-408, pl. XV-XVII, 1 fig. 1 map, 2 tab. 1 species; subtribe Boroniinae.
- ARORA, R.K. & K.L.MEHRA, *Special explorations for the collection of cultivated plants and their wild relatives in India.* Bull.Bot.Surv.India 19 (1977; publ. 1979) 139-144.
- ASHTON, P.S. *Some geographic trends in morphological variation in the Asian tropics and their possible significance.* In: K.Larsen & L.B. Holm-Nielsen (eds.), *Tropical Botany*, Acad.Press London (1979) 35-48. Various aspects of Dipterocarpaceae: geography and ecology; variation; hybridization.
- *The generic concept adopted for recent revisions with Dipterocarpoideae.* Mém.Mus.Natn.Hist.Nat.Paris sér.B Bot. 26 (1979) 128-138, 1 fig., 4 tab.
- *Phylogenetic speculations on Dipterocarpaceae.* Mém.Mus.Natn.Hist. Nat.Paris sér.B Bot. 26 (1979) 145-149, 1 tab.
- *Dipterocarpaceae.* Revised Handb.Fl.Ceylon ed. New Delhi 1 (1980) 364-423. — See page 3602.
- ASTON, H.I. & S.W.K.JACOBS, *Hydrocleys nymphoides (Butomaceae) in Australia.* Muelleria 4 (1980) 285-293, 4 fig. Recently naturalized locally in Victoria.
- AUSTIN, D.F. *Convolvulaceae.* Revised Handb.Fl.Ceylon ed. New Delhi 1 (1980) 288-363. — See page 3602.
- *AYENSU, E.S. (ed.), *Jungles* (1980) — Reviewed on page 3600.
- BALAKRISHNAN, N.P. *A new species of Ophiorrhiza (Rubiaceae) from Great Nicobar Island, India.* Reinwardtia 9 (1980) 411-414, 1 fig.
- & N.BHARGAVA, *Taeniophyllum andamanicum Balakr. & Bhargava (Orchidaceae) - an interesting new species from Andaman Islands.* Bull. Bot.Surv.India 20 (1978; publ. 1979) 154-156, 9 fig.

- & P.CHAKRABORTY, *Descriptive notes on some new or little known orchids of Nicobar Islands.* Bull.Bot.Surv.India 20 (1978; publ. 1979) 80-90, 4 fig., 3 pl.
11 species described.
- & N.G.NAIR, *The genus Amomum Roxb. (Zingiberaceae) in Andaman and Nicobar Islands.* J.Bomb.Nat.Hist.Soc. 76 (1979; publ. 1980) 196-199, 2 fig.
Key to 3 species.
- *BALAN MENON,P.K. *The anatomy and identification of Malaysian hardwoods.* Malayan Forest Records no 27 (1971) 1-124, 84 fig.
Portraits of wood anatomy of 84 species. Name list with numbers indicating presence from 86 characters projecting the knowledge contained in the card-sort keys.
- BALGOOY,M.M.J.van, *Observations on the Yellow-vented Bulbul (Pycnonotus goiaver) and germination of some seeds eaten by them.* Mal.Nat.J. 33 (1979) 59-65, 1 fig., 3 pl.
Germination is favoured by seeds passing the intestinals (Dillenia, Ehretia, Cordia, Passiflora).
- BARKER,W.R. *Taxonomic revisions in Theaceae in Papuasia. I. Gordonia, Ternstroemia, Adinandra and Archboldiodendron.* Brunonia 3 (1980) 1-60, 13 fig.
Keys; descr.; a number of reductions; Ternstroemia 5 spp. (1 new); Adinandra (1 sp.); Archboldiodendron (3 subsp.); identification list.
- BATES,R. *Spiranthes sinensis (Pers.) Ames (with notes on cultivation).* The Orchadian 6 (1980) 186-187, 1 fig.
Variation and ecology.
- BAWA,K.S. *Breeding systems of trees in a tropical wet forest.* New Zeal.J. Bot. 17 (1979) 521-524, 1 tab.
About 65% were found with bisexual flowers, monoecious 15%, dioecious 20%. In 25 bisexuals self-incompatibility was found 88%. It seems that the majority of tropical trees appear to be outcrossed.
- BEARD,J.S. *A new phytogeographic map of Western Australia.* Western Austr. Herb.Res.Notes no 3 (1980) 37-58, 7 fig. (maps), separate large map. Delination of the subdivisions; bot., geol., clim., topogr., and soil definition of each district within the provinces.
- BEAVER,R.A. *Fauna and foodwebs of pitcher plants in West Malaysia.* Mal. Nat.J. 33 (1979) 1-10, 2 fig., 1 tab.
Records of 55 insects and 3 arachnids known to live in Nepenthes pitchers in Malaya and Singapore Island.
- BELOY,F.B., V.A.MASILUNGAN, R.M.de la CRUZ & E.V.RAMOS, *Investigation of some Philippine plants for antimicrobial substances.* Philip.J.Sc. 105 (1976; publ. 1978) 205-213, 1 fig., 3 tab.
Based on 848 extracts from 106 spp.; 9 had high values of anti-microbial activity.

- BERNARDI,L. *The New Caledonian genera of Araliaceae and their relationships with those of Oceania and Indonesia.* In: K.Larsen & L.B. Holm-Nielsen (eds.), *Tropical Botany.* Acad.Press London (1979) 315-325, 6 fig., 1 tab.
Discussion of genera, Schefflera and Polyscias in particular. ;
- BETTS,J.J. *The rediscovery of Dendrobium convolutum Rolfe.* The Orchadian 6 (1979) 134-135, 1 pl.
From New Guinea.
- BHATTACHARYA,S. & S.K.JAIN, *A new name for an Indian grass.* Curr.Sci. 49 (1980) 444.
Agrostis subaristata = *Polypogon subaristatus* (Aitch. ex Hemsl.) comb.nov.
- BLAXELL,D.F. *Caladenia catenata (Sm.) Druce. A taxonomic note.* The Orchadian 6 (1980) 180, 2 phot.
Reduced to *C. carnea*.
- BOBROV,A. *Specimina authentica A.J.R.Forster et G.Forster in herbario instituti botanici (le) conservata.* Nov.Syst.Pl.Vasc. 17 (1980) 246-254. In Russian.
85 species listed from W. Pacific present in the Leningrad Herbarium.
- BOGNER,J. *Two new Aridarum species and one new variety from Sarawak.* Aroideana 2 (1979) 110-121, 11 fig.
Key to 7 genera and 5 spp. of Aridarum, almost all of Sarawak.
---- *The genus Bucephalandra Schott. (Arac.)* Aroideana 3 (1980) 134-143, 15 fig.
One species with full synonymy.
---- *A new species of Plesmonium (Araceae) from Indochina.* Adansonia 20/3 (1980) 305-308, 2 pl.
- BOLE,P.V. & M.R.ALMEIDA, *List of type specimens of the species, varieties and forma deposited in Blatter Herbarium, Bombay.* J.Bomb.Nat.Hist. Soc. 74 Suppl. (1979) 610-620, continued from 74 (2): 232.
Final instalment Liliac.-Zygoph. About 100 types of spp. or vars.
- BORCH,H.ter, *Herontdekking van enkele Phalaenopsis-soorten.* Orchideeën 42 (1980) 64-65, 2 phot.
Notes on specimens from Borneo and Celebes of 3 species.
- BOWEN,M.R. & T.C.WHITMORE, *Agathis - A genus of fast growing rain forest conifers.* Commonw.For.Review 59 (1980) 307-309.
General overview with special emphasis on value for silviculture, and its perspectives.
---- & ---- *Agathis, possible lines for future research.* IUFRO Symposium and workshop on genetic improvement and productivity of fast-growing tree species. Sao Paulo, Brazil (Aug. 1980) 3 pp. mimeogr.
Seed stands, seed storage, silviculture, vegetative propagation, insect pests.

- & ----- *The tropical conifer genus Agathis as a potential plantation tree.* Ibid. 9 pp. mimeogr.
General overview of several aspects.
- & ----- *A second look at Agathis.* CFI Occas.Papers no 13, Dept. Forestry Commonw. For.Inst. Univ.Oxford (1980) 19 pp. mimeogr.
Occurrence of stands and forest in nature; phenology of maturing cones; grafting; seed storage; vegetative propagation; pest and diseases; products yielded; seedling response to light; tabulation seeding trials of various species in countries all over the tropics.
- *BRINDLE,J.V. (ed.), *Indian botanical paintings.* Hunt Inst.Bot.Document. Pittsburgh (1980) 72 pp., 85 fig. (partly in col.).
Commented catalogue of an exhibition of old drawings and paintings of Indian plants borrowed from Kew, the BM (NH), Indian Office and Linnean Society. S.C.Welch made an introduction to ancient Indian art, Miss P.I.Edwards drew a sketch of development of botany in India. Further a comment on 72 species.
- BROOKER,M.I.H. *A revision of the informal series Foecundae Pryor and Johnson of the genus Eucalyptus l'Hérit. and notes on variation in the genus.* Brunonia 2 (1979) 125-170, 50 fig. & maps.
Including 2 new species.
- BROWN,A. *Another look at Pterostylis barbata Lindl. and Pterostylis plumosa Cady in Western Australia.* The Orchadian 6 (1980) 182, fig.
- BROWN,B.F. *Aglaonema: new discoveries, new hybrids, and related knowledge.* Aroideana 3 (1980) 120-126, 4 fig.
- BRUMMIT,R.K. *Further new names in the genus Calystegia (Convolvulaceae).* Kew Bull. 35 (1980) 327-334.
Incl. C. silvatica subsp. fraterniflora (Mackenzie & Bush) Brummitt, comb.nov. from China.
- BRUYNINCKX,Diane & Dirk, *Dendrobium haniffii Ridl. (syn. Dendrobium tortile Ldl.).* Orchideën 42 (1980) 65-66, 1 fig.
From Burma; descr. notes.
- *BUDDENHAGEN,I.W. & G.J.PERSLEY (ed.), *Rice in Africa.* Acad.Press London (1978) xv + 356 pp., 27 pl., 45 text-fig.
Rice culture in Africa ancient, 3000 years or more; genetic diversity of importance for gene pools Oryza sativa and O. glaberrima.
- BURROWS,C.J. *Long-distance dispersal of plant macrofossils.* New Zeal.J. Bot. 18 (1980) 321-322.
Leaves and other plant fragments can be dispersed over considerable distance by water and wind, confusing later fossil records.
- BURTON,J.S. *Joss stick makers of Selangor.* Nature Malaysiana 4, no 4 (1979) 30-37, illus.
Remarkable industry of bamboos for incense sticks.
- BURTT,B.L. *Cardamoms and other Zingiberaceae in Hortus Malabaricus.* In: Manilal (ed.), *Botany & History of Hortus Malabaricus* (1980) 139-148.

- BYRNES, N.B. *Callistemon and Melaleuca*. *Austral.Syst.Bot.Soc.Newsletter* 22 (1980) 8.
Discussion and proposal distinction of these two genera (Myrt.).
- CARLANDER, K.D. *Water Hyacinth and overfishing problems on an Indonesian lake*. *Proc.Iowa Acad.Sci.* 87 (1980) 20-22, 1 fig.
Rawa Pening site.
- CARLQUIST, S. *Anatomy and systematics of Balanopaceae*. *Allertonia* 2 (1980) 191-246, 102 fig., 2 tab.
Key to 9 spp. Isolated family (1 genus) with various 'affinities'; New Hebrides, New Caledonia, Queensland and Fiji.
- CAROLIN, R.C. *The genus Calogyne R.Br. in Australia*. (Good.) *Brunonia* 2 (1979) 1-17, 2 fig.
Key to 9 species (some new).
- CARR, G.D. *Two new species in the Hawaiian endemic genus Dubautia (Compositae)*. *Pac.Sci.* 33 (1979) 233-237, 2 fig.
- CHAI, P.P.K. *Ethnobotany. Part II*. *Sarawak Mus.J. n.s.* 26, no 47 (1978) 243-270, 29 fig.
31 species; uses by Iban and Dayak in Sarawak.
- *Bako National Park (Sarawak)*. *Nature Malaysiana* 4, no 4 (1979) 4-11, 21 phot.
Semi-popular account; botany and zoology.
- CHAKRABORTY, P. *New records of plants from Andaman and Nicobar Islands*. *J.Bomb.Nat.Hist.Soc.* 76 (1979; publ. 1980) 212-215.
13 names listed.
- CHANDRA, Dali, *A critical note on Rhus javanica L. (Anacardiaceae)*. *J.Bomb.Nat.Hist.Soc.* 76 (1979; publ. 1980) 554.
1 new variety. Author seems ignorant of the fact that the type of *Rhus javanica* L. = *Brucea javanica* (L.) Merr. (Simaroubaceae)! He worked probably with *Rhus chinensis* Mill.—v.St.
- CHANDRA BOSE, M. *A new species of Impatiens Linn. (Balsaminaceae) from South India*. *J.Bomb.Nat.Hist.Soc.* 75 (1979) 901-902, 9 fig.
- CHANG, Che-yung, *Materials of Chinese Elaeagnus Linn.* *Bull.Bot.Lab.North-East.Forest.Inst. Harbin, China* 6 (1980) 95-133, 12 pl. In Chinese.
Key to 51 species (many new).
- CHANG, Wen-jin, *A new species of Hemsleya*. (Cucurb.) *Acta Phytotax.Sin.* 17, no 4 (1979) 97-98, 1 fig. In Chinese.
- CHAO, Chi-son, Cheng-de CHU & Wen-yue HSIUNG, *A revision of some genera and species of Chinese bamboos*. *Acta Phytotax.Sin.* 18, no 1 (1980) 35-36. In Chinese.
Treatments of *Sinarundaria* (4 sp.), *Thamnochalamus* (2 sp.), *Indocalamus* (2 sp.), *Arundinaria* (5 sp.), *Sasa* (2 sp.), *Pleioblastus* (2 sp.), *Sinobambusa* (1 sp.), *Phyllostachys* (2 sp.); several new species or new combinations.

- CHAO, Hsiu-chien, *A new genus (Terniopsis gen.nov.) of Podostemonaceae from Fujian, China.* Acta Bot. Yunnanica 2 (1980) 296-299. In Chinese.
- *CHEN, Cheih, *Myrsinaceae.* Flora Reipubl. Pop. Sinicae 58 (1979) vii + 147 pp., 20 pl. In Chinese.
- *A new genus Tigridiopalma C.Chen of Melastomataceae.* Acta Bot. Yunnanica 1, no 2 (1979) 106-108. In Chinese.
Monotypic n.g. n.sp. of Sonerileae.
- *A new species of genus Fordiophyton Stapf (Melastomataceae).* Acta Phytotax. Sin. 18, no 1 (1980) 62. In Chinese.
New species from Hong Kong.
- CHEN, Chia-jui, *Archiboehmeria C.J.Chen - a new genus of Urticaceae.* Acta Phytotax. Sin. 18 (1980) 476-481, 1 fig. In Chinese.
Based on *Debregeasia atrata* Gagn.
- CHEN, Feng-hwai & Chi-ming HU, *Taxonomic and phytogeographic studies on Chinese species of Lysimachia. (Primul.)* Acta Phytotax. Sin. 17, no 4 (1979) 21-53, 2 fig., 1 map, 2 tab. In Chinese.
Subdivision of genus and synoptic key to 122 spp. of which 23 new.
- CHEN, S.L. *New name and new variety of Pseudopogonatherum A.Camus. (Gram.)* Acta Phytotax. Sin. 18 (1980) 489.
- CHEN, Xiu-xiang, *Plagiopteraceae. A new record from China and a new species.* Acta Bot. Yunnanica 2 (1980) 331-333, 1 fig. In Chinese.
A second species of *Plagiopteron* from Yunnan.
- CHEN, Yi-ling & Pan-kai CHOU, *Notulae de genere Berchemia Neck. generibusque affinibus florae sinicae.* Bull. Bot. Lab. North-East. Forest. Inst. no 5 (1979) 1-26, 4 pl. In Chinese.
Keys to *Berchemia* (18 spp., 7 taxa new), *Berchemiella* (1 new sp.), *Chaydia* (1 new comb.).
- & ----- *Materiae ad floram Rhamnacearum sinicarum.* Bull. Bot. Lab. North-East. Forest. Inst. no 5 (1979) 73-94, 4 pl. In Chinese.
Records and descr. of many species (8 new, mostly in *Rhamnus*).
----- & ----- *Novitates Rhamnacearum Xizangensis.* Acta Phytotax. Sin. 18, no 2 (1980) 248-250, 2 fig. In Chinese.
New species in *Rhamnus* and *Berchemia*.
- CHENG, Ching-yung, *Gnetaceae.* Flora Reipubl. Pop. Sinicae 7 (1978) 490-504, pl. 114-119. In Chinese.
Key to 8 taxa.
- CHENG, Mien & Tien-lu MING, *Daphniphyllaceae.* Flora Reipubl. Pop. Sinicae 45 (1) (1980) 1-10, 3 pl. In Chinese.
Key to 10 species (one new).
----- & ----- *Callitrichaceae.* Flora Reipubl. Pop. Sinicae 45 (1) (1980) 11-14, 1 pl. In Chinese.
Key to 4 species.

- & ----- *Buxaceae*. Flora Reipubl. Pop. Sinicae 45 (1) (1980) 16-59, 16 pl. In Chinese.
Key to 17 *Buxus*, 8 *Sarcococca* and 2 *Pachysandra*.
- & ----- *Coriariaceae*. Flora Reipubl. Pop. Sinicae 45 (1) (1980) 62-66, 1 pl. In Chinese.
Key to 3 species.
- & ----- *Anacardiaceae*. Flora Reipubl. Pop. Sinicae 45 (1) (1980) 66-135, 16 pl. In Chinese.
Key to 16 genera: 1 n.sp. and 3 vars.; *Rhus* retained only in strict sense.
- & ----- *Pentaphylacaceae*. Flora Reipubl. Pop. Sinicae 45 (1) (1980) 135-138, 1 pl.
1 species.
- CHENG, Shi-jun & Chen-zi TANG, *A new species of Dendrobium Sw. (Orchidaceae) from Hainan*. Acta Phytotax. Sin. 18, no 1 (1980) 98-99, 1 fig.
- CHENG, Wan-chün, c.s., *Cycadaceae*. Flora Reipubl. Pop. Sinicae 7 (1978) 4-18, 4 pl. In Chinese.
Key to 8 species (incl. cultivated ones).
- *Coniferae*. Flora Reipubl. Pop. Sinicae 7 (1978) 18-468, pl. 5-108.
In Chinese.
The account includes also cultivated species.
- CHIA, Liang-chi & Hok-lam FUNG, *On the validity of the genera Sinocalamus McClure and Lingnania McClure. (Gram.-Bamb.)* Acta Phytotax. Sin. 18, no 2 (1980) 211-216. In Chinese.
Sinocalamus rejected; Lingnania is a section of Bambusa; many new combinations in Bambusa and Dendrocalamus.
- CHIN, S.C. *The limestone hill flora of Malaya. II. Gard. Bull. Sing.* 32 (1979) 64-203.
- CHIN, Tsen-li, *Plantae novae Euphorbiacearum Xizangensium*. Acta Phytotax. Sin. 18, no 2 (1980) 251-252, 2 fig. In Chinese.
2 new species in Glochidion; 1 in Baliospermum.
- CHIU, Pao-lin, *Plantae novae ex Provincia Zhejiang (Chekiang)*. Acta Phytotax. Sin. 18, no 1 (1980) 96-97, 2 fig. In Chinese.
1 new species of Leontice (Berb.) and 1 of Photinia (Rosac.).
- CHUA, T.H. & F.W. FONG, *Patterns and diversity of aquatic macrophytes in Tasik Bera (West Malaysia)*. Mal. Nat. J. 33 (1979) 11-24, 7 fig., 2 pl., 4 tab.
Ecological-sociological study of this largest lake in Malaya, a blackwater swamp (613 km^2). Main constituents Utricularia (open water), Lepironia and Pandanus (littoral), Eugenia (margin).
- CHUMA, Ch. *Saprophytic plants of the Ise Shrine area (1). On Lecanorchis kiusiana Tuyama. (Orch.)* J. Jap. Bot. 55 (1980) 306-309, 2 fig., pl. V.

CHURCHILL, D.M. & J.R. DODSON, *The occurrence of Phyllocladus aspleniifolius (Labill.) Hook.f. in Victoria, prior to 1100 B.P.* Muelleria 4 (1980) 277-284, 1 pl., 2 tab.

To 23,000 B.P. in Dandenong Ranges, and 1100 B.P. in W. Victoria derived from pollen profiles. Macrofossils are found in several places in E. Australia in the Tertiary up to Pleistocene. Today it occurs only living in Tasmania.

CLAYTON, W.D. (533) *Proposal to conserve Rottboellia L.f. 1781 against Rottboellia L.f. 1779.* Taxon 29 (1980) 691. Gramineae. See also p. 692.

CLEMESHA, S.C. *A note on Dipodium hamiltonianum.* The Orchadian 6 (1979) 107.

----- *Bulbophyllum tuberculatum* Colenso, on the Australian mainland. The Orchadian 6 (1979) 136, 1 fig.

CONN, B.J. *Notes on Neuburgia Blume (Loganiaceae) in Papuasia.* Brunonia 2 (1979) 99-105, 4 fig., 1 tab. 1 species with 1 new variety from Papua.

----- *A taxonomic revision of Geniostoma subg. Geniostoma (Loganiaceae).* Blumea 26 (1980) 245-364, 29 fig. 23 species recognized (several new); key; identification list.

CONNOR, H.E. & E. EDGAR, *Rytidosperma Steudel (Notodanthonia Zotov) in New Zealand.* New Zeal.J.Bot. 17 (1979) 311-337, 7 fig. & maps. Transfers and 3 new species; key to 25 species.

COODE, M.J.E. *Notes on Papuan Elaeocarpaceae.* Kew Bull. 34 (1980) 740. 2 doubtful names clarified.

----- *An obscure new species of Elaeocarpus from central New Guinea.* Kew Bull. 35 (1980) 247-251, 1 fig., 1 tab. Including a tabulated 'key' to allied species.

COOK, C.D.K. & R.LÜÖND, *Two new species of Blyxa (Hydrocharitaceae).* Mitt. Bot. München 16 (1980) 485-492, 4 fig. Two new species, one from Angola, one from Vietnam.

COOKE, D.A. *Studies in Australian Centrolepidaceae. I. The scapeless species of Centrolepis Labill.* Muelleria 4 (1980) 265-272, 1 fig. Key to 5 species (1 new).

----- *The genus Luzula in Victoria.* (Juncac.) Victor. Natur. 97 (1980) 159-160. Key to 9 taxa.

COPE, T.A. *New combinations in Asiatic grasses.* Kew Bull. 35 (1980) 701-704, 1 map.

9 new comb. mostly of continental Asian species. Two of Malesia: Saccharum (Spodiopogon) velutinum from Singapore; S. (Spodiopogon) beccarii from Sumatra.

CORNER, E.J.H. *Dacrydium in Malaya.* Mal.Nat.J. 32 (1978) 103-104. A critical note.

CORTIGUERRA, A.G. *Mangrove and estuarine ecology in the Philippines.* Canopy International 5, no 10 (1979) 8-10 & 14. General notes.

*COURT, A.B. (compiler & ed.), *Catalogue of the living plants supported by herbarium vouchers. National Botanic Gardens, Canberra, Australia.* Dept. Capital Terr. (1980) folio, 202 pp. Important catalogue containing 2180 entries with 1450 spp. listed. Brief history; variability.

COVACEVICH, J.M. & J. COVACEVICH, *Palms in Northeastern Australia II: species from the Cooktown area.* Principes 24 (1980) 154-161, 6 fig. Overview and casual notes.

COWAN, R.S. (ed.), *Disinfestation of dried specimens at Kew.* Taxon 29 (1980) 198.

No fumigation of incoming material but disinfection by deep freezing (48 hours at -18°C).

COWLEY, E.J. *A new species of Roscoea (Zingiberaceae) from Nepal.* Kew Bull. 34 (1980) 811-812.

CRAVEN, L.A. *Eight new species of Homalium (Flacourtiaceae) from Papuasia.* Brunonia 2 (1979) 107-124, 9 fig. 11 species are now known from Papua; 8 new species; key.

----- *A new Rhododendron (Ericaceae) from Papua New Guinea.* Notes R.Bot. Gard. Edinb. 38 (1980) 141-144, 1 fig. R. rubineiflorum n.sp. closely allied to and confused with R. angustiflorum, assumed to be distinct.

CRIBB, P.J. *Three new species of Dendrobium section Ceratobium from Papua New Guinea.* The Orchadian 6 (1980) 174-178, illus.

----- *Dendrobium polysema (Orchidaceae).* Curtis Bot. Mag. n.s. 183 (1980) 25-28, 1 fig., tab. 798. From New Guinea; key to the 8 taxa of sect. Latouria with setose ovaries.

CROAT, T.B. *The distribution of Araceae.* In: K. Larsen & L.B. Holm-Nielsen (eds.), *Tropical Botany.* Acad. Press London (1979) 291-308, 4 tab. Distribution tabulated; also subfamilies briefly commented.

CROWTHER, J. *The Gunong Gajah-Tempurong Massif, Perak, and its associated cave system, Gua Tempurong.* Mal. Nat. J. 32 (1978) 1-17, 2 fig. Description of this limestone hill; plea for conservation; no botanical data.

CUILLEN, J. *A revision of Rhododendron. 1. Subgenus Rhododendron sections Rhododendron & Pogonanthum.* Notes R.Bot. Gard. Edinb. 39 (1980) 1-207, 58 maps, 5 tab., 4 fig. First part of a complete revision; with keys.

----- *Rhododendron taxonomy and nomenclature.* In: J.L. Luteyn & M.E. O'Brien (eds.), *Contrib. toward a classification of Rhododendron:* 27-38, 4 fig. New York Bot. Gard. (1980).

- *CURTIS,W. *The student's Flora of Tasmania.* Part 4A (21 Jan. 1980) 138 pp. Govt.Printer Tasmania, G.P.O. Box 307c, Hobart.
- DANIMIHARDJA,S. *Parahulu (Amomum aculeatum Roxb.) serta potensinya sebagai tanaman hias.* Bul.Kebun Raya 4 (1979) 59-62, 2 fig. In Indon. Potential ornamental.
- DARWIN,S.P. *Notes on Airosperma (Rubiaceae), with a new species from Fiji.* J.Arnb.Arnb. 61 (1980) 95-105, 6 fig. Key to 6 spp. incl. 2 from Fiji (1 n.sp., 1 transferred from Psy-chotria and Abramsia). Formerly genus only known from New Guinea.
- *DASSANAYAKE,M.D. (ed.), *A revised handbook to the flora of Ceylon, vol. 1* (1980) — Reviewed on page 3601.
- DAVIES,F.G. *The genus Gynura (Compositae) in India, Sri Lanka and the Seychelles.* Kew Bull. 35 (1980) 363-367. Descr.; syn.; key to 7 spp.
- DEB,D.B., S.K.MONDAL & K.C.MALICK, *Identification of seeds of Hydnocarpus and Gynocardia (Flacourtiaceae).* Bull.Bot.Surv.India 20 (1978; publ. 1979) 31-35, 5 fig., 1 pl. Key to seeds of 5 taxa.
- DEHGAN,B. & G.L.WEBSTER, *Morphology and infrageneric relationships of the genus Jatropha (Euphorbiaceae).* Univ.Calif.Publ.Bot. 74 (1979) 1-73, 33 pl., 4 fig., 1 tab. Extensive morphology; pollen; chromosomes; synoptic key to subgenera, sections and subsections; checklist of species; references; excellent photographs, also of seedling types and seeds.
- DELENDICK,Th.J. *The correct name for the Acer of Malesia.* Reinwardtia 9 (1980) 395-397. A. laurinum Hassk.; superfluous note, see Fl.Males. i 4 (1954) 592.
- DEORI,N.C. *Pantlingia serrata Deori sp.nov. (Orchidaceae), a second species of the genus from Meghalaya.* Bull.Bot.Surv.India 20 (1978; publ. 1979) 175-176, 3 fig.
- & J.JOSEPH, *Pholidota convallariae var. breviscapa - a new variety of orchid from Arunachal Pradesh.* Bull.Bot.Surv.India 20 (1978; publ. 1979) 159-160, 5 fig.
- DESHPANDE,U.R. & N.P.SINGH, *An interesting grass from Maharashtra.* J. Bomb.Nat.Hist.Soc. 76 (1979; publ. 1980) 204-205, 1 fig. Eremopogon tuberculatus.
- , ----- & R.S.RAGHAVAN, *Rediscovery of the rare grass Parhyparrhenia bellariensis (Hack.) Clayton.* Bull.Bot.Surv.India 20 (1978; publ. 1979) 149-150, 1 fig. From India.
- *DRANSFIELD,J. *A manual of the rattans of the Malay Peninsula.* Malay.For. Records no 29. For.Dept.Malaysia (1979) v + 270 pp., many drawings. Reviewed on page 3603.

- *Retispatha*, a new Bornean rattan genus (*Palmae: Lepidocaryoideae*). Kew Bull. 34 (1980) 529-536, 3 fig. N.g. n.sp. from Borneo.
- *Pogonotium* (*Palmae: Lepidocaryoideae*), a new genus related to *Daemorrops*. Kew Bull. 34 (1980) 761-768, 1 fig., 1 tab. 1 new comb., 1 n.sp. in a new genus; Borneo, Malaya.
- Systematic notes on *Pinanga* (*Palmae*) in Borneo. Kew Bull. 34 (1980) 769-788, 5 fig. 12 spp. listed, often with new synonyms; several n.spp. *Pseudopinanga* reduced.
- Systematic notes on some Bornean *palmae*. Bot.J.Linn.Soc. 81 (1980) 4-42, 14 fig. A number of new spp., comb. and critical remarks in the genera *Plectocomiopsis*, *Calamus*, *Daemonorrops*, *Licuala*, *Areca*, *Salacca*, *Arenga*, *Pichisermollia*.
- DRANSFIELD, Soejatmi, Three new Malesian species of *Gramineae*. Reinwardtia 9 (1980) 385-392, 3 fig. *Racemobambos* (1 sp., Seram), *Nastus* (1 sp., Flores), *Cymbopogon* (1 sp., Sulawesi).
- DUKE, N.C. & J.S. BUNT, The genus *Rhizophora* (*Rhizophoraceae*) in North-eastern Australia. Austr.J.Bot. 27 (1979) 657-678, 9 fig., 5 tab. 4 spp. keyed out, incl. *R. lamarckii*, a new record for Australia.
- ECK-BORSBOOM, M.H.J. van, A revision of *Eriachne* R.Br. (*Gramineae*) in Asia and Malesia. Blumea 26 (1980) 127-138, 1 fig. Incl. *Massia Balansa* as a synonym; key to 4 spp. and varieties; identification list.
- EGOROVA, T. & NGUYEN KHAC KHOI, Conspectus generum *Scirpus* L., *Eriophorum* L., *Fuirena* Rottb. et *Eleocharis* R.Br. Flora of Vietnam. Nov.Syst. Pl.Vasc. 17 (1980) 54-63. In Russian. Species listed; no novelties.
- ELLIS, J.L. Studies in *Justicia* Linn. - I. Bull.Bot.Surv.India 20 (1978; publ. 1979) 172. 1 new combination.
- ENDRESS, P.K. Ontogeny, function and evolution of extreme floral construction in *Monimiaceae*. Pl.Syst.Evol. 134 (1980) 79-120, 89 fig. Flower details on hyperstigma.
- The reproductive structures and systematic position of the Austro-baileyaceae. Bot.Jahrb. 101 (1980) 393-433, 74 fig. Many details of this primitive Queensland plant of Ranales.
- & R. HONEGGER, The pollen of the Austrobaileyaceae and its phylogenetic significance. Grana 19 (1980) 177-182, 6 fig. Pollen very primitive, resembling the fossil *Clavatipollenites*; archaic type.

- ESSIG, F.B. *Sommieria affinis (Palmae) in Papua New Guinea.* Principes 23 (1979) 156-157, 1 fig.
Now also collected in Papua New Guinea.
- *Ptychosperma hosinoi growing in Hawaii.* (Palm.) Principes 23 (1979) 174-175, 1 phot.
In Lyon arboretum.
- *The genus Orania Zipp. (Arecaceae) in New Guinea.* Lyonia 1 (1980) 211-233, 12 fig., 1 map.
Key to 17 spp. and description of the 9 Papuan spp. (4 new).
- & B.E. YOUNG, *Palm collecting in Papua New Guinea. I. The Northeast.* Principes 24 (1980) 14-28, 16 fig.
Well-illustrated field report.
- EUSSEN, J.H.H. & S. WIRJAHARDJA, *Pioneer plants in the secondary forest establishment.* BIOTROP Bull. no 11 (1979) 245-251, 1 fig., 4 tab.
Observations in Imperata-Eupatorium stands in a rubber estate.
- FADEN, R.B. *The taxonomy and nomenclature of some Asiatic species of Murdannia (Commelinaceae): the identity of Commelina medica Lour. and Commelina tuberosa Lour.* Taxon 29 (1980) 71-83, 3 fig., 1 tab.
Key and synonymy of 3 species (2 new combinations).
- FANG, Ding, *Some new taxa of Zingiberaceae from Guangxi (3).* Acta Phytotax. Sin. 18, no 2 (1980) 224-226. In Chinese.
6 new species in several genera.
- *Two new taxa of Camellia sect. Chrysanthia (Theaceae) from Guangxi.* Acta Bot. Yunnanica 2 (1980) 337-340, 2 fig. In Chinese.
2 new species.
- & Xiu-xiang CHEN, *Two new species and a new combination of medicinal plants in Guangxi.* Acta Phytotax. Sin. 18, no 2 (1980) 227-229, 2 fig. In Chinese.
New spp. in Alstonia and Trachelospermum; new comb. in Camellia.
- *FANG, Rhui-cheng & Shu-hua HUANG, *Convolvulaceae, Polemoniaceae and Hydrophyllaceae.* Flora Reipubl. Pop. Sinicae 64 (1) (1979) 184 pp., 33 pl. In Chinese.
Taxonomic treatment; a few novelties.
- FANG, Wen-pei, *Praecursores Florae Alangiacearum Sinensis.* Acta Sci. Nat. Univ. Szechuan (1979) (2) 91-99, 8 fig. In Chinese.
Key; several species (1 new), several new varieties or var. combs.
- FANG, Wen-zhe & Kan YAO, *Materials on the genus of Ardisia Sw. (Myrsinaceae).* Acta Phytotax. Sin. 17, no 4 (1979) 99-100. In Chinese.
Some critical notes; new comb.
- *FAO/UNESCO, *Soil map of the world, 1:5,000,000. Vol. IX Southeast Asia* (1979) — Reviewed on page 3605.

- FEDOROV,A.A. *The family Dipterocarpaceae Blume and the evolution of plants.* In: S.G.Zilin (ed.), *Sistematika i evoljucija ryssich ras-tenij:* 92-100. Leningrad (1980). In Russian.
- FEINHANDLER,S.J., H.C.FLEMING & J.M.MONAHON, *Pre-Columbian tobaccos in the Pacific.* Economic Botany 33 (1979) 213-226, 2 fig.
Confusion about native and cultivated tobacco in New Guinea.
- FENG,Kuo-mei & Hen LI, *A new species of Orchidaceae from Cymbidium.* Acta Bot.Yunnanica 2 (1980) 334-336, 1 fig. In Chinese.
- FERNANDO,E.S. *Baccaurea (Euphorbiaceae) in the Philippines.* Kalikasan 8 (1979) 301-312, 4 fig.
Key and description of 4 species.
- FILLIAS,F. c.s. *Amaranthus blitum vs. A. lividus (Amaranthaceae).* Taxon 29 (1980) 149-150.
- FISHER,J.B. *The vegetative and reproductive structure of Papaya ('Carica papaya)* Lyonia 1 (1980) 191-208, 6 fig.
Anatomy; morphology.
- & J.P.MOGEA, *Intrapetiolar inflorescence buds in Salacca (Palmae): development and significance.* Bot.J.Linn.Soc. 81 (1980) 47-59, 15 fig.
Morphology and phenology in Salacca; Eleiodoxa retained separately.
- *FLORA INDONESIA (Marah Maradjo, Gen.Ed.) (1967-77) — Reviewed on page 3606.
- *FLORA OF TAIWAN. Vol. 6 (1979) 665 pp. Contains the indices to the 5 text volumes. — See Review on page 3443.
- FONG,Foo-woon, *Edaphic conditions under Bertam (Eugeissona tristis Griff.) on seraya ridge forests.* Trop.Ecol. 18 (1977) 60-70, 1 fig., 3 tab.
Soil factors influencing development.
- Autecological studies on Eugeissona tristis Griff. Malaysian J.Sci. 5 (1978) 93-108, 4 fig., 1 pl., 6 tab.
Floral morphology, ecology, germination.
- FORMAN,L.L. *New Menispermaceae from Thailand.* Kew Bull. 34 (1980) 561-567, 3 fig.
New species in Cissampelos, Stephania and Cyclea atjehensis reported from Thailand.
- *FOSBERG,F.R., D.OTOBED & M.-H.SACHET, *Vascular plants of Palau with vernacular names.* Dept.Bot., Smithsonian Inst. Washington, D.C. (March 1980) 43 pp. mimeogr.
- & S.A.RENVOICE, *The Flora of Aldabra and neighbouring islands* (1980) — Reviewed on page 3606.
- & M.-H.SACHET, *Systematic studies of Micronesian plants.* Smithson. Contr.Bot. no 45 (1980) 1-40, 2 fig. (1 map).
Many name changes, new infraspecific taxa in various families. Keys to Geniostoma & Fagraea; Wollastonia reinstated. Corrections.

- , ----- & R.OLIVER, *A geographical checklist of the Micronesian Dicotyledonae*. *Micronesica* 15 (1979) 41-295.
1342 taxa listed (662 indigenous, c. 300 endemic).
- FOURNIER,M. *Hortus Malabaricus of Hendrik Adriaan van Reede tot Drakestein*.
In: K.S.Manilal (ed.), *Botany & History of Hortus Malabaricus* (1980) 6-24, 3 fig.
Biogr. and genesis of MS. and public. of *Hortus Malabaricus*.
- FOX,J.E.D. *The natural vegetation of Sabah, Malaysia. 1. The physical environment and classification*. *Trop.Ecol.* 19 (1978) 218-239, 1 map, 5 tab.
Discussions on forest composition and dominants.
- FRIIS,Ib, *The authority and date of publication of the genus Casuarina and its type species*. *Taxon* 29 (1980) 499-501.
Casuarina L. 1759 (*C. equisetifolia*).
- *FRYXELL,P.A. *The Natural History of the Cotton Tribe*. Texas A&M Univ. Press, College Station (1980) xviii + 245 pp.
Malv. tribe Gossypieae; keys to genera and species; synonymy; one figure for each genus; chromosomes; evolution; ecology.
- FUKUOKA,N. *Notes on the Rubiaceae from Thailand. 1. Acta Phytotax.Geobot.* 30 (1979) 131-133, 1 fig.
Note on *Mitrocarpum* and *Borreria*.
- *GARDNER,C.A. *Eucalypts of Western Australia*. Ed. by T.E.H.Aplin. West. Austr.Dept.Agric.Bull. 4013 (1979) 260 pp.
- GARNOCK-JONES,P.J. *Plant communities on Lakeba and Southern Vanua Balavu, Lau Group, Fiji*. Lau-Tonga (1977) 95-117, fig. 29-40.
Vegetation and plant list.
- & H.J.LANGER, *Parahebe catarractae (Scrophulariaceae): infraspecific taxonomy*. *New Zeal.J.Bot.* 18 (1980) 285-298, 7 fig., 3 tab.
4 subspecies.
- GENERALAO,M.L. *An overview of rattan production research in the Philippines*. *Canopy International* 5, no 11 (1979) 10-11.
- GODLEY,E.J. *Cushion bogs*. Erdwiss.Forschung Bd 11 (ed. W.Troll & W. Lauer). Wiesbaden, Steiner GmbH (1978) 141-158, 3 fig., 10 phot.
Surveys of representatives in South America, Tasmania, New Zealand and New Guinea. See also page 3461.
- GOETGHEBEUR,P. *Studies in Cyperaceae. 2. Contribution towards a revision of the mainly African genus Ascolepis Nees ex Steudel*. *Adansonia* sér.2, 19/3 (1979) 269-305, 13 pl.
Key to 19 species, mainly African; a single subspecies in Laos, Thailand and Vietnam!
- GOTZWALD,H. & N.PARAMESWARAN, *Anatomy of wood and bark of *Tectona* (Verbenaceae) in relation to taxonomy*. *Bot.Jahrb.* 101 (1980) 363-384, 21 fig., 3 tab.
Strengthens 2 sections (3 spp. in all); affinities to other genera.

- GOUDSWAARD, P.C. *The genus Zoysia (Gramineae) in Malesia.* Blumea 26 (1980) 169-175, 1 map.
Only one species. Identification list.
- GOULDING, J.H. *Annotated checklist of type specimens of New Zealand plants in the Auckland Institute and Museum Herbarium. Part 4. Monocotyledons - except Gramineae.* Rec.Auckl.Inst.Mus. 16 (1980) 87-104, 4 fig.
Mostly dealing with Cyperaceae and Orchidaceae.
- GRAAF, A.de, *Cryptocoryne ferruginea Engler or Cryptocoryne sarawacensis (Rataj) Jacobsen.* Het Aquarium 50 (1980) 299, 2 fig.
Notes on synonymy.
- GREEN, J.W. *Corynanthera, a new genus of Myrtaceae (Subfamily Leptospermoideae, Tribe Chamelaucieae).* Nuytsia 2 (1979) 368-374, 27 fig.
N.g. n.sp. from W. Australia; anthers aberrant in Myrtaceae.
- GREEN, P.S. *Observations on the phytogeography of the New Hebrides, Lord Howe Island and Norfolk Island.* In: D.Bramwell (ed.), Plants and Islands. Acad.Press London (1979) 41-53, 1 map.
Comparison with other SW. Pacific islands; many new data of generic distribution cited.
- *Chionanthus retusus (Oleac.).* Curtis Bot. Mag. n.s. 182 (1979) 1-4, 1 fig., tab. 785.
From China, Korea and Taiwan.
- GREENWAY, M. *Halophila tricostata (Hydrocharitaceae), a new species of seagrass from the Great Barrier Reef region.* Aquatic Botany 7 (1979) 67-70, 2 fig.
A new sect. Tricostatae for this species with sessile leaves.
- GREGOR, H.-J. & K.GOTH, *Erster Nachweis der Gattung Canarium Stickman 1759 (Burseraceae) im europäischen Alttertiär.* Stuttg.Bctr.Naturk. ser. B, no 47 (1979) 1-15, 4 fig., 2 pl.
Czechoslovakian subtrop. assemblage incl. Symplocos, Mastixia, Celastrus, Carya, Celtis, ?Schima, Fagus; from Lower Oligocene. First fossil find of Canarium far from SE. Asia.
- GREGORY, T. *Some thoughts on Dendrobium gracilicaule F.Muell.* The Orchadian 6 (1980) 155-156, 2 phot.
Australian orchid.
- *Some thoughts on Dendrobium speciosum J.E.Smith.* The Orchadian 6 (1980) 184-186, 2 phot.
Variation in this Queensland species.
- * GREY-WILSON, C. *Impatiens of Africa.* Balkema, Rotterdam (1980) 235 pp., 168 fig., 128 maps, 51 col.phot.
Monograph; 110 spp.; key; extensive treatment of morphology, pollination, hybridization, geography and ecology of African spp. Notes on cultivation and preparation for the herbarium. Though none of the African spp. occur in Asia, a very important book.

- *Impatiens in Papuasia. Studies in Balsaminaceae: I.* Kew Bull. 34 (1980) 661-688, 7 fig., 2 maps, 2 tab.
Only one variable species, *I. hawkeri*, with 15 geographical populations. A close analysis.
- *Notes on collecting Impatiens (Balsaminaceae).* Fl.Males.Bull. no 33 (1980) 3435-3436.
- *The Impatiens appendiculata complex in Ceylon. Studies in Balsaminaceae. IV.* Kew Bull. 35 (1980) 203-211, 2 fig., 1 map.
Incl. 2 new species from Ceylon; key to 4 species.
- GRIERSON, A.J.C. *Compositae.* Revised Handb. Fl. Ceylon ed. New Delhi 1 (1980) 111-278. — See page 3602.
- GUINET, Ph. & I. NIELSEN, *A new combination in the genus Schleinitzia (Leguminosae-Mimosoideae).* Adansonia sér. 2, 20 (1980) 165-167, 1 fig.
Albizia megaladenia Merr. from Luzon is transferred to *Schleinitzia* as the fourth species (others in Pacific, New Guinea and Micronesia).
- GUPTA, V.B. *A contribution to the flora of Bami-Bareli Range (Raisen District), M.P.* J. Bomb. Nat. Hist. Soc. 74 Suppl. (1979) 657-682.
Name list.
- HAAS, A.J.P. de, M.T.M. BOSMAN & R. GEESINK, *Urariopsis reduced to Uraria (Leguminosae-Papilionoideae).* Blumea 26 (1980) 439-444, 2 fig.
The record from Java of *Urariopsis cordifolia* rests on a misidentification; tabulated key to 13 species.
- HAJRA, P.K. *Notes on distribution of some plants.* J. Bomb. Nat. Hist. Soc. 75 (1979) 942-943.
10 records.
- HALLÉ, F. *Premières données architecturales sur les Dipterocarpaceae.* Mém. Mus. Natn. Hist. Nat. Paris sér. B Bot. 26 (1979) 20-34, 14 fig.
- *Lomandra insularis* Schlechter: notes phyllotaxiques sur une bonne espèce de Liliacées de Nouvelle-Calédonie. Adansonia sér. 2, 20/1 (1980) 21-28, 5 fig. (& map).
Morphology; geography.
- HAMBALI, G.G. *On mistletoe parasitism.* Proc. 6th Asian-Pacific Weed Sci. Soc. Conf. Jakart (June 1977) vol. 1, p. 58-66.
A number of observations on the ecology for the control; hyperparasitism, etc.
- *Wild populations of Colocasia esculenta on the slopes of Mt Gedé, West Java.* Berita Biologi 2 (2) (July 1977) 40-41.
How to distinguish the two varieties of *C. esculenta* (var. *esculenta* and var. *antiquorum*).
- *The dispersal of taro by common palm civets.* IFS, Provis. Reports 5 (1979) 29-34.
Dispersal data; civets may have played an important role in early domestication.

- *A new species of Balanophora from the Malay Peninsula.* Reinwardtia 9 (1980) 425-427, 1 fig.
Remarkable addition; species with elongated rhizomes.
- * HAMILTON,W. *Tectonics of the Indonesian Region* (1979) — Reviewed on page 3607.
- * HANBURY-TENISON,R. *Mulu. The rain forest.* Weidenfeld & Nicolson, London (1980) xi + 176 pp., 45 phot., 2 maps. 8°.
Lavishly illustrated general account of the colossal exploration of Mt Mulu, Sarawak, the large National Park. General description of the rugged terrain, with sketches of the geology, vegetation and fauna. Lists of birds and mammals. Account of forest ecology; the gigantic caves history of exploration. Digest of provisional reports of the many dozens specialists. — Reviewed on page 3608.
- HANSEN,C. *Neodriesenia membranifolia* (Li) C.Hansen, comb.nov. (Melastomataceae). Adansonia 20/3 (1980) 321-324, 2 fig.
Transfer of a Blastus sp. from Tonkin to this formerly endemic genus of Borneo; 1 new combination.
- *A revision of Barthea.* (Melast.) Notes R.Bot.Gard.Edinb. 38 (1980) 489-493, 2 fig. (map).
Monotypic; Taiwan and China.
- HARA,H. *Comments on the East Asiatic plants (?)*. J.Jap.Bot. 55 (1980) 209-214.
Forms of *Persicaria sagittata*.
- *Ditto* (8). J.Jap.Bot. 55 (1980) 321-327.
Critical notes on some Dicliptera (Acanth.), a Lindenia, 1 Artemisia, 1 Phragmites.
- * t HART,E. & J.F. VELDKAMP, *A revision of Elaeagnus (Elaeagnaceae) in Malesia.* Blumea 26 (1980) 393-401.
3 taxa (2 spp.) recognized; key; identification list; revision principally based on Leiden material.
- * HARTLEY,W. *A checklist of economic plants in Australia.* CSIRO Melbourne (1979) 214 pp.
2 Name lists, one by Latin names, one by vernaculars. Bibliography from which data are abstracted.
- HASSAN-UD-DIN & S.A.GHAZANFAR, *Rutaceae.* Flora of Pakistan no 132 (April 1980) 29 pp., 5 fig.
11 genera with 27 species.
- HATUSIMA,S. *A new species of Boehmeria from the Ryukyus.* (Urtic.) J.Phytogeogr. & Taxon. 27 (1979) 34.
- HE,Ting-nong & Shang-wu LIU, *New taxa of Swertia L. from China.* (Gent.) Acta Phytotax.Sin. 18, no 1 (1980) 75-85, 11 fig. In Chinese.
Critical name list, incl. 7 new species.

*HEALY,A.J. & E.EDGAR, *Flora of New Zealand. Vol. 3. Adventive cyperaceous, petalous and spathaceous Monocotyledons.* Govt.Printer, Wellington (1980) xlii + 220 pp., 27 fig., 4 col.pl.

Critical account of 168 introduced species. Keys to families, genera and species; two general keys, one for sterile material. Carex and Luzula the largest genera. Of all genera also the native species are taken into account.

HEDEGAARD,J. *Morphological studies in the genus Rhododendron, dealing with seeds, fruits and seedlings and their associated hairs.* In: J.L.Luteyn & M.E.O'Brien (eds.), *Contrib.toward a classification of Rhododendron:* 117-144, 20 fig. New York Bot. Gard. (1980).

HEDGE,I.C. & J.M.LAMOND, *Notes on Umbelliferae: some Asiatic Scandiceae.* Notes R.Bot.Gard.Edinb. 38 (1980) 251-257.
10 taxa; 1 new species, some new combinations.

HENIGER,J. *Van Reede's preface to Volume III of Hortus Malabaricus and its historical and political significance.* In: K.S.Manilal (ed.), *Botany & History of Hortus Malabaricus* (1980) 35-69.
Extensive biographical notes, with notes on preface, collaborators etc.

HENNING,I. *Nebelklimate und Nebelwälder. Ein Beitrag zu ihrer Klassifikation.* Erdwiss.Forschung Bd 11 (ed. W.Troll & W.Lauer). Wiesbaden, Steiner GmbH (1978) 281-312, 5 fig., 8 phot.

HENRY,A.N. *The Madras Herbarium at Coimbatore (MH).* Bull.Bot.Surv.India 19 (1977; publ. 1979) 225-227.

-----, M.CHANDRABOSE & N.C.NAIR, '*Belluta-kanneli*' of *Hortus Malabaricus: Syzygium zeylanicum* (Linn.) DC. and its varieties (Myrtaceae) in South India. In: K.S.Manilal (ed.), *Botany & History of Hortus Malabaricus* (1980) 159-162, 1 fig.
1 new variety.

-----, K.VIVEKANANTHAN & N.C.NAIR, *Rare and threatened flowering plants of South India.* J.Bomb.Nat.Hist.Soc. 75 (1979) 684-697.
Catalogue of 224 species.

*HENSHALL,T. c.s. *Warlpiri Bush Medicine.* Warlpiri Literature Production Centre, Inc. (available from the Secretary, SGAP, 34 Bloomfield Street, Alice Springs, N.T. 5750). \$ 3.
18 species described and photographed. Text in English and Warlpiri language; kind of self-help mini-pharmacopeia. Central Australia.

HERBST,D. *Miscellaneous notes on the Hawaiian flora. I.* Phytologia 45 (1980) 67-81, 1 tab.
Various notes; no name changes.

HIDAYAT,E. *Sindora, jenis kayu penghasil resin.* Bul.Kebun Raya 4 (1979) 67-70, 1 fig. In Indonesian.
General on resin producing plants; especially Sindora.

- HIEPKO,P. *A revision of Opiliaceae I. Genera of the eastern Old World, excluding Opilia.* Willdenowia 9 (1978) 13-56, 19 fig. & maps. Full taxonomical treatment of 5 genera and one section, all endemic in the Indo-Australian area, totalling 12 spp. (1 n.sp. in Urobotrya, 1 new ssp. from Borneo). Key; excellent figures; identification list; several reductions.
- & W.SCHULTZE-MOTEL, *Forschungen im Bergland von Neu-Guinea.* Staatl. Mus.Berlin, M.f.Volkerkunde, Abt.Sudsee, Forsch.projekt Botanik (1979) 2 pp. Vegetation sketch of Eipomek Valley, Irian Jaya, c. 1800 m alt.; with ethnobotanical notes.
- * HIROE,M. *Umbelliferae of the World.* Ariake Book Co., Matsuo Biro, 8-10 Hongo 6-chome, Bunkyo-ku, Tokyo (1979) 2128 pp. Price Y 50,000. Not seen.
- HNATIUK,R.J. *The growth of tussock grasses on an equatorial high mountain and on two sub-antarctic islands.* Erdwiss.Forschung Bd 11 (ed. W. Troll & W.Lauer). Wiesbaden, Steiner GmbH (1978) 159-190, illus. Incl. observation on Mt Wilhelm (New Guinea). Growth rates. — See also page 3461.
- HO,Ting-nung & Shang-wu LIU, *Lomatogoniopsis T.N.Ho et S.W.Liu - a new genus of Gentianaceae.* Acta Phytotax.Sin. 18 (1980) 466-468, 1 fig. Allied to Lomatogonium R.Br. In Chinese.
- HODEL,D. *Notes on Pritchardia in Hawaii.* Principes 24 (1980) 65-81, 10 fig. & maps, 1 tab.
- * HOLM,L.G., D.L.PLUCKNETT, J.V.PANCHO & J.P.HERBERGER, *The world's worst weeds. Distribution and biology.* East-West Center, Univ.Hawaii Press, Honolulu (1977) xii + 609 pp., 220 fig. & maps. Lengthy treatments of 76 weeds, most of them tropical; incl. some aquatics. Each provided with a figure and range map. Choice is rather arbitrary; why Anagallis arvensis, Sphenoclea, Argemone, Eclipta, Striga and not Hyptis sp.? In this respect the word 'worst' in the title is somewhat misleading. A large amount of information is assembled for each species. For the different crops the most important species are listed. Several bibliographies and a glossary are presented.
- HOLM-NIELSEN,L.B. *Comments on the distribution and evolution of the genus Phyllanthus (Euphorbiaceae).* In: K.Larsen & L.B.Holm-Nielsen (eds.), Tropical Botany. Acad.Press London (1979) 277-290, 11 maps. Maps of subgenera and sections.
- HONG,De-yuan, *Wulfeniopsis Hong - a new genus of Scrophulariaceae from Himalaya.* Acta Phytotax.Sin. 18, no 1 (1980) 50-52, 1 tab. Based on a Wulfenia species. In Chinese.
- *New taxa of Campanulaceae from Xizang.* Acta Phytotax.Sin. 18, no 2 (1980) 245-247, 2 fig. In Chinese. Several new species in different genera.

----- *Homocodon* Hong - a new genus of Campanulaceae from China. *Acta Phytotax.Sin.* 18 (1980) 473-475, 1 fig. In Chinese.
New comb., based on *Wahlenbergia brevipes* Hemsl. (*Heterocodon brevipes* H.M.).

HOPPER,S.D. Biogeographical aspects of speciation in the southwest Australian flora. *Ann.Rev.Ecol.Syst.* 10 (1979) 399-422, 4 maps, 1 tab. A sketch of the history of evolutionary development of the flora; drought zones play an exorbitant role; the transitional rain-fall zone is assumed to harbour most early relicts and thus remained richest until the present in endemics in the heathlands; the very high present endemism is ascribed as a consequence of progressive aridity in the late Tertiary. There are debatable speculations.

HORTON,P. Taxonomic account of *Nicandra* (Solanaceae) in Australia. *J. Adelaide Bot.Gard.* 1 (1979) 351-356, 2 fig. Chromosomes; range.

HSIAU,Pei-ken, Wen-tsai WANG, c.s. *Ranunculaceae*. *Flora Reipubl. Pop. Sinicae* 27 (1979) 25-621, many figs. Many new species in *Aconitum*, *Delphinium*, *Thalictrum*.

HSU,Ping-sheng & Lin-chu LI, A quantitative analysis of herbarium materials of the *Photinia villosa* complex. (Rosac.) *Acta Phytotax.Sin.* 18 (1980) 259-265, 4 fig., 2 tab. In Chinese.
Key to 4 varieties.

----- & Han-jin WANG, *Taxa nova Lonicerae sinicarum*. (Caprif.) *Acta Phytotax.Sin.* 17, no 4 (1979) 75-83, 12 fig. In Chinese.
New varieties and many new species.

HSU,Yun-chun & Hsien-wei JEN, New species and new combinations of Fagaceae from China. *Acta Bot.Yunnanica* 1, no 1 (1979) 146-148. In Chinese.
14 new combinations or new species in *Cyclobalanopsis*.

HSUEH,Chi-ju & Tong-pei YI, Two new genera of Bambusoideae from S.W. China. 1. *Chimonocalamus* Hsueh et Yi. 2. *Qiongzhuea* Hsueh et Yi. *Acta Bot. Yunnanica* 1, no 2 (1979) 74-91, 8 fig.; *ibid.* (1980) 92-99, 4 fig. In Chinese.
In the first 10 spp. (8 new, 2 transferred from *Arundinaria*), in the second 3 new spp.

HU,Lin-chen, *Revisio Florae Clethracearum Sinensium*. *Acta Sc.Nat.Univ. Szechuan* 1979, no 3 (1979) 101-124. In Chinese.
Key to 17 spp. (with 18 vars.), among which 7 new spp. and 13 new varieties.

HU,Shiu-ying, The *Metasequoia* flora and its phytogeographic significance. *J.Arnb.Arnb.* 61 (1980) 41-94, 7 maps, 3 tab., 1 fig.
History of finding this; associates listed.

----- *Eleutherococcus* vs. *Acanthopanax*. *J.Arnb.Arnb.* 61 (1980) 107-111.
C. 24 new comb. under *Eleutherococcus* Maxim. by reduction of *Acanthopanax* (Decne & Planch.) Miq.

- HUANG, Se-zei, *A new species of Chirita from Guangxi.* (Gesner.) *Acta Bot. Yunnanica* 2 (1980) 102-105, 1 pl. In Chinese.
- HUNT, D.R. *Berberis dasystachya* (Berb.), tab. 784; *Rhododendron aurigeratum* (Eric.), tab. 787; *Lindera praecox* (Laur.), tab. 791; *Persea ichangensis* (Laur.), tab. 793. *Curtis Bot. Mag. n.s.* 182 (1979); *ibid.* 183 (1980).
- HWANG, Shu-me, *A preliminary study on the family Styracaceae from China.* *Acta Phytotax. Sin.* 18, no 2 (1980) 154-167, 4 fig. In Chinese. 48 spp. (2 new in *Styrax* and *Huodendron*); no key.
- HYNNIEWTA, T.M. *Record of Eria bractescens Lindl. from Nagaland.* (Orch.) *J.Bomb.Nat.Hist.Soc.* 76 (1979; publ. 1980) 548-549, 1 fig.
- & C.L. MALHOTRA, *A new species of Sunipia Lindl. (Orchidaceae) from Nagaland.* *J.Indian Bot.Soc.* 57 (1978) 31-33, 1 fig.
Key to 2 species.
- *IGARASHI, S. *Food plants of Papilionidae.* Tokyo (1979) 102 plates, each of several photographs. 4°.
The author (director of a construction company and vice-president of the Butterfly Society of Japan) published this magnificent atlas. Each plate depicts a single plant species, mostly habit and close-up, with the names of the butterflies living on it. Botanically it is in so far interesting that these species are from many places in SE. Asia, also from Nepal and Palawan for example. Their names are rather approximate for naming, but the photographs are sufficient for identification; there are many *Aristolochia* species.
- IMELDA, M. *Calanthe triplicata (Willem.) Ames., bunga tiga lapis yang indah.* *Bul.Kebun Raya* 4 (1979) 71-76, 2 fig., 1 tab. In Indonesian.
Notes on ornamental potential.
- INOUE, K. & Tsan-piao LIN, *Orchid genus, Platanthera of Taiwan.* *J.Phyto-geogr. & Taxon.Japan (J.Geobot.)* 28 (1980) 1-13, 10 fig.
Key to 9 taxa (1 new sp., 1 new comb.).
- IRION, G. & T. PETR, *Mangrovensedimente am Golf von Papua.* *Natur & Museum* 109 (1979) 297-304, 7 fig.
Pedologic sediment observations at the mouth of Purari R.; differences with temperate conditions.
- ITO, K. *On two orchidaceous plants new to Hokkaido.* *J.Jap.Bot.* 55 (1980) 101-104.
Extended ranges.
- IWATSUKI, K., J.P. MOGEA, G. MURATA & K. KARTAWINATA, *A botanical survey in Kalimantan during 1978-79.* *Acta Phytotax. Geobot.* 31 (1980) 1-23, 14 fig.
Vegetation description of 12 map-dotted localities visited, with observations on climate, soils and geology. More than 15,000 collecting numbers were added to the score.

JACOBS,M. *Vanishing species: things wrong between Man and Nature.* Fl. Males.Bull. no 33 (1980) 3427-3431.

----- *Revolutions in plant description.* Landbouwhogesch. Wageningen Misc. Pap. 19 (1980) 155-181, 8 fig.

Examples of Arenga show that plants are described very differently; this corresponds with different cultural periods, initiated by revolutions, viz in 1530-1550, 1735-1753, and c. 1900. This has consequences for taxonomy and its place in society.—M.J.

JACOBS,S.W.L. & A.WILLIAMS, *Notes on the genus Zostera s.lat. in New South Wales.* Telopea 1 (1980) 451-455.

Distribution of 3 species.

*JACOBSEN,N. *Cryptocoryner.* Clausen Bøger, Copenhagen (1979) 112 pp., many illus., partly in colour. In Danish.

Treatment of all species; several reductions; chromosomes.

----- *The Cryptocoryne albida group of mainland Asia (Araceae).* Misc.Pap. Landbouwhogesch.Wageningen 19 (1980) 183-204, 13 fig.

Key and field data with critical notes on C. albida, C. crispatula and C. retrospiralis; synonymy; chromosomes.

----- *Does Cryptocoryne ferruginea flower at full moon?* Aroideana 3 (1980) 111-116, 6 fig.

Various notes on habit and habitat of Cryptocoryne species.

----- *A new species of Cryptocoryne from Sumatra.* Aroideana 3 (1980) 118-119, 1 fig.

*JAFARSIDIK,Y.S. & M.SOETARTO, *Jenis-jenis tumbuhan obat di beberapa hutan di Jawa Timur dan Bali serta pemanfaatan dan pengembangannya. (Medicinal plants in some forests of East Java and Bali, and their uses and development).* Lembaga Penelitian Hutan, Bogor; Laporan no 346 (Aug. 1980) 64 pp. In Indonesian.

Medicinal plants in some forests of East Java and Bali; names listed; some species closer described.

JAIN,S.K. & U.R.DESHPANDE, *Transfer of some Indian species of Bothriochloa and Capillipedium to Dichanthium.* Bull.Bot.Surv.India 20 (1978; publ. 1979) 133-135.
14 new combinations.

----- & U.SHUKLA, *A note on grasses of Manipur.* Indian For. 105 (1979) 880-885.

Name list of additions to Flora of Manipur by Deb.

JAVEID,G.N. *Forest flora of Kashmir: A check list. II.* Indian For. 105 (1979) 148-170.

Gymnosperms to Liliaceae.

JEFFREY,C. *On the nomenclature of the strand Scaevola species (Goodeniaceae).* Kew Bull. 34 (1980) 537-545.

The nomenclaturally correct name of S. taccada is according to typification S. sericea Vahl.

- *Further notes on Cucurbitaceae: V. The Cucurbitaceae of the Indian subcontinent.* Kew Bull. 34 (1980) 789-809.
Important checklist of 90 spp. with full synonymy; identification list. Including Ceylon and Pakistan.
- *A review of the Cucurbitaceae.* Bot.J.Linn.Soc. 81 (1980) 233-247, 1 tab.
Overview of characters and groups; new classification of Cucumis.
- JÉRÉMIE,J. *Notes sur le genre Ascarina (Chloranthaceae) en Nouvelle-Calédonie et à Madagascar.* Adansonia 20/3 (1980) 273-285, 5 pl.
Redescription of the two species from New Caledonia; reduction of the monotypic genus *Ascarinopsis* Humb. & Capuron to a new section of *Ascarina*; 1 new comb.; descr. of pollen.
- JERMY,A.C. *Notulae et novitatis Muluensis. No. 1.* Bot.J.Linn.Soc. 81 (1980) 1-4, 1 map.
Introduction and general acknowledgement of the expedition. This is followed by 2 contributions, by Dransfield on Palms and by Jülich on Fungi; see there.
- JESSOP,J.P. *Amendments to the third edition of J.M.Black's Flora of South Australia. I.* J.Adelaide Bot.Gard. 1 (1979) 371-375.
- JOHNSON,C.T. *The leaf anatomy of Leptospermum Forst. (Myrtaceae).* Aust.J. Bot. 28 (1980) 77-104, 26 fig., 2 tab.
- JOHNSON,L.A.S. *Notes on Casuarinaceae.* Telopea 2 (1980) 83-84.
New genus *Gymnostoma*; a new comb. for a New Caledonian sp. and a new sp. from Fiji. Authorship of *Casuarina equisetifolia*. Author envisages to publish 2 other new genera in the family.
- *JONG,K. (ed.), *Biological aspects of plant genetic resource conservation in South-east Asia.* Univ.of Hull, Dept.Geography, Misc.Ser. 21 (1979) xiv + 95 pp. mimeogr.
Transactions of the 5th Aberdeen-Hull Symposium on Malesian ecology (for the 6th, see under Marshall). Seven papers occupy 40 pp., the rest is discussion. Main items: J.G.Hawkes on research problems; H.Keiding on forest tree resources, mainly teak; J.Dransfield on rattan, sago, salak, their use and conservation problems; G.Argent on the gene pool of New Guinea bananas; K.Jong on the state of knowledge in cytology and embryology. Good summaries in English, French, German, Indonesian.—M.J.
- & A.KAUR, *A cytotaxonomic view of the Dipterocarpaceae with some comments on polyploidy and apomixis.* Mém.Mus.Natn.Hist.Nat.Paris sér.B Bot. 26 (1979) 41-49, 3 fig., 2 tab.
Chromosomes of 60 spp. known; 2 triploids new; 2 base numbers $n=11$ and $n=7$.
- JOSEPH,J. *Status of floristic studies in India - with special reference to Southern Circle of Botanical Survey of India.* Bull.Bot.Surv. India 19 (1977; publ. 1979) 109-111.

-----, R.ANSARI & C.N.MOHANAN, *Burmannia championii* Thw., an addition to the flora of South India. (Burser.) J.Bomb.Nat.Hist.Soc. 76 (1979; publ. 1980) 552-553, 1 fig.

----- & V.CHANDRASEKARAN, *Janakia arayalpathra* - a new genus and species of Periplocaceae from Kerala, South India. J.Indian Bot.Soc. 57 (1978) 308-312, 13 fig.

----- & ----- A critical note on *Capparis fusifera* Dunn (Capparaceae). Bull.Bot.Surv.India 20 (1978; publ. 1979) 156-158, 7 fig.

----- & E.VAJRAVELU, Notes on the distribution of *Elatostema cuneatum* Wt. (Urticaceae). Bull.Bot.Surv.India 20 (1978; publ. 1979) 168-169, 1 pl.

KALKMAN,C. Dispersal and distribution of Malesian Angiosperms. In: K.Larsen & L.B.Holm-Nielsen (eds.), Tropical Botany. Acad.Press London (1979) 135-141, 1 fig., 4 tab.

Statistic of 3128 spp. of dispersal classes in short-range 0-1 km, medium 1-10 km, long 10-100 km yielded 16666, 478 and 984 spp. These figures were compared with the ranges of the species. It is concluded that the dispersal method is of subordinate importance for tree-genesis.

KAM,Yee-kiew, Taxonomic studies in the genus *Kaempferia* (Zingiberaceae).

Notes R.Bot.Gard.Edinb. 38 (1980) 1-12, 3 fig.

Delimitation of the genus; infrageneric subdivision; classification of Asiatic: 3 sections. Subg. *Cienkowskilla* from Africa raised to generic rank with 4 new combinations.

KANAI,H. An approach to a logical identification of Japanese plants 2. Automated species identification of the genus *Adenophora* (Campanulaceae). Bull.Natn.Sci.Mus.Tokyo B 5 (1979) 125-137. In Japanese.

----- Account on the vegetation and some East Asiatic species of Mt. Albert Edward, Papua New Guinea. In: S.Kurokawa (ed.), Studies on Cryptogams of Papua New Guinea. Acad.Sci.Book Inc.Tokyo (1979) 5-10, 2 pl., 7 phot.

Brief ecology; 9 records of Angiosperms, none new.

KANIS,A. The Malesian species of *Serianthes* Bentham (Fabaceae-Mimosoideae). Brunonia 2 (1979) 289-320, 4 fig.

Keys and descriptions of 4 spp. (1 stat.nov.), 1 subspecies (stat. nov.); identification list.

KAPAHI,B.K. & Y.K.SARIN, Contribution to the botany of Lahaul. J.Bomb. Nat.Hist.Soc. 74 Suppl. (1979) 627-639, 1 map.

Brief introduction and name list.

KAPOOR,S.L. The Herbarium of the National Botanical Research Institute, Lucknow. Bull.Bot.Surv.India 19 (1977; publ. 1979) 244-247.

KAPUR,S.K. & Y.K.SARIN, Contributions to the flora of Kangra Valley. Part 1. Dharamshala-Palampur tract. Bull.Bot.Surv.India 20 (1978; publ. 1979) 1-19.

- KARTAWINATA, Kuswata, *A note on a kerangas (heath) forest at Sebulu, East Kalimantan*. Reinwardtia 9 (1980) 429-447, 4 fig. (1 map), 6 tab. 84 species listed; ecology of the heath forest.
- KEIGHERY, G.J. *Bird pollination in South Western Australia: a checklist*. Pl. Syst. Evol. 135 (1980) 171-176. Generic list (in families) with numbers of species either bird- or insect-pollinated.
- KELKAR, S.S. & C.S. LATTOO, *Further notes on the identification of the genus Tephrosia Pers. (Leg.)* J. Bomb. Nat. Hist. Soc. 76 (1979; publ. 1980) 560-562, 7 fig. Sterile, against Indigofera.
- KENG, Bo-jie & Yong-kui MA, *Two new species of genus Setaria from Yunnan Province. (Gram.)* Acta Bot. Yunnanica 2 (1980) 417-423, 2 fig.
- KENG, Hsuan, *Annotated list of seed plants of Singapore (V)*. Gard. Bull. Sing. 31 (1978) 84-113.
- *The delimitation of the genus Magnolia (Magnoliaceae)*. Gard. Bull. Sing. 31 (1978) 127-131, 1 pl. Talauma, Aromadendron and Manglietia reduced to Magnolia.
- KHAN, M.S. *Rhizophoraceae*. Flora of Bangladesh no 7 (1978) 15 pp., 4 pl. 5 genera, 9 species.
- *Sonneratiaceae*. Flora of Bangladesh no 12 (1980) 12 pp., 5 fig. 4 spp. of Sonneratia, 1 Duabanga.
- & M. HALIM, *Nymphaeaceae*. Flora of Bangladesh no 9 (1979) 12 pp., 4 pl. Key to 5 genera and Nymphaea 4 spp. (2 cultivated).
- & SHAMSHUNNAHAR, *Onagraceae*. Flora of Bangladesh no 6 (1977) 10 pp., 6 pl. Key to 6 spp. of Ludwigia.
- KIEW, R. *Notes on the systematy of Malayan Phanerogams. XXV. Aquifoliaceae*. Gard. Bull. Sing. 31 (1978) 81-83. One new name; some synonyms.
- KING, B.L. *The systematic implications of flavonoids in Rhododendron sub-genus Pentanthera*. In: J.L. Luteyn & M.E. O'Brien (eds.), *Contrib. toward a classification of Rhododendron*. New York Bot. Gard. (1980) 163-185, 7 fig., 5 tab.
- KIRKPATRICK, J.B. *Tasmanian high mountain vegetation I. A reconnaissance survey of the Eastern Arthur Range and Mount Picton*. Pap. Proc. R. Soc. Tasmania 114 (1980) 1-20, 4 fig., 2 pl. Ecological study; 128 spp.; associations.
- KITAGAWA, M. *Notulae fractae ob florum Asiae orientalis (32)*. J. Jap. Bot. 54 (1979) 321-323. In Japanese. New comb. in Nitraria & Ligusticum; discussion of Potentilla anemonefolia Lehm. 1820 (syn. P. kleiniana & P. sundaica).

- *Notulae fractae ob florum Asiae orientalis* (33). J.Jap.Bot. 55 (1980) 266-269.
 Critical notes on some spp. and a few new varieties of Japanese plants.
- KITAMURA,S. *Compositae Novae Nepalensis*. Acta Phytotax. Geobot. 30 (1979) 127-130.
 8 new species in various genera.
- KIU,H.S. A new species of *Helicia Lour.* from Xizang. (Proteac.) Acta Phytotax. Sin. 18 (1980) 524. In Chinese.
- KLOOT,P.M. The native and naturalised *Cyperus* species in South Australia. J.Adelaide Bot.Gard. 1 (1979) 333-341, 1 map.
 An interesting account and analysis.
- KOBAYASHI,S. A new orchis in the Bonin Islands. J.Jap.Bot. 55 (1980) 303-305, 1 fig., pl. IV.
Malaxis n.sp.
- KOCHUMMEN,K.M. Botanical name changes of some common Malayan timber trees. Malays.For. 43 (1980) 117-118.
- The occurrence of *Agathis borneensis Warburg* (*Damar minyak*) in heath forest in Peninsular Malaysia. Malays.For. 43 (1980) 119-123, 1 map.
 In Trengganu; associated spp. listed; soil is sandy and covered with a thin layer of peat. *Tristania* and *Eugeissona* are very common.
- KONZALOVA,M. *Lecythidaceae-pollen in the Tertiary volcanic formation (Bohemian, Czechoslovakia)*. Pollen et Spores 22 (1980) 59-66, 3 fig., 1 pl., 1 tab.
 Allied to Planchonia! Also earlier reported Lecyth. from Lower Eocene of Hungary.
- KOOL,R. A taxonomic revision of the genus *Ixonanthes* (Linaceae). Blumea 26 (1980) 191-204, 3 fig., 2 tab.
 3 spp. recognized; key; identification list.
- KOONLIN,T. The palm economy, in particular the swamp sago economy in Southeast Asia. J.d'Agric.Trad et de Bot.Appl. (JATBA) 26 (1979) 129-146, 1 map, 1 phot.
 4 categories; woody palms (rattans etc.), oleaginous palms, sacchariferous palms, farinaceous palms. Sago as an ancient food commodity; flowering, economy, ecology; uses made of palms.
- KOSTER,J.Th. The Compositae of New Guinea VII. Blumea 26 (1980) 233-243, 1 fig.
 Additions (1 n.sp. of *Myriactis*); elaboration of tribe Senecioneae (key to 7 genera).
- KOSTERMANS,A.J.G.H. A new *Neolitsea* and a new *Cryptocarya* (Lauraceae) from Australia. Brunonia 2 (1979) 93-98, 2 fig.
- Notes on Ceylonese plants. I. Misc.Pap.Landbouwhogesch.Wageningen 19 (1980) 205-230, 5 fig. — New spp. in *Dichapetalum*, *Stemonoporus* (5), *Homalium*, *Cinnamomum*, *Entada*, *Eugenis*, *Strombosia*.

- *Guttiferae*. Revised Handb.Fl.Ceylon ed. New Delhi 1 (1980) 72-110.
Leguminosae (Mimosaceae). Ibid. 459-508. — See page 3602.
- *A note on two species of Cinnamomum (Lauraceae) described in Hortus Indicus Malabaricus*. In: K.S.Manilal (ed.), Botany & History of Hortus Malabaricus (1980) 163-167.
- KOYAMA,T. *The genus Bolboschoenus Palla in Japan. (Cyper.) Acta Phytotax.*
Geobot. 31 (1980) 139-148, 2 fig.
 Key to 3 spp. (1 new comb.).
- KRISHNA,B. *Floristic studies in India. Present status and future strategies with special reference to Bihar.* Bull.Bot.Surv.India 19 (1977; publ. 1979) 33-38.
- KUAN,Ke-chien, *Amaranthaceae*. Flora Reipubl. Pop. Sinicae 25 (2) (1979) 194-241, fig. 44-51. In Chinese.
 13 genera; no new species.
- *Nymphaeaceae, Ceratophyllaceae, Eupteleaceae, Trochodendraceae, Cercidiphyllaceae*. Flora Reipubl. Pop. Sinicae 27 (1979) 1-24, 11 fig.
 There is i.a. a new species of Ceratophyllum.
- KULKARNI,A.R. & A.N.THITE, *Additions to the flora of Kolhapur District.*
J.Bomb.Nat.Hist.Soc. 74 Suppl. (1979) 592-609.
 Name list in families.
- KUMAR,P.V. & Bir BAHADUR, *Seed morphology of thirteen species of Cleome L. (Capparidaceae)*. J.Indian Bot.Soc. 57 (1978) 39-46, 13 fig.
 Key to seed-coat morphology.
- KUMAR,V. & P.E.BRANDHAM, *Cytotaxonomy of Disporum luzoniense (Liliaceae-Polygonatae)*. Kew Bull. 35 (1980) 493-497, 2 fig.
 Disporopsis is upheld as sustained by karyology; material from Luzon: D. fuscopicta.
- *KUNG,Hsien-wu & Cho-po TSIEN (ed.), *Chenopodiaceae*. Flora Reipubl. Pop. Sinicae 25 (2) (1979) xiii + 194 pp., 43 fig. In Chinese.
 39 genera; no new genera.
- KUO,Pen-chao & Li-hua ZHOU, *A preliminary study of the classification and distribution of the genus Hordeum in China. (Gram.) Acta Phytotax.*
Sin. 18 (1989) 420-426, 3 fig. In Chinese.
 11 species listed and keyed out.
- KUIJT,J. *Host selection by parasitic angiosperms.* Symb.Bot.Upsal. XXII: 4 (1979) 194-199.
- LACK,H.W. *The subtribe Hypochoeridinae (Asteraceae, Lactuceae) in the tropics and the southern hemisphere.* In: K.Larsen & L.B.Holm-Nielsen (eds.), Tropical Botany. Acad.Press London (1979) 265-276, 6 fig. (maps).
 Hypochoeris Holarctic and S.American; Picris Holarctic, sparingly in northern Africa and now recorded from Australia, Tasmania and New Zealand, formerly assumed to be merely the imported P.hieracioides.

- *The genus Enydra (Asteraceae, Heliantheae) in West Tropical Africa.*
Willdenowia 10 (1980) 3-12, 5 fig. (1 map).
 2 species; key; 1 new comb. for a species of Brazil and Africa.
- LAI, Kwan-long, Yang-zeng TSAI & Tsuey-yuh WANG, *Studies on the Edible Canna in Taiwan. Botanical characteristics and economical use of Edible Canna.* J.Agric.Assoc.China ser. no 111 (1980) 1-14, 26 fig.
 Cultivar of *C. edulis* cultivated for high-quality starch.
- LANG, Kai-yung, *A study on the geographical distribution and floristic features of the Xizang (Tibet) Orchid Flora.* Acta Phytotax.Sin. 18 (1980) 391-407, illus. Partly in Chinese.
 64 genera, 162 species (36 endemic); affinity with those of Yunnan and Sechuan and the Sino-Himalayan region; generic names tabulated.
- LARSEN, K. *Exploration of the flora of Thailand.* In: K.Larsen & L.B.Holm-Nielsen (eds.), *Tropical Botany.* Acad.Press London (1979) 125-133, 2 tab.
 History of exploration.
- *----- & L.B.HOLM-NIELSEN (ed.), *Tropical Botany.* Proc.Symp.Univ.Aarhus Aug. 1978. Acad.Press London, New York, San Francisco (1979 xi + 453 pp., illus.
 Papers related to Malesian flora.
- & S.S.LARSEN, *Taxonomic note on the Bauhinia pottsii complex.* Bot. Tidsskr. 74 (1979) 7-11, 2 fig. (maps), 1 tab.
 Key to 5 varieties of *B. pottsii*; ranges are not exclusive (2 also in Malesia).
- LASSERRE, P. *Coastal lagoons. Sanctuary ecosystems, cradles of culture, targets for economic growth.* Nature and Resources 15, no 4 (1979) 2-21, 7 fig.
 Physical conditions; industrial use.
- LASSETTER, J.S. & C.R.GUNN, *Vicia menziesii Sprengel (Fabaceae) rediscovered: its taxonomic relationships.* Pacif.Sci. 33 (1979) 85-101, 6 fig.
 Allied to 2 American species.
- LATZ, P.K. *Four new species of Cyperaceae from Central Australia.* J.Adel. Bot.Gard. 1 (1979) 343-350, 4 fig.
Elaeocharis, Fimbristylis (2) and *Schoenus*.
- LAUBENFELS, D.J.de, *The endemic species of Podocarpus in New Guinea.* Blumea 26 (1980) 139-143.
 4 species described (2 new).
- LAUENER, L.A. *The typification of Royle's Ranunculaceae. II. Notes R.Bot. Gard.* Edinb. 38 (1980) 125-128.
 Royle and Wallich sheets.
- *Faurie's Hawaiian types at the British Museum.* Notes R.Bot.Gard. Edinb. 38 (1980) 495-497.
 Names listed with correct disposition.

- Catalogue of the names published by Hector Léveillé. XIII. Notes R. Bot.Gard.Edinb. 38 (1980) 453-485.
From S. China; 11 families are dealt with, mostly Tubiflorae. Re-identifications land in very different families.
- & Wen-tsai WANG, A new *Mallotus* from China. (Euph.) Notes R.Bot. Gard.Edinb. 38 (1980) 487-488, 1 fig.
- LAVARACK,P.S. *Dendrobium antennatum* Lindl. in Australia. The Orchadian 6 (1980) 148-149, 2 phot., 1 map.
- The genus *Arthrocilus* in Papua New Guinea. The Orchadian 6 (1980) 150, 1 phot.
- Wet season orchids of the Iron Range area. The Orchadian 6 (1980) 171-173, illus.
The results of the 1980 joint Australian Orchid Foundation-Queensland National Parks and Wildlife Service Expedition to Iron Range. Discussion of some dozen spp. in very northern Cape York Peninsular area; some in common with those of S. New Guinea.
- The true identity of *Dendrobium ophioglossum* Rchb.f. The Orchadian 6 (1980) 212-213, 2 fig.
= *D. smilliae* F.v.M.
- & P.J.CRIBB, *Dendrobium johannii* and *Dendrobium semifuscum* in North Queensland. The Orchadian 6 (1980) 209-211, 3 fig.
- LAW,Yuh-wu, A new genus of Magnoliaceae from China. Acta Phytotax.Sin. 17, no 4 (1979) 72-74, 2 fig. In Chinese.
Manglietiastrum sinicum n.g. n.sp.
- LAZARIDES,M. *Micraira* F.Muell. (Poaceae, Micrairoideae). Brunonia 2 (1979) 67-84, 2 fig.
Key to 8 species (5 new).
- *Hygrochloa*, a new genus of aquatic grasses from the Northern Territory. Brunonia 2 (1979) 85-91, 1 fig.
Key to 2 species (both new).
- LEBER,F. Neu-Guinea-*Impatiens*-Hybriden im Wohnbereich. Der Palmengarten, Vierteljahrsschr.Palmengart.Frankfurt a/Main 44 (1980) 25-27, 3 phot.
Remarks on New Guinea hybrids cultivated at Frankfurt.
- LEBLER,B.A. Some native ground orchids. Advis.Leafl. no 1311 Div.Pl.Indus. Dept.Prim.Indus. (16-5-1976) 1-10, 6 fig. Repr. from Queensl.Agr.J. 1975.
6 species treated.
- The bearded heaths of south-eastern Queensland. Queensl.Agric.J. (Sept./Oct. 1978) 433-448, illus.
Epacridaceae surveyed.
- The *Canthiums* of South-eastern Queensland. Advis.Leafl. no 1439 Div.Pl.Indus., Dept.Prim.Indus (5-4-1979) 1-7, 4 fig. Repr. from Queensl.Agr.J. 1978. — Field-key to 4 species.

LEE, A.T. Some species of *Crotalaria* in Australia. *Telopea* 1 (1978) 319-356, 3 fig., 3 maps, 2 tab.

Several discussions and partial keys.

----- *Lomandra tropica* (*Xanthorrhoeaceae*). A new species from northern Australia. *Telopea* 2 (1980) 49-53, 3 fig.

Key to 2 spp.; 1 new from N. Australia, but almost only created because of disjunction with the S. Australian one.

----- *The Psorealea patens* complex. *Telopea* 2 (1980) 129-131, 3 fig. Key, descr. and notes of 3 species.

LEE, D.W. & J.B. LOWRY, Plant speciation on tropical mountains: *Leptospermum* (*Myrtaceae*) on Mount Kinabalu, Borneo. *Bot.J.Linn.Soc.* 80 (1980) 223-242, 15 fig.

Field notes supplemented by meticulous other observations; 2 spp., *L. recurvum* and *L. flavescens*.

LEE, Shu-kang, *Malania*, a new genus of oil-yielding plant. *Bull.Bot.Lab.* North-East.Forest.Inst. Harbin, China 6 (1980) 67-72, 2 pl.

In Chinese. Tree genus belongs to Olacac. from Kwangsi & Yunnan.

* LEEUWENBERG, A.J.M. (ed. + main author), *Angiospermae: Ordnung Gentianales. Fam. Loganiaceae*. In Engl. & Prantl, *Nat. Pfl. Fam.* ed. 2, 28 b I (1980) 1-255, illus.

The first new issue since vol. 20d (1953) of this important work, but in a new fashion: taxonomy 93 pp., large chapters by various authors c. 150 pp. (architecture, anatomy, palynology, embryology, chromosomes, phytochemistry and useful plants). Excellent printing. Unfortunately hardly mention of ecology.

LEGRIS, L. & V.M. MEHER-HOMJI, Phytogeographic outlines of the hill ranges of Peninsular India. *Trop.Ecol.* 18 (1977) 10-24, 1 fig., 3 tab. Forest types and forest composition.

LESCOT, M. *Flacourtiaceae*. *Fl.Nouv.Caléd.et Dépend.* no 9 (1980) 3-134, 32 pl., 54 cartes.

4 genera, 55 spp.; 1 new comb. in *Xylosma*, 1 n.sp. in *Homalium*.

LESSA, W.A. Traditional uses of the vascular plants of Ulithi Atoll, with comparative notes. *Micronesica* 13 (1977) 129-190, 8 fig., 1 tab. Cultigens and oceanic atoll plants listed; ethnobotany.

* LESSARD, G. & A. CHOUINARD (ed.), Bamboo research in Asia. Proceedings of a workshop held in Singapore, 28-30 May 1980 (1980) — Reviewed on page 3610.

LI, Hen, New species of Rubiaceae and Araceae from Xizang (Tibet). *Acta Phytotax.Sin.* 18, no 1 (1980) 116-118, 3 fig. In Chinese. 1 n.sp. in *Ophiorrhiza*, *Galium*, *Mussaenda* and *Typhonium*.

----- Himalayas - Hengduan Mountains - The centre of distribution and differentiation of the genus *Arisaema* - To discuss the problems about the origin and migration of this genus. *Acta Bot. Yunnanica* 2 (1980) 402-416, 7 fig., 3 tab. In Chinese, with summary.

- LI, Hsi-wen, Notes on the taxonomy and distribution of the genus *Syndiclis* Hook.f. of Lauraceae and to discuss the characteristic of its area-type. *Acta Bot. Yunnanica* 1, no 2 (1979) 11-16. In Chinese.
Generic characters; differs from *Potameia*; 9 spp. in China, 1 in Bhutan.
- LI, Pei-chun & Chi-cheng NI, New taxa of the Leguminosae from Xizang (Tibet). *Acta Phytotax. Sin.* 18 (1980) 367-373. In Chinese.
Mostly new species of *Astragalus*, *Oxytropis* and *Hedysarum*.
- LI, Ya-ru, Some new taxa of Araliaceae from Xizang. *Acta Bot. Yunnanica* 2 (1980) 106-112, 6 fig. In Chinese.
Various notes; 2 new species (in *Acanthopanax* and *Brassaiopsis*).
- LIANG, Sheng-yeh, A new species of *Camellia* from Guangxi, China. *Acta Phytotax. Sin.* 17, no 4 (1979) 95-96, 1 fig. In Chinese.
- A new species of Styracaceae from China. *Acta Phytotax. Sin.* 18, no 2 (1980) 230-231, 1 fig. In Chinese.
Styrax sinensis n.sp.
- LIM, Ah-lan, *Arthrophyllum stonei*, a new species from Genting Highlands, Pahang, Malaysia. *Malays. For.* 43 (1980) 263-265, 1 fig.
Intermediate between *A. montanum* and *A. alternifolium*. No key is given to clearly state the differences, the two species themselves being already scarcely distinguishable.
- LIN, Wan-t'ao, Some new species of the bamboos from Kwangtung. *Bull. Bot. Lab. North-East. Forest. Inst. Harbin, China* 6 (1980) 85-93, 3 pl.
In Chinese. 3 new species.
- LING, Yeou-ruenn, Notes on the genus *Neopallasia* (Pall.) Poljak. of Compositae. *Acta Phytotax. Sin.* 18, no 1 (1980) 86-88, 1 fig. In Chinese.
3 species (1 new, 1 new comb.).
- *Taxa nova generum Artemisiae et Seriphidii Xizangensis*. (Comp.) *Acta Phytotax. Sin.* 18 (1980) 504-513, 9 fig. In Chinese.
16 spp. listed (8 new); 2 new comb.
- *LING, Yong (ed.), *Compositae* (2). *Flora Reipubl. Pop. Sinicae* 75 (1979) xviii + 422 pp., 67 pl. In Chinese.
- & Chu SHIH, *Taxa nova tribus Anthemidearum familiae Compositarum sinicarum*. *Bull. Bot. Lab. North-East. Forest. Inst. Harbin, China* 6 (1980) 1-16. In Chinese.
Various genera; no keys; many new species and new combinations.
- LIPPOLD, H. Die Gattungen *Thevetia* L., *Cerbera* L. und *Cascabela* Rafin. (Apocynaceae). *Feddes Rep.* 91 (1980) 45-55, 1 Abb., 1 Tab.
Thevetia split into 2 genera; *Cascabela* Rafin. reinstated.
- *LIPSCHITZ, S. Genus *Saussurea* DC. (Asteraceae). *Publ. House 'Nauka'*, Leningrad Branch (1979) 281 pp., 42 pl., 3 tab. In Russian.
Monograph; keys; descr. in Latin; c. 400 taxa.

- LIU,Lun-hui & You-de YU, *Study of the Shorea forest and its phytocoenological characters in Western Yunnan.* Acta Bot.Yunnanica 2 (1980) 451-458, 1 fig., 3 tab.
Consociates; mean temperature is 22°C, precipitation 2200 mm.
- LIU,Tang-shui, *The pines in Taiwan, Republic of China, with special reference to the cultivation of Ryukyu pine and Taiwan red pine.* Quart.J.Taiwan Mus. 32 (1979) 1-26, 12 fig. (2 maps), 6 tab.
Notes on 26 species.
- & Ming-jou LAI, *Geum japonicum Thunb. (Rosaceae), an additional genus and species for the flora of Taiwan.* Quart.J.Taiwan Mus. 32 (1979) 33-35, 1 fig.
- & Jih-ching LIAO, *Miscellaneous notes on the native and introduced woody plants of Taiwan (II).* Quart.J.Taiwan Mus. 32 (1979) 27-31.
Notes on 11 species.
- LIU,Yu-lan, *Study on the genus Onosma L. of China. (Borag.)* Acta Phytotax.Sin. 18, no 1 (1980) 63-70, 1 fig. In Chinese.
A dozen names (6 new species).
- LO,Hsien-shui, *Notes on some Acanthaceae of South China.* Acta Phytotax. Sin. 17, no 4 (1979) 84-87. In Chinese.
Some notes; 5 new species.
- *A new species of Arcangelisia Becc. (Menispermaceae).* Acta Phytotax.Sin. 18, no 1 (1980) 100, 1 fig. In Chinese.
- LOZANO-C.,G., J.HERNÁNDEZ-CAMACHO & J.E.HENAO-S., *Hallazgo del genero Trigonobalanus Forman, 1962 (Fagaceae) en el Neotropico. I.* Caldasia 12 (1979) 517-537, 3 pl.
Amazing find of a new species in the Colombian mountains. Leaves scattered as in the Thailand species. Mai described formerly fossil species from Eocene in Europe and declared the 2 Indo-Malesian species as relicts. This comes now true of this ancient Laurasian range.
- *LU,An-ming & Ko-zen KUANG (ed.), *Solanaceae. Flora Reipubl. Pop. Sinicae* 67 (1) (1978) vii + 175 pp., 40 fig. In Chinese.
24 genera (several cultivated), with over 100 species (none new).
- & Zhi-yun ZHANG, *A new species of Schizopepon Maxim. from Xizang. (Cuc.)* Acta Phytotax.Sin. 18 (1980) 385, 1 fig. In Chinese.
- LU,Sheng-you & Yuen-po YANG, *Two new records for the flora of Taiwan.* Taiwania 25 (1980) 123-125, 2 fig.
Premna octonervia and Rubus howii, both formerly endemic in Hainan.
- LUBIS,S.H.A., I.LUBIS, D.SASTRAPRADJA & S.SASTRAPRADJA, *Genetic variation of Mucuna pruriens (L.) DC. III. Inheritance of pod hairs.* Ann. Bogor. 7 (1979) 1-9, 7 fig.
Determined by two genes.

- LUCAS,M.A. Hooked spikelet emergences of *Pseudechinolaena* (Gramineae-Panicoideae). I. Comparative morphology and anatomy. *Iselya* 1 (1979) 115-139, 38 fig.
Hooks are emergences; distr. map.
- LUO,Kai-jun, A study on source plant of new anti-malaria substance Huang-huahosu. *Acta Bot.Yunnanica* 2 (1980) 33-41, 2 fig., 3 tab. Chinese. *Artemisia annua* L. (Comp.).
- *LUTEYN,J.L. (ed.), Contributions toward a classification of *Rhododendron*. *Proc.Int.Rhododendron Conf.*, N.Y.Bot.Gard. May 15-17, 1978 (1980) 338 pp., many illus.
A most important volume, to our pleasure dedicated to Dr. H.O. Sleumer, containing many important contributions towards the various aspects of *Rhododendron*.
- LY,Tr'an dinh, Eine neue *Strophanthus* Art aus Vietnam. (Apoc.) *Feddes Rep.* 91 (1980) 7-9, 1 Abb.
- MA,Yu-chuan, Revision of the genus *Tugarinovia Iljin* and its systematic position. (Comp.) *Acta Phytotax.Sin.* 18, no 2 (1980) 217-219, 2 fig. In Chinese.
From China.
- MABBERTLEY,D.J. A re-examination of the 'Indian Catalogues' with particular reference to *Hortus Malabaricus*. In: K.S.Manilal (ed.), *Botany & History of Hortus Malabaricus* (1980) 80-110.
An extensive scrutiny incl. names used by Roxburgh and others. Many new comb. in various families. *Odontanthera* Wight (Asclep., from India and Africa) reinstated (4 new comb.). A synopsis of nomenclatural changes concludes this important paper.
- Generic names published in Salisbury's reviews of Robert Brown's works. *Taxon* 29 (1980) 597-606.
Identification of generic names validly published in Monthly Review. *Kunzea* Rchb. must be conserved against *Tilospermum* Salisb. Amongst others is found that *Euryclies* is a synonym of *Proiphys* Herb. Appended is a list of 64 overlooked names of tropical and subtropical Old World plants. 2 new comb. in *Proiphys*. Correct author names for species of *Carex*. Several new comb. in other genera.
- MACONOCHEE,J.R. The genus *Trachymene* (Apiaceae) in the Northern Territory and a new species from Western Australia. *J.Adelaide Bot.Gard.* 2 (1980) 171-185, 6 fig.
Key to 14 species (5 new; 1 new comb.).
- MACPHAIL,M.K. & D.C.MILDENHALL, *Dactylanthus taylori*: in North-West Nelson, New Zealand? *New Zeal.J.Bot.* 18 (1980) 149-152, 7 fig. (Balanoph.) Fossil pollen from South Island.
- MAEKAWA,F. Note on the Shimoda-kan'aoi. *J.Jap.Bot.* 55 (1980) 129-131, 1 fig. In Japanese.
A new variety in *Heterotropa* (Aristol.).

MAESEN,L.J.G.van der, *India is the native home of the pigeonpea.* Misc. Pap.Landbouwhogesch.Wageningen 19 (1980) 257-262, 2 fig.
Cajanus cajan (L.) Millsp. (Legum.).

MAGUIRE,B. & P.S.ASHTON, *Pakaraimaea dipterocarpacea II.* Taxon 29 (1980) 225-231, 1 map, 2 fig.
 Definitely proved to belong to Dipterocarpaceae and not related to Schoutenia; descr. of seed.

MAHESHWARI,J.K. *Lotuses and Water-lilies in Hortus Malabaricus.* In: K.S. Manilal (ed.), Botany & History of Hortus Malabaricus (1980) 121-127.
 2 species recognized.

MALHOTRA,C.L. & P.K.HAJRA, *Status of floristic studies in Arunachal Pradesh.* Bull.Bot.Surv.India 19 (1977; publ. 1979) 61-63.

MALHOTRA,S.K., K.M.RAO & B.G.KULKARNI, *On the occurrence of Gymnema cuspidatum (Thunb.) K.Schum. (Asclepiadaceae) in Maharashtra.* J.Bomb. Nat.Hist.Soc. 76 (1979; publ. 1980) 202-203, 1 fig.

MALICK,K.C. & B.KRISHNA, *Identification of seeds of Indian Senna of commerce.* Bull.Bot.Surv.India 20 (1978; publ. 1979) 113-116, 8 fig.
 Seeds of 8 Cassia species keyed out.

MANILAL,K.S. *The relationship of Hortus Malabaricus with Kerala and Malayalam.* Malayalam Literary Survey 3, no 4 (1979) 54-67, 3 fig.
 General about purpose, compilation and other details about the edition.

*----- (ed.), *Botany and History of Hortus Malabaricus.* Balkema, Rotterdam (1980) x + 237 pp., few illus. About Dfl. 45.
 Contains 23 interesting papers and essays, by 17 authors, under whose names the contributions are entered here. — Reviewed on page 3611.

----- *The implication of Hortus Malabaricus with the botany and history of Peninsular India.* In: K.S.Manilal (ed.), Botany & History of Hortus Malabaricus (1980) 1-5.
 General.

----- *Malayalam plant names from Hortus Malabaricus in modern botanical nomenclature.* In: Ibid. p. 70-77.
 List of generic and specific names derived from Indian vernaculars.

----- , C.R.SURESH & V.V.SIVARAJAN, *Galled plants described under distinct names in Hortus Malabaricus.* In: Ibid. p. 177-180.
 3 taxa.

*MANNISON,D., c.s. (eds.), *Environmental philosophy.* Dept.of Philosophy, ANU, Box 4, Canberra ACT 2600, Australia (1980) 385 pp.; offset.
 A symposium of philosophers without ecologists. R. & V. Routley, Human chauvinism and environmental ethics, p. 96-189, was discussed on pages 3427-3431.—M.J.

- MARCHANT, N.G. & G.J. KEIGHERY, Poorly collected and presumable rare vascular plants in Western Australia. Kings Park Research Notes no 5 (1979) 1-103, map.
A basic checklist of 2000 spp. for conservationists; all the presumed rare 124 species are in the southwest.
- MARDJANO, R. Exploration of Zingiber germplasm in the Bogor district. Pembr.L.P.T.I. Bogor no 31 (1978) 1-14, 1 map, 2 tab.
Specimens of 5 species were collected.
- *MARSHALL, A.G. (ed.), The abundance of animals in the Malesian rain forests. Univ. of Hull, Dept. of Geography, Misc. Ser. 22 (1979) 133 pp. mimeogr.
Transactions of the 6th Aberdeen-Hull Symposium on Malesian Ecology (for the 5th, see under Jong). Six papers discuss various animal groups, mostly in west-Malesia. Many data and references, good summaries in English.—M.J.
- MARUYAMA, I., H. OKAMURA & G. MURATA, On a new hybrid genus Hibarobambusa. Acta Phytotax. Geobot. 30 (1979) 148-152, 1 pl. In Japanese.
- MASLIN, B.R. Studies in the genus Acacia (Mimosoideae). 9. Additional notes on the series Pulchellae Benth. Nuytsia 2 (1979) 354-367. Keys; some new species.
- MAURY-LECHON, G. Conséquences taxonomiques de l'étude des caractères des fruits-germinations, embryons et plantules des Diptérocarpacées. Mém. Mus. Natn. Hist. Nat. Paris sér. B Bot. 26 (1979) 81-106, 16 fig., 20 tab.
- MAXWELL, J.F. A revision of Medinilla, Pachycentria, and Pogonarthra (Melastomataceae) from the Malay Peninsula. Gard. Bull. Sing. 31 (1978) 139-216, 21 fig.
Medinilla 14 spp. 1 new, 3 new comb.), Pachycentria 3 spp. (1 new comb.); keys.
- Revision of Memecylon L. (Melastomataceae) from the Malay Peninsula. Gard. Bull. Sing. 33 (1980) 31-150, 35 fig.
A full revision with descr. and two keys to the species (fl. & fr.); several reductions; identification list.
- Synopsis of Memecylon L. (Melastomataceae) in the Malay Peninsula. Mal. Nat. J. 34 (1980) 7-24, 2 fig.
Key to 28 species; 1 new comb. for a variety.
- MCINNES, D.E. Tiny duckweed Wolffia australiana in flower. Victor. Natur. 96 (1979) 174-176, 4 fig.
Grown from a pond in Melbourne.
- MCINTYRE, L. Jari: A billion dollar gamble. Nat. Geogr. 157 (1980) 686-711, many photogr.
The sad tale of a massive technology transplant taking root in the Amazon jungle. Forests are clear cut and areas replanted by Pinus caribaea, Gmelina arborea and Eucalyptus deglupta, partly for fuel, partly for chips. Part of the area planted with rice.

- MCMILLAN,C. Flowering under controlled conditions by *Cymodocea serrulata*, *Halophila stipulacea*, *Syringodium isoetifolium*, *Zostera capensis* and *Thalassia hemprichii* from Kenya. *Aquatic Botany* 8 (1980) 323-336, 5 fig., 2 tab.
Cultivation in Texas; interesting results.
- MEARS, J.A. The Linnaean species of *Gomphrena* L. (Amaranthaceae). *Taxon* 29 (1980) 85-95, 1 tab.
Evaluation of 11 names.
- MERCADO,B.L. Biology, problems and control of *Eichhornia crassipes* (Mart.) Solms. A monograph. *Biotrop Bull.* no 16 (1979) 1-52, 8 fig., 20 tab.
- MEIJER,W. Taxonomic studies in the genus *Dipterocarpus*. *Mém.Mus.Natn.Hist. Nat.Paris* sér.B Bot. 26 (1979) 50-56, 3 tab.
Possibly archaic polyploid genus; ecology; conservation.
- MICHAEL,P.W. A new perennial species of *Echinochloa* from New Guinea. *Telopea* 2 (1980) 31-33.
- & J.W.VICKERY, Three new annual species of *Echinochloa* from Northern Australia. *Telopea* 2 (1980) 25-29.
- MING,Tien-lu, The geographic distribution and floristic character of Chinese Anacardiaceae. *Acta Bot.Yunnanica* 2 (1980) 390-401, 7 maps, 2 tab. In Chinese; English summary.
- MITCHELL,A.S. A new *Hibiscus* (Malvaceae) from Central Australia. *Nuytsia* 2 (1979) 336-340, 2 fig.
- MITRA,R.L. & S.K.JAIN, On the identity of four grasses in Hortus Malabaricus. In: K.S.Manilal (ed.), *Botany & History of Hortus Malabaricus* (1980) 149-158, 1 fig.
- MO,Sin-li, A new species of the genus *Vatica* from Guangxi. *Acta Phytotax. Sin.* 18, no 2 (1980) 232-233, 1 fig. In Chinese.
Allied to *V. tonkinensis* Tard. (Dipt.).
- & Yu WEI, A new variety of *Acrocarpus fraxinifolius* from Guangxi. *Acta Phytotax.Sin.* 18, no 2 (1980) 233. In Chinese. Leguminosae.
- MOGEA,J.P. The flabellate-leaved species of *Salacca* (Palmae). *Reinwardtia* 9 (1980) 461-479, 9 fig.
4 species keyed out (3 new, all from Borneo).
- MOLDENKE,H.N. Additional notes on the genus *Congea*. II. *Phytologia* 45 (1980) 270-280.
On 2 Indo-Malesian species (Verb.).
- Additional notes on the genus *Vitex*. XIV. *Phytologia* 44 (1979) 385-417.
- Notes on new and noteworthy plants. CXXXII. *Phytologia* 44 (1979) 473. New forms in *Geunsia* and *Teysmanniodendron*.
- Additional notes on the genus *Vitex*. XV. *Phytologia* 44 (1979) 474-498.

- *Notes on new and noteworthy plants. CXXXVIII.* Phytologia 46 (1980) 58-60.
Descr. of Surfacea n.g. with 5 spp. in SE. Asia and 1 in Malaya; split from Premna, on type of inflorescence; 5 new combinations.
- *Additional notes on the genus Sphenodesme. II.* Phytologia 46 (1980) 156-172.
- *Additional notes on the genus Avicennia. XIII.* Phytologia 46 (1980) 193-199.
- *Notes on the genus Tsoongia.* Phytologia 46 (1980) 399-401. Descr.; monotypic. In China, Indo-China, Hainan. Intermediate between Premna and Vitex (Verb.).
- *Notes on the genus Teijsmanniodendron.* Phytologia 46 (1980) 460-494 (to be contd).
Descr. of genus and species (Verb.); key to 19 spp. (+ some varieties); genus range now Burma, Thailand, Indo-China through Malesia to the Solomons. Author confuses the concepts Greater and Lesser Sunda Islands both being used in connection with the size of the islands (sic).—v.St.
- *Additional notes on the genus Teijsmanniodendron. I.* Phytologia 47 (1980) 18-43.
Descr. and collections.
- MONOD, Th. *A propos du Sphenoclea zeylanica (Sphenocleaceae).* Adansonia sér. 2, 20 (1980) 147-164, 10 pl.
Affinity is with Campanulaceae.
- MOORE Jr, H.E. *Veillonia alba.* Principes 23 (1979) 174.
Notes on this New Caledonian palm.
- *New genera and species of Palmae from New Caledonia. II.* Gentes Herb. 12 (1980) 17-24, 4 fig.
Moratia n.g. n.sp. (Clinostigma alliance); 1 new species in Actinokentia.
- *Brahea aculeata.* Principes 24 (1980) 91.
New combination of a palm cultivated in Hawaii.
- MOORE, L.B. *Hybrid asteliads (Liliaceae).* New Zeal.J.Bot. 18 (1980) 37-42, 3 fig., 1 tab.
Progenies from 3 intergeneric crosses.
- MORLEY, B. *The nomenclature of and a key to some cultivated species of Montanoa Cervantes (Compositae).* J.Adelaide Bot.Gard. 2 (1980) 151-161, 6 fig.
Key to 4 species of this American genus; cultivated.
- MORRIS, D.I. *Miscellaneous notes on endemic Tasmanian plants in the genera Olearia, Ixodia, Xyris, Danthonia and Tetrarrhena.* Rec.Queen Victoria Mus. no 55 (1977) 1-5. — New comb. in Olearia, n.sp. in Ixodia (Comp.), new subsp. in Xyris, n.sp. in Danthonia & Tetrarrhena (Gram.).

- MOSS, J.P. *Wild species in the improvement of groundnuts.* In: R.J. Summerfield & A.H. Bunting (ed.), *Advances in legume science. Proc. Int. Legume Conf. Kew 1978*, vol. 1 (1980) 525-535, 1 pl., 2 fig., 2 tab. Ground nut probably an allotetraploid.
- MUDALIAR, S.K. *A note on the Cyperus maderaspatanus Willd. in India.* Bull. Bot. Surv. India 20 (1978; publ. 1979) 167-168.
- MUKHERJEE, A.K. & A. SINHA, *Ranunculus sardous Crantz. - a new introduction in India.* Bull. Bot. Surv. India 20 (1978; publ. 1979) 158-159, 1 fig.
- MUKHERJEE, B.B. & J. MUKHERJEE, *Mangroves of Sunderbans, India. Phytomorphology* 28 (1978) 177-192, 37 fig., 1 tab. Ecology; species listed.
- MUKHERJEE, J. *Pollen morphological studies of the tri-colporate Verbenaceae with reference to their taxonomic status and synonymy.* J. Palynology 14 (1978) 109-120, 7 fig. Palynologically Avicennia differs strongly from other Verbenaceae, but not Stilbe.
- MULLER, J. *Summary of fossil Dipterocarpaceae.* Mém. Mus. Natn. Hist. Nat. Paris sér. B Bot. 26 (1979) 156.
- MUNIR, A.A. *A taxonomic revision of the genus Pityrodia (Chloanthaceae).* J. Adelaide Bot. Gard. 2 (1979) 1-138, 41 fig., 10 maps, 1 tab. Pennisonia reduced; key to genera; 41 spp. keyed out (16 new); 2 new combinations.
- MURATA, G. *Taxonomical Notes 13. Acta Phytotax. Geobot.* 30 (1979) 134-147. In Japanese. On Arundinaria and Pleioblastus (Gram.); some new combinations.
- MURATA, J. & H. OHASHI, *Taxonomic notes on Arisaema heterocephalum Koidzumi (Araceae).* J. Jap. Bot. 55 (1980) 161-170, 5 fig.
- NAIK, V.N. *Coelachne ghatica Naik, sp.nov.* Reinwardtia 9 (1980) 393-394, 1 fig. From Western Ghats, India.
- & B.W. PATUNKAR, *Novelties in Panicum (Poaceae) from India.* Reinwardtia 9 (1980) 403-409, 3 fig. 3 new species and a variety.
- NAIR, N.C. & V.J. NAIR, *Present status and future strategies of floristic studies in India: the Upper Gangetic Plain.* Bull. Bot. Surv. India 19 (1977; publ. 1979) 25-32.
- NAITHANI, H.B. *A note on the distribution and nomenclature of Maba cachersis.* Indian For. 106 (1980) 583-585, 1 fig. Transfer to Diospyros (Eben.); descr.
- & K.N. BAHADUR, *Vulpia ciliata Link - a grass new to India.* Indian For. 105 (1979) 232-235, 1 fig.

- NARAYANA,L.L. & D.RAO, *Systematic position of Humiriaceae, Linaceae and Erythroxylaceae in the light of their comparative floral morphology and embryology. A discussion.* J.Indian Bot.Soc. 57 (1978) 258-266.
- NARUHASHI,N. *Notes on Japanese Rubus (3).* J.Phytogeogr.& Taxon. 27 (1979) 38-40, 2 fig.
A hybrid; *Rubus x babae*.
- NASIR,E. *Amaryllidaceae.* Fl.Pakistan no 134 (Sept. 1980) 7 pp., 1 fig.
- NASIR,Y.J. *Bignoniaceae.* Fl.Pakistan no 131 (1979) 1-22.
- *Balanophoraceae.* Fl.Pakistan no 135 (1980) 3 pp.
One species, *B. involucrata*.
- NAYAR,M.P. *Changing patterns of the Indian flora.* Bull.Bot.Surv.India 19 (1977; publ. 1979) 145-155.
Including also plant-geographical and palaeontological data; representation of a few families and elements.
- *Notes on Asian Melastomataceae (3). New species and notes on the genus Macrolenes Naud.* J.Jap.Bot. 55 (1980) 45-52.
6 spp. treated (3 new, 1 new comb.), 1 new variety.
- NELSON,E.C. *Some publication dates for parts of William Curtis' Flora Londinensis.* Taxon 29 (1980) 635-639, 3 fig.
- NG,F.S.P. *Growth rhythms in tropical juvenile trees.* Bull.Soc.Bot.Fr. 126 Actual.Bot. (1979) 139-149, 6 fig.
Saplings of 11 common species in Malaya, silvicultural implications.
- *Comments on Sasaki et al. "Some observations on unusual flowering and fruiting of Dipterocarps".* Malays.For. 43 (1980) 128-129, 1 tab.
Critical notes and definition of "gregarious flowering".
- *Litter-trapping plants.* Nat.Malaysiana 5 (4) (1980) 26-32, col.phot.
Agrostistachys, *Asplenium nidus*, *Drynaria*, *Johannesteysmannia*, *Pandanus epiphyticus*, *Trigonostemon*.
- NGUYEN KHAC KHOI, *Conspectus generum Bulbostylis Kunth et Fimbristylis Vahl (Cyperaceae) Floraе Vietnamі.* Nov.Syst.Pl.Vasc. 17 (1980) 82-96. In Russian.
Species listed; no novelties.
- NGUYEN TIEN HIEP & G.P.YAKOVLEV, *A new species of the genus Photinia (Rosaceae) from Viet-nam.* Bot.J.USSR 65 (1980) 1251-1252, 2 fig.
- *NGUYEN VAN THUAN, *Légumineuses-Papilionoidées. Phaséolées. Flore du Camb. Laos et Viêt-Nam* 17 (1979) 1-217, 32 pl.
Key to genera and species.
- NGUYEN VAN VUONG, *Weed flora in rice field in South Vietnam.* BIOTROP Bull. no 11 (1979) 155-161, 1 map.
Samples on various soil types and cultivation regions.

- NICOLSON, D.H. *Moullava* [Rheede] Adanson, recently *Wagatea* Dalzell (Fabaeeae/Caesalpinoideae). In: K.S. Manilal (ed.), Botany & History of Hortus Malabaricus (1980) 181-185.
Wagatea reduced to *Moullava* Adans.; 1 new combination.
- & M. SIVADASAN, Identification of *Gomphrena hispida* Linnaeus with *Acrocephalus* (Lamiaceae). *Taxon* 29 (1980) 324-325.
 Based on a Rheede plate.
- NIELSEN, I. Notes on Indo-Chinese Mimosaceae. *Adansonia* sér. 2, 19/3 (1979) 339-363, 3 pl.
 Records of various genera; key to 16 species of *Acacia*.
- NOOTEBOOM, H.P. *Symplocaceae*. *Fl. Nouv.-Caléd. et Dépend.* no 9 (1980) 135-158, pl. 33-37, carte 55-63.
 Key to 9 species.
- Review of *Symplocos* (*Symplocaceae*) from New Caledonia. *Blumea* 26 (1980) 411-415.
 9 species keyed out; none new; identification list.
- A new *Symplocos* (*Symplocaceae*) from Sumatra. *Blumea* 26 (1980) 416-417, 1 fig.
 From North Sumatra.
- OGINO, K. Human influence on the occurrence of deciduous forest vegetation in Thailand. *Acta Phytotax. Geobot.* 30 (1979) 188-189.
 Precursor; critical notes; each species mapped.
- OGLE, C.C. & J.K. BARTLETT, New plant records from Northland, New Zealand. *New Zeal.J.Bot.* 18 (1980) 141-143.
 Extended ranges.
- OHASHI, H. & J. MURATA, Taxonomy of the Japanese Arisaema (Araceae). *J.Fac. Sci. Univ. Tokyo* III, vol. 12 (1980) 281-336, 18 fig. & maps.
 25 species accepted (14 new infraspecific comb., 3 new).
- OHBA, H. A new species of *Croton* from Thailand. *J.Jap.Bot.* 55 (1980) 97-100, 1 fig.
- New or critical species of Asiatic Sedoideae (6). *J.Jap.Bot.* 55 (1980) 295-302, 1 fig.
- OLATUNJI, O.A. The structure and development of stomata in some Zingiberales. *Notes R.Bot.Gard.Edinb.* 38 (1980) 499-516, 6 fig.
 Systematic importance.
- ORCHARD, A.E. *Myriophyllum* (Haloragaceae) in Australasia. I. New Zealand: A revision of the genus and a synopsis of the family. *Brunonia* 2 (1979) 247-287, 12 fig. & maps.
 Key and descr. to 6 spp. (1 new); also keys to 2 spp. of *Haloragis* and 4 of *Gonocarpus*.
- *Callitrichie* (Callitrichaceae) in South Australia. *J.Adelaide Bot. Gard.* 2 (1980) 191-194, 1 fig.
 Key to 4 species.

- *An anomalous South Australian Haloragis (Haloragaceae)*. J.Adelaide Bot.Gard. 2 (1980) 253-257, 2 fig.
- PAGE,C.N. *The earliest known find of living Taiwania (Taxodiaceae)*. Kew Bull. 34 (1980) 527-528.
A very old collection is detected from Anderson's expedition 1868 in China.
- *Leaf micromorphology in Agathis and its taxonomic implications*. Pl. Syst.Evol. 135 (1980) 71-79.
SEM-photographs of leaf surfaces of all species. There are 3 groups.
- & K.D.RUSHFORTH, *Picea farreri, a new temperate conifer from Upper Burma*. Notes R.Bot.Gard.Edinb. 38 (1980) 129-136, 3 fig.
- PANCHO,J.V. *Key to the families of weed flora of Southeast Asia*. BIOTROP Bull. no 11 (1979) 139-149.
Key to 86 families (bryophytes, algae, ferns; flowering plants 68).
- PANIGRAHI,G. *Central National Herbarium (CAL). Past, present and perspectives for the future*. Bull.Bot.Surv.India 19 (1977; publ. 1979) 212-224.
- & R.L.MITRA, *A note on Euphorbia laciniata (Euphorbiaceae) from India*. Bull.Bot.Surv.India 20 (1978; publ. 1979) 166-167, 9 fig.
- PARADKAR,S.A. & S.K.MUNSHI, *Some new plant records of Nagpur region*. J. Bomb.Nat.Hist.Soc. 76 (1979; publ. 1980) 209-210.
4 names listed.
- PARAMESWARAN,N. & H.GOTTWALD, *Problematic taxa in the Dipterocarpaceae. Their anatomy and taxonomy*. Mém.Mus.Natn.Hist.Nat.Paris sér.B Bot. 26 (1979) 69-75, 6 fig.
- PAUL,S.R. *A new forma of Hoppea (Gentianaceae) from Bihar*. Acta Botanica Indica 5 (1977) 183-184, 1 fig.
- *Notes on some cultivated Calliandra (Mimosaceae)*. Geophytology 9 (1979) 175-183, 3 pl.
Key to 7 species.
- *Oxalis latifolia HBK. in Indo-Malaysia*. Geophytology 9 (1979) 184-188, 1 map, 1 tab.
Dates of introduction.
- *Taxonomic notes on certain taxa of Indian Lamiaceae*. New Botanist 6 (1979) 45-47.
An Anisochilus sp. reduced; 13 spp. listed in Eusteralis (syn. Dysophylla).
- PEDERSON,T.M. *Comment on proposal (449) on Alternanthera ficoidea*. Taxon 29 (1980) 326-328.
Amaranthaceae. Disagreement with J.F. Veldkamp.
- PEDLEY,L. *A revision of Acacia Mill. in Queensland. Part 2 (concluded)*. Austrobaileya 1 (1979) 237-337, 1 fig., 1 tab. — Phyllodineae.

- PERRY, L.M. *Medicinal plants of East and Southeast Asia. Attributed properties and uses* (1980) — Reviewed on page 3612.
- PHILIPSON, M.N. *Cotyledons and Rhododendron classification*. In: J.L. Luteyn & M.E.O'Brien (eds.), *Contrib. toward a classification of Rhododendron*: 75-87, 9 fig., 5 tab. New York Bot. Gard. (1980).
- PHILIPSON, W.R. *Problems in the classification of the Azalea complex*. In: Ditto: 53-62, 4 fig., 2 tab. New York Bot. Gard. (1980).
- *The genus Wilkiea (Monimiaceae) in Papua New Guinea*. Blumea 26 (1980) 365-366, 5 fig.
First record of this small Australian genus; 1 new species.
- *Kairoa, a new genus of Monimiaceae from Papua New Guinea*. Blumea 26 (1980) 367-372, 10 fig.
Belongs to tribe Mollinediae; 1 new species.
- *A revision of Levieria (Monimiaceae)*. Blumea 26 (1980) 373-385, 16 fig.
7 spp. recognized (2 new), 6 reduced to synonymy. Confined to New Guinea; one extending to Queensland, one to the Moluccas.
- & M.N.PHILIPSON, *Leaf vernation in Nothofagus*. New Zeal.J.Bot. 17 (1979) 417-421, 7 fig., 1 tab.
Found to have taxonomic significance.
- & B.C.STONE, c.s., *The systematic position of Aralidium Miq. A multidisciplinary study*. Taxon 29 (1980) 391-403, 23 fig., 1 tab.
Both Aralidium and Griselinia stand apart from Araliaceae and Cornaceae as monotypic families. Arguments derived from palynology, wood anatomy, chemotaxonomy and serology.
- PICKERSGILL, B. *Cytology of two species of winged bean, Psophocarpus tetragonolobus (L.) DC. and P. scandens (Endl.) Verdc. (Leguminosae)*. Bot.J.Linn.Soc. 80 (1980) 279-291, 14 fig., 2 tab.
There are 2 species involved! P. scandens cannot be the immediate ancestor of the cultigen P. tetragonolobus; chromosomes same number; self-pollination prevails. Study performed at Lae.
- PICKETT, S.T.A. *Non-equilibrium coexistence of plants*. Bull.Torrey Bot.Club 107 (1980) 238-248.
Deals with natural succession and fully elaborates the concept of 'patch dynamics'. I fully agree with the statements. I regret to miss any mention of my earlier concept of 'spotwise regeneration' (1958) exactly matching that of patch dynamics of which the author seems to be unaware. His term is possibly the more elegant. Important for forest ecologists and conservation.—v.St.
- POPPENDIECK, H.-H. *A monograph of the Cochlospermaceae*. Bot.Jahrb. 101 (1980) 191-265, 49 fig. & maps, 2 tab.
Full monograph; key; many reductions; no new species. Age and origin are left undecided; 12 species in Cochlospermum, 3 in Amoreuxia; identification list.

- PRAKASH,V., U.SHUKLA, D.C.PAL & S.K.JAIN, *Additions to the Indian grass flora in the last two decades.* Bull.Bot.Surv.India 20 (1978; publ. 1979) 143-147.
Large name list.
- QAISER,M. *Bombacaceae.* Fl.West Pakistan no 119 (June 1978) 1-6, 1 fig.
- QUIMBO,L.L. *The taxonomic position of Philippine leguminous trees.* Philip.J.Sc. 106 (1977) 87-98.
A current census of 17 genera and the species names attributed to them; no keys.
- QURESHI,R.A. & M.N.CHAUDHRI, *Additions to the Flora of Pakistan.. 1.* Pakist.Syst. 2 (1978) 1-24, 26 pl.
Novelties in Ranunculaceae and Berberis.
- RAGHAVAN,R.S. *Floristic studies in India. The Western Circle.* Bull.Bot.Surv.India 19 (1977; publ. 1979) 95-108.
- & B.G.KULKARNI, *A new species of Dalechampia (Euphorbiaceae) from peninsular India.* Kew Bull. 35 (1980) 323-325, 1 fig.
Incl. key to the 4 West Indian species.
- , N.P.SINGH, U.R.DESHPANDE & B.G.KULKARNI, *Additions to Poaceae of Karnataka State.* J.Bomb.Nat.Hist.Soc. 75 (1979) 935-937.
12 records.
- RAIZADA,M.B. *Recent advances in plant nomenclature.* In: K.S.Manilal (ed.) 'Botany & History of Hortus Malabaricus' (1980) 203-224.
A general account obviously intended for educational purpose in India.
- *RAIZADA,M.S. & H.O.SAXENA, *Flora of Mussoorie.* Vol. 1. Bishen Singh Ma-hendra Pal Singh, 23A, New Connaught Place, Dehra Dun, India (1978) lvi + 645 pp.
Not seen.
- RAO,A.S. *Floristic studies in North-Eastern India (Old Assam region).* Bull.Bot.Surv.India 19 (1977; publ. 1979) 56-60.
- RAO,R.R. *Changing pattern in the Indian flora.* Bull.Bot.Surv.India 19 (1977; publ. 1979) 156-166, 2 pl., 4 tab.
Ecology; deforestation; afforestation; introduced weeds.
- & M.K.V.RAO, *The genus Sonchus L. (Asteraceae) in North-east India.* Acta Botanica Indica 6 (1978) 94-97.
Key to 4 species.
- *RATAJ,K. *Revision of the genus Cryptocoryne Fischer.* Studie ČSAV, Academia, Praha (1975) 174 pp., 63 pl. & maps.
Keys to sections and species; 52 species (some new).
- RATNASABAPATHY,M. *Observations on the occurrence of Zornia cantoniensis Mohlenbr. in Malaysia.* Mal.Nat.J. 34 (1980) 47-51, 3 fig.
Discussion of the differences on the Mohlenbrock microspecies level

*RATTAN: A report of a workshop held in Singapore, 4-6 June 1979 (1980) — Reviewed on page 3612.

RATTENBURY, J.A. Fruit-setting in *Sophora microphylla* Ait. New Zeal.J.Bot. 17 (1979) 423-424, 1 tab.

Curious variation; some specimens are abundantly selfing. Papilion.

RAZI, B.A. Floristic studies in Karnataka - past, present and future.

Bull.Bot.Surv.India 19 (1977; publ. 1979) 112-122.

REDDY, M.I., M.RADHAKRISHNAIAH, L.L.NARAYANA & R.B.GHOSH, Floral anatomy of Nelsonieae (Acanthaceae) with a note on its taxonomic status. Bot.Notiser 133 (1980) 311-317, 2 fig.

Nelsonieae should be retained in Acanthaceae.

REEVE, T.M. The floral emblem of the Enga Province, Papua New Guinea. The Orchadian 6 (1979) 123-125, 3 fig.

Dendrobium engae sp.nov. (Orch.).

----- Miscellaneous notes on New Guinea orchids. No. 1. The Orchadian 6 (1980) 152-153, 1 pl.

5 records (1 new comb.).

----- & P.J.B.WOODS, A preliminary key to the species of *Dendrobium* section *Oxyglossum*. The Orchadian 6 (1980) 195-208, illus.

Key to 27 spp.; notes on each species. East Malesia (Celebes, Moluccas, New Guinea), Micronesia, Solomons, New Hebrides, Fiji.

REYES, M.R. Harnessing research. Lowly Kakawate. Canopy 5, no 7 (1979) 15. *Gliricidia sepium* grown in Luzon for various purposes. Notes on its uses. (Legum.).

RIDSDALE, C.E. The Rubiaceae in Hortus Malabaricus. In: K.S.Manilal (ed.), Botany & History of Hortus Malabaricus (1980) 128-138. Important evaluation.

----- *Leea asiatica* (L.) Ridsd., a new name for *Naluga Rheede*. In: Ditto: 189-190.

Formerly known as *L. crispa* L.

RINTZ, R.E. A revision of the genus *Sarcolobus* (Asclepiadaceae). Blumea 26 (1980) 65-79, 4 fig.

Key to 4 species; descriptions.

----- The peninsular Malayan species of *Dischidia* (Asclepiadaceae).

Blumea 26 (1980) 81-126, 24 fig., 2 tab.

Key to 23 species; 2 new subspecies; many reductions.

RIZZINI, C.T. Sobre *Catharanthus roseus* (L.) G.Don (Apocynaceae) e suas variedades. Arq.Jard.Bot.Rio de Janeiro 22 (1978) 5-28, 4 fig., 15 tab.

Key to 4 varieties based on flower colours; crossings; germination experiments; autogamous.

- * ROBBRECHT, E.V.L. *Bijdragen tot de classificatie van de Ixoroideae en tot de revisie van Tricalysia s.l. (Rubiaceae)*. Thesis. Facult. Wetenschappen van de Rijksuniversiteit Ghent (1980) 2 vols., 128 + 270 pp., illus.; stencilled.
 Extensive treatment of evaluation of characters in Rubiaceae; the suprageneric systems; generic concepts; notes on the African spp.
- *The Hypobathreae (Rubiaceae-Ixoroideae)*. 1. Delimitation and division of a new tribe. Bull.Jard.Bot.Nat.Belg. 50 (1980) 69-77.
- ROBIJNS, A.G. *Bombacaceae*. Revised Handb.Fl.Ceylon ed. New Delhi 1 (1980) 59-71. — See also page 3602.
- ROELOFS, F.M. *The reproductive biology of Cyrtandra grandiflora (Gesneriaceae) on Oahu*. Pac.Sci. 33 (1979) 223-231, 7 fig., 3 tab.
 Self-compatible; no pollinators observed.
- ROJO, J.P. "Repetek" tree of Palawan. Canopy International 5, no 10 (1979) 1, 14.
 Kokoona ochracea (Celastr.) and its uses for burning from oil in the bark.
- *Kaatoan bangkal grows wild in Palawan*. Canopy International 5, no 11 (1979) 5 & 6.
 Anthocephalus chinensis and its uses.
- ROSS, J.H. *A survey of some of the pre-Linnean history of the genus Acacia*. Bothalia 13 (1980) 95-110, 17 fig.
- * ROYEN, P.van, *The alpine flora of New Guinea*. Vol. 2. Cramer, Vaduz (1979) lxviii + 1232 pp., 33-392 fig., 108 pl.
 Gymnosperms and monocot families. — Reviewed on page 3614.
- RUDD, V.E. *Leguminosae*. Revised Handb.Fl.Ceylon ed. New Delhi 1 (1980) 428-458.
 Only 3 tribes, a very small part of the whole. — See also page 3602.
- SAHNI, K.C. & H.B. NAITHANI, *Rhododendron tawangensis sp.nov. from Arunachal Pradesh*. Indian For. 105 (1979) 685-687, 2 fig.
- SALDANHA, C.J. *Acacia gamblei*, a superfluous renaming of *Acacia rugata* Benth. (Fabaceae, Mimosoideae). Acta Botanica Indica 5 (1977) 206.
- SAMPSON, F.B. *Natural hybridism in Pseudowintera (Winteraceae)*. New Zeal. J.Bot. 18 (1980) 43-51, 21 fig., 2 tab.
 Putative hybrid between 2 sympatric species.
- SANDS, M.J.S. *Begonia serratipetala (Begoniaceae)*. Curtis Bot.Mag. n.s. 183 (1980) 37-41, 1 fig., tab. 801.
 From New Guinea.
- SANTOS, J.V. *Observations on the dwarf bamboo of Mt Pulog, Benguet, Philippines*. Kalikasan 8 (1979) 101-107, 5 fig.
 Yushania niitakamensis (Hayata) Keng. Also in Taiwan and S. China; originally described under Arundinaria.

- SASTRAPRADJA, S. & G.G.HAMBALI, *Taro (Colocasia sp.) as a source of carbohydrates, vitamins, and minerals in Indonesian diets.* IFS, Provis. Reports 5 (1979) 17-28.
- Importance of the cultivars and varieties of *C. esculenta*, how to differentiate them mutually and from *C. gigantea*.
- , E.KASIM, I.LUBIS, S.H.A.LUBIS & D.SASTRAPRADJA, *Studies in the Javanese species of Canavalia. III. Morphological characters of a putative hybrid between C. gladiata and C. virosa.* Ann.Bogor. 7 (1979) 35-43, 6 fig.
- SAXENA, H.O. *Floristic studies in Orissa.* Bull.Bot.Surv.India 19 (1977; publ. 1979) 39-41.
- & M.BRAHMAM, *Additions to the flora of Bihar and Orissa. II.* J. Bomb.Nat.Hist.Soc. 75 (1979) 941-942.
Some local records.
- SCHELPE, E.A.C.L.E. & J.J.WOOD, *Dendrobium harveyanum (Orch.).* Curtis Bot. Mag. n.s. 182 (1979) tab. 790, 3 pp. text, 1 fig.
From Burma and North Thailand.
- SCHMID, R. *Comparative anatomy and morphology of Psiloxylon and Heteropxis, and the subfamilial and tribal classification of Myrtaceae.* Taxon 29 (1980) 559-595, 8 fig.
P. is from Seychelles, H. from S. Africa. Detailed tables depict taxonomic history, differences between these genera, Lythraceae and Myrtaceae, and subdivision of the latter into Myrt., Leptosp., Psilox., and Chamelaucioideae. Many facts, comment on Briggs & Johnson.—M.J.
- SCOTT, A.J. *Notes on Myrtaceae in the Mascarenes with some recombinations for taxa from Aldabra, Malaya, New Caledonia.* Kew Bull. 34 (1980) 473-498.
In Appendix 3 spp. of *Stereocaryum* are listed, all transfers from *Eugenia* or *Schizocalyx*, 1 from New Caledonia, 2 from Malaya.
- *A synopsis of Decaspermum (Myrtaceae) in Southeast Asia and China.* Kew Bull. 35 (1980) 403-411.
Key and descr. of 9 species (2 new, 1 new comb.).
- *A new species of Myrtus from the Solomon Islands.* Kew Bull. 35 (1980) 412.
- *SEIDENFADEN, G. *Orchid genera in Thailand VIII. Bulbophyllum Thou.* Dansk Bot.Ark. 33, no 3 (1979) 1-228, 158 fig., 12 col.pl.
Immense amount of information on this very large genus; keys to sections and species (many reductions, many new spp.); excellent figures and details; 150 spp. recognized (from Thailand 137).
- SEITHE (née von HOFF), A. *Rhododendron hairs and taxonomy.* In: J.L.Luteyn & M.E.O'Brien, *Contrib. toward a classification of Rhododendron:* 89-115, 13 fig. New York Bot. Gard. (1980).

- SEN GUPTA,G. A resumé of botanical explorations and floristic studies in the Central Indian State of Madhya Pradesh. Bull.Bot.Surv.India 19 (1977; publ. 1979) 71-88.
- SERIZAWA,S. Studies on the genus *Arisaema* in Japan (1). Group of *Arisaema undulatifolium*. J.Jap.Bot. 55 (1980) 148-156, 3 fig. In Japanese. Key to 3 species (Arac.).
- SHAH,N.C. & D.P.BADOLA, Records of plants growing at high altitudes. J. Bomb.Nat.Hist.Soc. 75 (1979) 934-935. Some high-alpines from c. 6000 m altitude.
- SHAN,Ren-hwa, c.s., New taxa of the Umbelliferae from Xizang (Tibet). Acta Phytotax. Sin. 18 (1980) 374-379. In Chinese. New species in several genera.
- SHANG,Chih-bei, Several new species and varieties of Araliaceae from China. Acta Phytotax. Sin. 18, no 1 (1980) 89-95, 5 fig. In Chinese. Incl. several new species.
- SHARMA,K.P. & B.GOPAL, A note on the identity of *Typha elephantina* Roxb. Aquatic Botany 9 (1980) 381-387, 4 fig., 1 tab. A distinct species; robust habit; elaborate rhizome; stiff trigonal leaves.
- SHARMA,M. Some plants new to the Flora of Punjab Plains. J.Bomb.Nat.Hist. Soc. 74 Suppl. (1979) 683-687. Name list.
- SHARMA,V.S. *Elatine triandra* Schkuhr, an interesting distributional new record for North Western Himalayas. New Botanist 4 (1977) 125-129, 13 fig. Also discussion on difference with *Elatine ambigua*.
- SHAW,H.K.Airy, New Euphorbiaceae from New Guinea. Kew Bull. 34 (1980) 591-598. 8 new species from New Guinea and Bismarcks; 1 new genus (monotypic) based on *Austrobuxus phyllanthoides*.
- Notes on Euphorbiaceae from Indomalesia, Australia and the Pacific. Kew Bull. 35 (1980) 383-399. Notes and new species of 13 genera, incl. *Myricanthe* n.g. n.sp. from New Caledonia.
- A partial synopsis of the Euphorbiaceae-Platylobiae of Australia (excluding *Phyllanthus*, *Euphorbia* and *Calycopeplus*). Kew Bull. 35 (1980) 577-700, 7 fig. Key to c. 50 genera; species listed and commented with full synonymy and distribution; keys to species when more than one is present; some 25 new comb. in *Sauropolis* etc., *Synostemon* reduced to *Sauropolis*. A most important synopsis. Except for the not treated endemic *Stenolobae* the Euph. flora is largely a southerly extension of that of Malesia. — Reviewed on page 3616.

- *New or noteworthy Australian Euphorbiaceae. II.* Muelleria 4 (1980) 207-241.
 Deals with 27 genera and Antidesma (Stilag.). About 2 dozen new species and one dozen reductions; 12 new records either for Australia or Malesia. A most important paper.
- *An alphabetical check-list of native Australian Euphorbiaceae (excluding Phyllanthus, Euphorbia, and the Stenolobeae).* Muelleria 4 (1980) 243-245.
- SHENG,C.K. *Plant introduction and botanic gardens in China.* Pl.Sci.Bull. 26 (1980) 25-28.
 Incl. a list with addresses of Botanic Gardens of Academia Sinica in China.
- SHIH,Chu, *A taxonomic study of the genus Hippolytia Poljak.* Acta Phytotax. Sin. 17, no 4 (1979) 61-71, 2 fig. In Chinese.
 Key to 17 spp. (several new or new comb.) (Comp.).
- *De genere Echinops L. familiae compositarum florae sinicae.* Bull.Bot. Lab.North-East.Forest.Inst. no 5 (1979) 59-71, 1 pl. In Chinese.
 Key to 16 spp. (2 new).
- SHIMIZU,T. *A comment on the limestone flora of Thailand, with special reference to Impatiens.* Acta Phytotax.Geobot. 30 (1979) 180-187, 4 fig., 8 tab.
 Sculpture of seed coats.
- c.s. *A report on the Botanical Expedition to Thailand 1979.* Acta Phytotax.Geobot. 31 (1980) 201-214. In Japanese.
 Localities visited, with some plant names.
- SHUKLA,U. & A.K.BAISHYA, *A contribution to the flora of Manipur.* J.Bomb. Nat.Hist.Soc. 76 (1979; publ. 1980) 224-230.
 53 species of 49 genera newly recorded for the State; *Platycerium wallichii* first recorded for India.
- & S.K.JAIN, *On the nomenclature of some Indian grasses.* Bull.Bot. Surv.India 20 (1978; publ. 1979) 64-68.
- *SIKDAR,J.K. *Studies on the vegetation and flora of Jalpaiguri District, West Bengal.* Thesis. Calcutta Univ. (1980) stencilled, 1250 pp., 25 pl., 21 fig., 4 maps.
 Flora of c. 1250 species.
- , R.B.GHOSH & G.PANIGRAHI, *The Gramineae of the Wallich collection at the herbarium of Calcutta (CAL).* Bull.Jard.Bot.Nat.Belg. 50 (1980) 79-97.
 Evaluation.
- SIMMONS,J.T. *A note on Dendrobium dicuphum F.Mueller.* The Orchadian 6 (1979) 107, 1 fig.
- *Dendrobium Judy Leroy as a natural hybrid? A putative hybrid from Northern Territory.* The Orchadian 6 (1980) 154-155, 1 phot.

- * SIMON, B.K. *A key to Queensland grasses*. Queensl. Dept. Prim. Indus. Brisbane; Bot. Branch Techn. Bull. no 4 (1980) 109 pp. mimeogr., 7 pp. illus. Key to genera, species and infraspecific taxa native and naturalized.
- * ----- *A check-list of Queensland grasses*. Queensl. Dept. Prim. Indus. Brisbane Bot. Branch Techn. Bull. no 5 (1980) 89 pp. mimeogr. In the alphabetical list also indicated the habitat by abbreviations.
- SIMPSON, M.J.A. & E.EDGAR, *Sedges (Cyperaceae) of Banks Peninsula, including (Kaitorete) Ellesmere spit, Lyttelton Hills & North to New Brighton. (A provisional list.)* Canterbury Bot. Soc. J. no 13 (1979) 3-20, 11 pl. Species listed and well pictured.
- * SING, J.S. & B.GOPAL (eds.), *Glimpses of ecology (Professor R. Misra Commemoration Volume)*. Intern. Sci. Publ., Jaipur-302004, India (1978) xv + 592 pp., numerous text-fig. & tab. 42 papers. Review in J. Ecol. 68: 712-713.
- SINGH, M.P., S.B.MALLA, S.B.RAJBHANDARI & A.MANANDHAR, *Medicinal plants of Nepal - prospects and prospects*. Economic Botany 33 (1979) 185-198, 1 map, 3 tab. General about centre for medicinal plants under the Ministry of Forests; names of plants and uses listed.
- SINGH, N.P. *The Herbarium of the Botanical Survey of India at Poona (PUNE)*. Bull. Bot. Surv. India 19 (1977; publ. 1979) 228-235, 4 tab.
- & U.R.DESHPANDE, *Type material in the herbarium of the Botanical Survey of India at Poona*. J. Bomb. Nat. Hist. Soc. 76 (1979; publ. 1980) 24-32. About 90 types listed.
- SINGH, V. *Some interesting plant records for Rajasthan*. J. Bomb. Nat. Hist. Soc. 76 (1979; publ. 1980) 206-209. 16 names listed.
- SIVARAJAN, V.V. & K.T.JOSEPH, *A new variety of Borreria ocyoides (Burm. f.) DC.*, from Tamil Nadu. New Botanist 6 (1979) 133-135, 1 pl.
- & K.S.MANILAL, *Taxonomic notes on Portulaca oleracea Linn. in India*. New Botanist 4 (1979) 29-31. A new variety.
- , C.R.SURESH & K.S.MANILAL, *A note on the identity of 'Pee Vetti' of Hortus Malabaricus*. In: K.S.Manilal (ed.), *Botany & History of Hortus Malabaricus* (1980) 191-192. Would be a Glochidion.
- SLEUMER, H. *Note sur les Flacourtiacées des Mascareignes*. Adansonia sér. 2 19/4 (1980) 495-496. Erythrospermum not in Madagascar; only in Mauritius; 3 infraspecific combinations.

- *A taxonomic account of the Olacaceae of Asia, Malesia, and the adjacent areas.* Blumea 26 (1980) 145-168.
 Precursor to treatment in Flora Malesiana; key to Indo-Malesian and Pacific genera and key to species; only one new species.
- *A system of the genus Rhododendron L.* In: J.L. Luteyn & M.E. O'Brien (eds.), Contrib. toward a classification of Rhododendron: 1-18. New York Bot. Gard. (1980). English translation of the subdivision of the genus of the original (German) paper by Sleumer.
- *Past and present taxonomic systems of Rhododendron based on macro-morphological characters.* In: Ditto: 19-26. Discussion of the taxonomy; key to subgenera and sections.
- SMITH, G.T. & N. KOLICHIS, *The flora and fauna of Coffin Island.* West. Aust. Natur. 14 (1980) 225-228. West Australia, 35°S. Vegetation; species listed.
- SMITH, J.M.B. *The vegetation of the summit zone of Mount Kinabalu.* New Phytol. 84 (1980) 547-573, 6 fig., 7 pl., 12 tab. 83 plots with 98 vascular plants studied between 3300 and 4000 m; several vegetation types distinguished. Comparison with high mountains in New Guinea.
- SMITH, R.M. *A new genus of Zingiberaceae from N. Burma.* Notes R.Bot.Gard. Edinb. 38 (1980) 13-17, 2 fig. Stadiochilus n.g. n.sp.
- *Notes on Zingiberaceae.* Notes R.Bot.Gard. Edinb. 38 (1980) 19-21. New comb. in Boesenbergia, Geanthus and Hedychium; new synonymy in Achasma and Hornstedtia. Affects Borneo and New Guinea species.
- *Three new species of Zingiberaceae from Australia.* Notes R.Bot. Gard. Edinb. 38 (1980) 517-525, 3 fig. In Achasma, Amomum and Alpinia.
- SMITH-WHITE, A.R. *Polyploidy in Sporobolus virginicus (L.) Kunth.* Austr.J. Bot. 27 (1979) 429-437, 14 fig., 3 tab. Variety.
- SMITINAND, T. *Present classification of Dipterocarpaceae from Thailand and Indochina.* Mém. Mus. Natn. Hist. Nat. Paris sér. B Bot. 26 (1979) 11-13. Present names of a number of species.
- , T. SANTISUK & C. PHENGKLAI, *The manual of Dipterocarpaceae of Mainland South-East Asia.* Thai For. Bull. (Bot.) 12 (1979) 137 pp., map, 15 (pag.) fig., 10 phot. A complement to Symington's Manual for Malaya including Burma, Thailand and former Indo-China. Ranges and ecologies tabulated. There are 3 keys to genera or groups: on bark & bole characters, on flowering material, on fruiting material; within each genus or group a key to species. Each species has field descr., distr., ecol., vernac., and synonymy. — Reviewed on page 3599.

- SMYTHE, B. *Ant plants.* Austr. Plants 10, no 81 (1979) 238.
Dendrobium canaliculatum & Dischidia nummularia found together with Myrmecodia on Melaleuca.
- * SOEMARNA, Komar & Ayi SUYANA, *Regeneration and standing stock study on logged-over area at the Forest District Ketapang, West Kalimantan.* Lembaga Penelitian Hutan, Bogor, Laporan no 309 (July 1979) 22 pp. text, 7 tab., and Appendix. In Indonesian, English summary. Incl. a name list.
- * ----- *Regeneration and standing stock study on logged-over area in forest complex S. Tualan, East Kota Waringin Forest District, Central Kalimantan.* Lembaga Penelitian Hutan, Bogor, Laporan no 316 (Aug. 1979) 22 pp. text mimeogr., 7 tab., Appendices. In Indonesian, English summary. Incl. a name list.
- * SOEMODIHARDJO, S., A.NONTJI & A.DJAMALI (red.), *Prosiding seminar. Eko-sistem hutan mangrove.* Jakarta, 27 februari-1 maret 1978. Diselenggarakan Bersama oleh (amongst others) LIPI, Jakarta (1979) 226 pp., illus. In Indonesian; brief abstracts.
- SOHMER, S.H. *Elatinaceae.* Revised Handb. Fl. Ceylon ed. New Delhi 1 (1980) 424-427. — See also page 3602.
- SPETA, F. *Die Gattungen Chaenorhinum (DC.) Reichenb. und Microrrhinum (Endl.) Fourr. im östlichen Teil ihrer Areale (Balkan bis Indien).* Stapfia no 7 (1980) 1-72, 11 fig., 32 tab.
(Scroph.) Sections of Linaria reinstated to generic rank; many new combinations; a few species in India.
- SPICER, R.A. & D.McC.NEWBERY, *The terrestrial vegetation of an Indian Ocean coral island; Wilngili, Addu Atoll, Maldives Islands.* Atoll Res.Bull. 231 (1979) 1-14, 7 fig.
General notes on the vegetation; name list of the collections, largely sand-beach and Barringtonia formation species; a few new records for the Maldives.
- STANLEY, T.D. *Aquatic plants of Queensland. Five common free-floating aquatics.* Advis. Leafl. no 1427 Div. Pl. Indus., Dept. Prim. Indus. (3-1-1979) 1-7, 3 fig. Repr. from Qsl. Agr. J. 1978.
- STEENIS, C.G.G.J. van, *The date of publication of Rottboell's paper on plants of the coasts of Malabar.* In: K.S. Manilal (ed.), *Botany & History of Hortus Malabaricus* (1980) 111-112.
Date probably early 1783; 7 species mentioned.
- *The pollination syndrome.* Fl. Males. Bull. no 33 (1980) 3437-3439.
Pointing to necessity of checking possibility of self-pollination and -fertilisation, even with the most specialized flower types, by bagging or otherwise. Suggestion of examining fertilisation in greenhouses and gardens. Flower biology should elevate itself beyond checking diet, food and feeding habits of insects and other animals.

- *The publication of Blume's Tabellen en Platen voor de Javaansche Orchideeën.* Misc.Pap.Landbouwhogesch.Wageningen 19 (1980) 289-291. Not earlier than instalment 8 of the Bijdr., probably end Dec. 1825 or early 1826.
- *Rheophytes of the world. An account of the flood-resistant flowering plants and ferns and the theory of autonomous evolution* (1981)
— Reviewed on page 3617.
- *STEENIS-KRUSEMAN,M.J.van, *Thesaurus Naturae Tropicae. A concise select subject index to 'De Tropische Natuur'* (incl. Penggmar Alam). Foundation Flora Malesiana, Leiden (1980) 23 pp. mimeogr. In English.
There was no index facilitating access to the 30-odd volumes of the important naturalists journal 'De Tropische Natuur' (in the Dutch language). A limited number of copies is free to libraries and individual biologists who possess the journal.
- STEVENS,P.F. *The correct names for the three elements in the protologue of Calophyllum calaba L.* In: K.S.Manilal (ed.), *Botany & History of Hortus Malabaricus* (1980) 168-176.
- *A revision of the Old World species of Calophyllum (Guttiferae).* J. Arn.Ar.b. 61 (1980) 117-699, 46 fig., 50 maps, 18 tab.
A massive monograph, with copious introductory informative chapters; in all 179 taxa at specific rank, among them 111 named and 16 unnamed from Malesia. No infrageneric subdivision is possible. Highest concentration of species in Malesia as usual in Malaya, Borneo and New Guinea. Many species newly described. A few hybrids indicated, as well as some polyembryonic species. There is no single key, but 7 partially ones, viz. to species of Africa (incl. Madagascar & Mascarenes), Ceylon & Peninsular India, continental Southeast Asia, West Malesia (Malaya, Sumatra, Java, Lesser Sunda Islands), Borneo, Philippines, and Eastern Malesia (Celebes, Moluccas, New Guinea, incl. also Solomons, Queensland, Fiji Is. and New Caledonia). An admirable effort.
- & J.F.VELDKAMP, *The Mt Suckling Expedition of 1972.* Bot.Bull. no 10 (1980) 1-36, 5 pl., 5 tab., 2 maps. Dept of Botany, Box 314, Lae, Papua New Guinea.
Physical features; history of exploration; soils and status of grasslands; effects of drought and grazing; vegetation sketches; checklist of species above the continuous subalpine grassland.
- ST.JOHN,H. *Plants collected on the Sandwich Islands by George Barclay.* Haw.Pl.Stud. 89. Phytologia 43 (1979) 281-286.
Name list.
- *The vegetation of Hawaii as seen on Captain Cook's Voyage in 1779.* Pacif.Sci. 33 (1979) 79-83.
D. Nelson collected on the leeside of Hawaii, in 1779. From the collections some idea gained about the vegetation.

- *The botany of Kauai Island, Hawaii, as seen on Captain Cook's voyage, 1778.* Pacif.Sci. 33 (1979; issued 1980) 325-326.
A small plant list.
- *The botany of Niihau Island, Hawaii, as seen on Captain Cook's voyage, 1778-1779.* Pacif.Sci. 33 (1979; issued 1980) 327.
A small plant list of cultivated plants.
- *Novelties in the genus Pelea (Rutaceae).* Haw.Pl.Stud. 50. Pacif. Sci. 33 (1979) 165-171, 3 fig.
Records and 3 new species.
- *The native species of Senecio (Compositae) in Hawaii.* Haw.Pl.Stud. 53. Pacif.Sci. 33 (1979; issued 1980) 329-332, 2 fig.
S. sandwicensis Less.
- *Monograph of the Hawaiian species of Achyranthes (Amaranthaceae).* Haw.Pl.Stud. 56. Pacif.Sci. 33 (1979; issued 1980) 333-350, 7 fig.
Key to 10 species (3 new, 2 new comb.).
- *New species of Cyrtandra (Gesneriaceae) from Kauai.* Haw.Pl.Stud. 74. Pacif.Sci. 33 (1979; issued 1980) 351-355, 2 fig.
2 new species.
- *Classification of Acacia koa and relatives (Leg.).* Haw.Pl.Stud. 93. Pacif.Sci. 33 (1979; issued 1980) 357-367, 6 fig.
Key to 3 species (2 varieties).
- *The native Hawaiian species of Morinda (Rubiaceae).* Haw.Pl.Stud 94. Pacif.Sci. 33 (1979; issued 1980) 369-379, 5 fig.
Key to 4 species (2 varieties; 1 new sp., 2 new var.).
- *A variety of Colubrina oppositifolia Brongn. ex Kann (Rhamnaceae).* Haw.Pl.Stud. 95. Pacif.Sci. 33 (1979; issued 1980) 381-383, 1 fig.
- *Cyrtandra (Gesneriaceae) from Kauai and Maui.* Haw.Pl.Stud. 96. Pacif.Sci. 33 (1979; issued 1980) 385-393, 3 fig.
3 new species.
- *Revision of the genus Pandanus Stickman. Part 42. Pandanus tectorius* Parkins. ex Z and *Pandanus odoratissimus* L. f. Pacif.Sci. 33 (1979; issued 1980) 395-401, 2 fig.
- *Revision of the genus Pandanus Stickman. Part 43. Pandanus in Tahiti.* Pacif.Sci. 33 (1979; issued 1980) 403-434, fig. 410-422.
Key to 15 species (7 new).
- *Revision of the genus Pandanus Stickman. Part 44. Pandanus piricus* (sect. Elmeria) from the Philippines. Bot.Jahrb. 101 (1980) 389-391, 1 fig.
New species.
- *A new Scaevola (Goodeniaceae) from Kauai.* Haw.Pl.Stud. 92. Bot.Mag. Tokyo 93 (1980) 181-184, 1 fig.
- *Lectotypes in the Lobeliaceae.* Haw.Pl.Stud. 91. Phytologia 45 (1980) 30. — Notes on Clermontia.

- *Evaluation of H. Léveillé's new Hawaiian species.* Haw.Pl.Stud. 76. Phytologia 45 (1980) 289-294. Names listed in families; of 114 species 61 are synonyms, 5 basionyms, 46 accepted.
- *A new variety of Nototrichium viride (Amaranthaceae).* Phytologia 45 (1980) 295.
- *Key to Hawaiian species of Rauvolfia (Apocynaceae).* Haw.Pl.Stud. 99. Phytologia 45 (1980) 354-355. Key to 7 species.
- *Variations of Reynoldsia (Araliaceae) in the Hawaiian Is.* Haw.Pl. Stud. 100. Phytologia 46 (1980) 154. All species reduced to one.
- & R.E.DAEHLER, *The flowering plants of Ka'ula Island, Hawaiian Islands.* Bull.Pac.Trop.Bot.Gard. 10 (1980) 3-7, 4 phot. Name list.
- STODDART,D.R. *Mangroves as successional stages, inner reefs of the northern Great Barrier Reef.* J.Biogeography 7 (1980) 269-284, 7 fig. Composition; communities.
- STONE,B.C. *Balanophora elongata (Balanophoraceae) new to the Malay Peninsula.* Malayan Nat.J. 33 (1979) 129-132, 1 fig. Hitherto only known from Java and Sumatra.
- *A new species and new section of the genus Freycinetia (Pandanaceae) from New Caledonia.* Pacif.Sci. 33 (1979) 149-151, 1 fig., 1 tab.
- *Additions to the Malayan flora. VIII.* Mal.For. 43 (1980). Several new records, some new species (Trigonostemon, Neolitsea, Polyosma, Peperomia) and some varieties. One new Connarus from Sarawak. It is regretted that for several groups specialists of Flora Malesiana were not consulted. The record of Celastrus hindsii is an error.
- *Rediscovery of Thismia clavigera (Becc.) F.v.M. (Burmanniaceae).* Blumea 26 (1980) 419-425, 1 fig. Geomitra reduced to Thismia; 9 species keyed out; T. clavigera now known from Sumatra, Malaya and Borneo.
- STOUTAMIRE,W. *Australian terrestrial orchids, thynnid wasps, and pseudocopulation.* The Orchadian 6 (1979) 110-111. Discussion of data.
- *Pseudocopulation in Australian terrestrial orchids.* The Orchadian 6 (1979) 126-129, 1 pl.
- STYLES,B.T. *Pinus kesiya again.* Canopy 5, no 8 (1979) 5. Rather offensive defense of the use of this name to replace P. insularis.
- SUBRAMANYAM,K. *History of botanical exploration in India.* Bull.Bot.Surv. India 19 (1977; publ. 1979) 1-4.

- SUKTHANKAR,R., J.PATHAK & P.V.BOLE, *The Blatter Herbarium. Bull.Bot.Surv. India* 19 (1977; publ. 1979) 241-243.
- SUN,Bi-sing & Zhi-hao HU, *Six new species of Arundinella from China. Acta Bot.Yunnanica* 2 (1980) 319-330, 4 pl. In Chinese.
- SUNDELL,E. *The subfamilial, tribal, and subtribal nomenclature of the Asclepiadaceae. Taxon* 29 (1980) 257-265.
Type genera indicated, not others.
- SURESH,C.R., V.V.SIVARAJAN & K.S.MANILAL, *The identity of 'Appel' of Hortus Malabaricus. In: K.S.Manilal (ed.), Botany & History of Hortus Malabaricus* (1980) 186-188.
= Premna.
- SUWARSO, *Exploration of Curcuma germplasms in the Bogor district. Pembr. L.P.T.I. Bogor no 31 (1978) 41-55, 2 tab., 1 map.*
70 numbers were collected.
- * SUYANA,A. & K.SOERMARNA, *Regeneration and standing stock study on logged-over area in the S. Dareh forest complex, Southern part of West Sumatera Forest District, West Sumatera. Lembaga Penelitian Hutan, Bogor, Laporan no 331 (March 1980) 24 pp. text mimeogr., 7 tab., appendices, 1 map. In Indonesian; English summary.*
Including a name list.
- SUZUKI,S. *A new variety of Sasaella kogasensis (Nakai) Nakai ex Koidzumi. J.Jap.Bot. 55 (1980) 27-28.*
- *New taxa of Bambusaceae in Seto Inland Sea area of Japan. Hikobia* 8 (1980) 347-349.
4 infraspecific forms of Sasa.
- SYKES,W.R. *Botanical Science. Bibliography of research on the Cook Islands. New Zeal.Nat.Comm.Unesco, DSIR, Lower Hutt (1980) 9-67.*
Commented bibliography.
- SYMON,D.E. *Fruit diversity and dispersal in Solanum in Australia. J.Ade-lade Bot.Gard. 1 (1979) 321-331, 2 fig., 1 tab.*
Biologically a most interesting account of dispersal and uses.
- TAKHTAJAN,A.L. *Outline of the classification of flowering plants 'Magnoliophyta'. Bot.Review* 46 (1980) 225-359.
Complete outline of his system.
- TAMURA,M. *Ranunculaceae of Thailand. J.Phytogeogr.& Taxon.Japan (J.Geo-bot.)* 28 (1980) 14-16.
Taxa listed; 1 new var. The account is incomplete as Eichler (1958) recorded also Anemone sumatrana.
- * TANNER,H. & R.STRINGER, *Converting the wilderness: The act of gardening in Colonial Australia. Gallery Directors Council (1979) 95 pp., 12 col.pl., 138 monochrome illus. Orders: AGDC, Box 369, Royal Exchange, Sydney 2000. — Catalogue of cultivated plants arranged by landscapes, garden types etc. Australian gardens history.*

- * TANTRA, I.G.M. & Y.S.JAFARSIDIK, *Flora inventory of Bukit Tapan Nature Reserve, Kerinci/Jambi*. Lembaga Penelitian Hutan, Bogor, Laporan no 318 (Sept. 1979) 18 pp. mimeogr., 1 fig., 1 map. In Indonesian; English summary. Incl. a name list.
- TAWADA, S. *A new species of Solanum from Ishigaki Island, Ryukyu, Japan*. J.Phytogeogr.& Taxon. 27 (1979) 36-37, 3 fig.
- TAYLOR, F.J. *Rhizophora in the Society Islands*. Pacif.Sci. 33 (1979) 173-176, 1 fig.
Record of *R. stylosa*, probably a rather recent introduction.
- TAYLOR, N.P. & H.K. AIRY SHAW, *Skimmia anquetilia (Rutac.)*. Curtis Bot.Mag. n.s. 182 (1979) tab. 789, 3 pp. text, 1 fig.
West Nepal.
- TERAO, H. *Observations on some taxonomic features of Tetragoga cruciata Brem. (Acanthaceae)*. Acta Phytotax.Geobot. 31 (1980) 57-60, 2 fig.
Transferred to *Strobilanthes*; 1 new comb. Sumatra sp.
- *Notes on some species of Strobilanthes (Acanthaceae) from Thailand (1)*. Acta Phytotax.Geobot. 31 (1980) 61-64.
4 species treated; some reductions.
- THEOBALD, W.L. *Plant collecting in Sri Lanka. II. The dry zone*. Bull.Pac. Trop.Bot.Gard. 9 (1979) 91-94, 3 fig.
- * THORHAUG, A. (ed.), *Botany in China: Report of the Botanical Society of America Delegation to the People's Republic, May 20-June 8, 1978*. Center for Intern. Studies, Stanford Univ. (1978) v + 154 pp., phot. Brief introduction, main research, notes on 36 institutions visited, 27 references. Reviewed in Taxon 29 (1980) 555-556 by T.R. Soderstrom, who went there himself.—M.J.
- THOTHATHRI, K. *A review on the floristic studies in the Andaman and Nicobar Islands up to 1970*. Bull.Bot.Surv.India 19 (1977; publ. 1979) 127-131.
Incl. also a list of endangered species.
- & A.A. ANSARI, *Critical notes on the genus Crotalaria L. - II*. Bull. Bot.Surv.India 20 (1978; publ. 1979) 179-182, 8 fig.
Notes on 2 species.
- TIFFNEY, B.H. *Fruits and seeds of the Brandon Lignite. V. Rutaceae*. J.Ar. Arb. 61 (1980) 1-40, 4 fig., 4 maps, 4 pl., 3 tab.
Survey of fossil Rutaceae; here is added Euodia and descr. of Phellodendron and Zanthoxylum, the first two not known from New World.
- TIREL, C. *Nouvelles espèces de Sloanea (Elaeocarpaceae) en Nouvelle-Calédonie*. Adansonia sér.2, 20/1 (1980) 91-106, 5 pl.
6 new species.
- & J.RAYNAL, *Recherches bibliographiques sur trois espèces d'Elaeocarpus (Elaeocarpaceae)*. Adansonia sér.2, 20 (1980) 169-177, 3 pl.
Some name changes through typification.

- TIRVENGADUM, D.D. *Connaraceae*. Revised Handb.Fl.Ceylon ed. New Delhi 1 (1980) 279-287. — See also page 3602.
- *TIWARI, S.D.N. *The phyto-geography of Legumes of Madhya Pradesh (Central India)*. Bishen Singh Mahendra Pal Singh, 23A, New Connaught Place, Dehra Dun, India (1979) v, xviii + 612 pp., 23 tab., 39 maps, 33 pl. Not seen.
- TOBE, H. *Morphological studies on the genus Clematis Linn. VII. Reinvestigation of Clematis williamsii A.Gray and proposal of its taxonomic transfer to Clematopsis (Ranunc.).* Bot.Mag.Tokyo 93 (1980) 135-148, 8 fig.
- TOWNSEND, C.C. *Amaranthaceae*. Revised Handb.Fl.Ceylon ed. New Delhi 1 (1980) 1-57.
- TSAI, Hsi-tao & Pei-shan CHEN, *New materials for Chinese Amomum L. (Zingiberaceae)*. Acta Phytotax.Sin. 17, no 4 (1979) 90-92, 4 fig. In Chinese.
3 new species.
- TSI, Zhan-huo, *A preliminary study of the orchid genus Dendrobium Sw. in China*. Acta Phytotax.Sin. 18 (1980) 427-449. In Chinese.
57 species keyed out.
- TSOONG, Pu-chiu, *New taxa and new combinations of the genus Sophora*. Acta Phytotax.Sin. 18, no 1 (1980) 71-74. In Chinese.
Critical name list; 1 n.sp. from India; 1 n.sp. from New Hebrides (Kajewski 376), Erromanga I.
- *----- & De-yuang HONG, c.s., *Scrophulariaceae (1)*. Flora Reipubl.Pop. Sinicae 67 (2) (1979) 434 pp., 106 pl. In Chinese.
Taxonomic treatment; in addenda quite a number of new species and other taxa in Latin. A separate volume for Pedicularis was published earlier.
- TSUDA, R.T., F.R.FOSBERG & M.-H.SACHET, *Distribution of seagrasses in Micronesia*. Micronesica 13 (1977) 191-198, 1 fig., 1 tab.
9 species discussed and their geography.
- TSUI, Hung-pin, *Revisic Gueldenstaedtiae sinensis et genus novum affine eae - Tibetia (Ali) H.P.Tsui*. Bull.Bot.Lab.North-East.Forest.Inst. no 5 (1979) 31-58, 2 fig., 6 pl. In Chinese.
Key to 10 spp. (1 new); Tibetia n.g. (G. subg. Tibetia) with 4 spp. (3 new).
- TUCKER, R. *Notes on the palms of Northwestern Cape York Peninsula*. Principles 24 (1980) 99-104, 8 fig. (2 maps).
Casual notes.
- TURNER, B.L. *Revision of the genus Piptanthus (Fabaceae: Thermopsideae)*. Brittonia 32 (1980) 281-285, 1 map.
Indian and Chinese genus; 2 spp.

- TURNER, Ch.E. *Ottelia alismoides* (L.) Pers. (Hydrocharitaceae). Madrono 27 (1980) 177.
Introduced in California, in rice-fields.
- TUYAMA, T. On the genera *Camelliastrum* and *Theopsis* (Theaceae). J.Jap.Bot. 55 (1980) 215-222, fig. 1-3.
Synonyms of *Camellia*; their characters analyzed; 3 new comb. in *Camellia* from China.
- UEDA, K. Taxonomic study of *Magnolia sieboldii* C.Koch. Acta Phytotax.Geo-bot. 31 (1980) 117-126, illus.
2 new subspecies (Magnol.).
- VÁCZY, C. *Hortus Indicus Malabaricus* and its importance for the botanical nomenclature. In: K.S. Manilal (ed.), Botany & History of *Hortus Malabaricus* (1980) 25-34.
Incl. a name list of vernaculars from which new generic names were derived.
- VAID, K.M. The Dehra Dun Herbarium. Bull.Bot.Surv.India 19 (1977; publ. 1979) 236-240.
- & H.B.NAITHANI, A new species of *Rumex* from India. Indian For. 105 (1979) 802-804, 1 fig.
From Punjab; allied to *R. crispus*.
- VATHANA, A. Some ecology of the mangrove swamp. Canopy International 5, no 11 (1979) 16 & 13.
General on mangrove in the Philippines.
- VAUGHAN, P. *Pterostylis barbata* Lindl. and *P. plumosa* Cady. The Orchadian 6 (1979) 138-139, 3 fig.
From Australia.
- VELDKAMP, J.F. The Rijksherbarium at 150 years. Taxon 29 (1980) 101-104.
Brief history, unfortunately with several errors, omissions and inaccuracies.—v.St.
- Conservation of *Notodanthonia* Zotov (Gramineae). Taxon 29 (1980) 293-298.
Against three other names incl. *Monostachya* Merr.; 29 new comb.; occurs in S.America, New Zealand, Australia and with 1 sp. on the high mountains of Malesia; *Blakeochloa* n.g. (with 4 Australian spp.).
- *Setaria olivalis* (Ridl.) Veldk., comb.nov. (Gramineae). Misc.Pap. Landbouwhogesch.Wageningen 19 (1980) 315-320, 1 fig., 1 map.
Synonymy of this West Malesian species.
- Notes on Malesian grasses. VII. *Chikusichloa*, *Digitaria*. Blumea 26 (1980) 387-392, 1 fig., 1 map.
First record of this small E.Asian genus *Chikusichloa* from N.Sumatra (3 spp.). A new *Digitaria* from New Guinea.
- VERDCOURT, B. A note on *Mucuna schlechteri* Harms (Leguminosae-Papilionoidae-Phaseoleae). Kew Bull. 34 (1980) 521-525, 1 fig., 1 map, 1 tab.
Emended descr. of this species; possibly *M.lane-poolei* conspecific.

- *The correct name for the Bambara Groundnut.* Kew Bull. 35 (1980) 474.
Voandzeia subterranea changed into *Vigna subterranea* (L.) Verdc.
- VERMA,D.M. *A perspective on the floristic studies in the South-Eastern corner of Madhya Pradesh and future needs.* Bull.Bot.Surv.India 19 (1977; publ. 1979) 89-94.
- & V.CHANDRA, *Distributional notes on Cyperaceae.* Bull.Bot.Surv. India 20 (1978; publ. 1979) 140-142.
Odd notes on 11 species.
- VERMEULEN,P. *Hemipilia formosana Hayata.* Misc.Pap.Landbouwhogesch.Wageningen 19 (1980) 321-330, 6 fig.
(Orchid.) Critical notes.
- VICKERY,J.W. *Four new species of Stipa (Poaceae).* Telopea 2 (1980) 11-15.
From Australia.
- & S.W.L.JACOBS, *Nassella and Oryzopsis (Poaceae) in New South Wales.* Telopea 2 (1980) 17-23, 1 tab.
Key to 4 genera; notes on 5 species.
- VIDAL,J.E. *Ecologie et répartition géographique des Diptérocarpacées indo-chinoises.* Mém.Mus.Natn.Hist.Nat.Paris sér.B Bot. 26 (1979) 14-18.
Summary of ecology of Dipterocarpaceae.
- *Outline of ecology and vegetation of the Indochinese Peninsula.* In: K.Larsen & L.B.Holm-Nielsen (ed.), Tropical Botany (1979) 109-123.
- VILLIERS,J.-F. *Icacinaceae.* Fl.Nouv.-Caléd.et Dépend. no 9 (1980) 159-174,
pl. 38-41, carte 64-67.
Revision; Anisomallon reduced to Apodytes, 1 new comb.
- *Corynocarpaceae.* Ibid. 175-178, pl. 42, carte 68.
1 species.
- *Olacaceae.* Ibid. 179-187, pl. 43-44, carte 69-70.
2 species; in Olax a new variety.
- WADHWA,B.M. *Floristic studies in North-Western India - Present status and future strategy.* Bull.Bot.Surv.India 19 (1977; publ. 1979) 185-194.
- WANG,Cheng-ping, c.s. *A taxonomical study of Phyllostachys, China (cont.).* Acta Phytotax.Sin. 18, no 2 (1980) 168-193, 14 fig. In Chinese.
Descr. of 39 spp. (11 new) (Gram.-Bamb.).
- & Guang-han YE, *On the problems of the classification of Chinese bamboos with creeping rhizomes.* Acta Phytotax.Sin. 18 (1980) 283-291, 4 fig. In Chinese.
Key to 13 genera.
- WANG,Ching-jui, *Two new species of Trigonotis Stev. from Xizang (Tibet).* (Borag.) Acta Phytotax.Sin. 18, no 2 (1980) 254-255, 1 fig. In Chinese.

- * WANG, Fa-tsuan & Tsin TANG (redact.), *Liliaceae* (1). *Flora Reipubl. Pop. Sinicae* 14 (1980) 1-308, 53 pl. In Chinese.
272 species treated, Allium and Lilium being the largest; 27 new taxa (mostly varieties).
- * ----- & ----- (redact.), *Liliaceae* (2). *Flora Reipubl. Pop. Sinicae* 15 (1978) xii + 280 pp., 80 fig. In Chinese.
24 genera (Smilax largest); keys; c. 25 new species.
- WANG, Wen-tsai, *Taxa nova Gesneriacearum e Flora Tibetica*. *Phytologia* 45 (1980) 31-34, 1 fig.
3 species. Translated from *Acta Phytotax. Sin.*
- *Notulae de Gesneriaceis sinensis*. *Phytologia* 45 (1980) 301-302.
Many new species and critical notes on S. Chinese species. Key to 23 spp. of China; same for Lysionotis (11 spp.). Translated from *Acta Phytotax. Sin.*
- *Notulae de Gesneriaceis sinensis* (contd). *Phytologia* 45 (1980) 361-380, 12 fig.
Species of Didissandra, Corallodiscus, Oreocaris, Petrocodon, Akylostemon, Opitandra, Chirita, Didymocarpus. Translated from *Acta Phytotax. Sin.*
- *Classificatio specierum sinensium Pellionae (Urticaceae)*. *Bull. Bot. Lab. North-East. Forest. Inst. Harbin, China* 6 (1980) 45-66, 1 pl.
In Chinese. Key to 17 species (several new).
- *Classificatio specierum sinicarum Elatostematis (Urticaceae)*. *Ibid.* 7 (1980) 1-96, 6 phot., 3 pl., 3 maps. In Chinese.
Key to 90 species (many new).
- * ----- (ed.), *Ranunculaceae* (2). *Ranunculoideae*. *Flora Reipubl. Pop. Sinicae* 28 (1980) xiii + 390 pp., 41 fig., 106 pl. In Chinese.
Contains a large number of new species, varieties and combinations
- WANNER, H. & S. SOEROHALDOKO, *Transpiration types in montane rain forest*.
Ber. Schweiz. Bot. Ges. 89 (1979) 193-210, 1 fig., 7 tab.
Leaf evaporation in different storeys of rain forest at Tjibodas, West Java.
- WATER, Th.P.M. van de, *A taxonomic revision of the genus Sabia (Sabiaceae)*.
Blumea 26 (1980) 1-64, 9 fig. (1 map).
Indo-Malesian genus; heavy reduction in number of species (55 to 17, with 2 new species); several keys; descr.; identification list.
- WEBER, A. *Ornithoboea arachnoidea - An 'Orchid-Flowered' gesneriad*.
Gloxinian 29 (1978) 9-12, 1 fig.
Known since 1912, redescribed, from N. Thailand, on limestone.
- *Beiträge zur Morphologie und Systematik der Klugieae und Loxonieae (Gesneriaceae)* VIII. Ein typologischer Vergleich zwischen Rhynchosciadium klugiodoides und Loxonia. *Linzer Biol. Beitr.* 10/1 (1978) 217-228, 2 fig.
A Philippine species.

- *Die Homologie des Perigons der Zingiberaceen. Ein Beitrag zur Morphologie und Phylogenie des Monokotylen-Perigons.* Pl.Syst.Evol. 133 (1980) 149-179, 11 fig.
Mainly on *Nicolaia elatior*.
- WEBSTER,G.L. *A revision of Margaritaria (Euphorbiaceae).* J.Arн.Arб. 60 (1979) 403-444, 13 fig., 6 maps, 2 tab.
Pantropical; key to 14 spp.; distr. is peculiar; 3 spp. American, 3 African, 4 Madagascar, Ceylon 1, Indo-Australia 1, Luzon 1, Australia 1.
- WEE,Y.C. *Concerning Nepenthes seedlings.* Mal.Nat.J. 32 (1978) 105-106.
Seedlings of 2 species, easily obtained on wet filter paper.
- *Vascular epiphytes of Singapore's wayside trees.* Gard.Bull.Sing. 31 (1978) 114-126, 12 fig., 2 tab.
Measurements on 11 spp. (2 palms), highest number of epiphyte sp. on *Enterolobium saman*. Some tree species are more infested than others; increase with age of host tree.
- WEIBEL,R. *Espèces nouvelles du genre Elaeocarpus provenant des îles de Samar (Philippines), de Bornéo, de Sumatra, de Flores et de Soembawa.* Candollea 35 (1980) 511-540, 6 fig., 6 tab.
13 new species from Samar (1), Borneo (3), Sumatra (2) and Lesser Sunda Islands (7).
- WET,J.M.J.de, L.L.OESTRY-STIDD & J.I.CUBERO, *Origins and evolution of foxtail millets (Setaria italica).* J.d'Agric.Trad.et de Bot.Appl. 26 (1979) 53-64, 6 fig.
- WHEATLEY,B.P. *Riverine secondary forest in the Kutai Nature Reserve, East Kalimantan, Indonesia.* Mal.Nat.J. 32 (1978) 19-29, 5 fig., 2 tab.
Structure, composition; plant listing by vernaculars.
- *WHIBLEY,D.J.E. *Acacias of South Australia.* Govt.Printer S.Australia (29-2-1980) 240 pp.
97 species recognized; each species with a map, drawing & photogr.
- *Acacia symonii, a new species from the north-western region of South Australia.* J.Adelaide Bot.Gard. 2 (1980) 167-169, 1 fig.
- WHISTLER,W.A. *The vegetation of Eastern Samoa.* Allertonia 2 (1980) 45-190, 32 fig., 28 tab., 6 append.
- *----- *Coastal flowers of the tropical Pacific. A guide to widespread seashore plants of the Pacific islands.* Publ.Office, Pacif.Trop. Bot.Gard., Lawai, Kauai, Hawaii (1980) 84 pp.
The first of a series of semi-popular colour-illustrated guides; descr. 80 species.
- WHITMORE,T.C. *Macaranga faiketo, a Melanesian montane endemic. Studies in Macaranga IX.* Kew Bull. 34 (1980) 607.
1 new species.
- *A monograph of Agathis.* Pl.Syst.Evol. 135 (1980) 41-69, 6 fig.
Key to 13 species and several varieties.

- *Macaranga in New Guinea and the Bismarck Archipelago. Studies in Macaranga VIII.* Kew Bull. 34 (1980) 599-606, 1 tab.
8 new species.
- *Utilization, potential, and conservation of Agathis, a genus of tropical Asian conifers.* Econ.Bot. 34 (1980) 1-12, 13 phot.
Rather extensive discussion on utilization, cultivation, propagation, future potentials, and conservation.
- & C.N.PAGE, *Evolutionary implications of the distribution and ecology of the tropical conifer Agathis.* New Phytol. 84 (1980) 407-416.
A general review of the aspects of chorology and ecology. Only in N. Queensland and New Caledonia are sympatric species, suggesting old Gondwanic centres from where dispersal occurred.
- & ----- *Evolutionary implications of the distribution and ecology of the tropical conifer Agathis.* New Phytol. 84 (1980) 407-416, 2 fig.
Range and niches of the 13 spp. distinguished briefly; descr. Except in New Caledonia and Queensland species are allopatric; Agathis expanded its range from the two Gondwanic centres and is most successful in competition with Angiosperms.
- WHITTEN,A.J. *Arenga fruit as a food for gibbons.* Principes 24 (1980) 143-146, 2 fig.
Observations in Siberut I. (off West Sumatra).
- WILSON,K.L. *Notes on some Australian species of Cyperaceae.* Telopea 1 (1980) 457-467, pl. XXVI-XXVII.
4 new species, 2 new comb. in various genera; some species reduced, some others reinstated; keys in Baumea, Bulbostylis, and Gahnia; new records for Australia.
- *The genus Rhyncharrhena (Asclepiadaceae).* Telopea 2 (1980) 35-39, 2 fig., 1 tab.
Key to 3 genera; 1 new combination.
- WILSON,P.G. *A revision of the Australian species of Salicornieae (Chenopodiaceae).* Nuytsia 3 (1980) 3-154, 72 fig., 22 maps.
Key to 6 genera, 5 of which treated (3 new and endemic to Australia). Many new species and comb., result of a long and careful study in the herbarium and the field. New view mainly based on flower characters. The largest effect is splitting Halosarcia n.g. from Arthrocnemum s.s., with 23 spp., mostly Australian, except one, H. indica, which is widespread to Malesia, India and East Africa.
- *WOMERSLEY,J.S. *Manual for plant collecting and herbarium development.* FAO Operations Service, For.Dept., Via delle Terme di Caracalla, 00100 Rome, Italy (1980) 147 pp. mimeogr., 18 fig.
Excellent guide for field work, herbarium technique and administration. Special instructions are given for aquatic plants, Pandanus, Musa, bamboos, palms, Araceae and wood samples. A very concise

bibliography and a full index are facilities of this work which was largely based on precursory papers by Womersley made in Papua New Guinea. It was mainly intended for the development of the Forestry Research Institute at Chittagong, Bangladesh.

- * WONG,T.M. *Wood structure of the lesser known timbers of Peninsular Malaysia*. Malayan For. Records no 28 (1976) xii + 115 pp., illus. Anatomical descriptions and photographs of 49 species.
- WOON,C. & Hsuan KENG, *Observations on stamens of the Dipterocarpaceae*. Gard.Bull.Sing. 32 (1979) 1-55, 31 fig., 1 pl., 1 tab., 2 diagr. Detail examination of 42 species of 13 genera of Dipterocarpoideae.
- WRIGHT,A.E. *Flora and vegetation of the Cavalli Islands (except Motukawanui), Northern New Zealand*. Tane 25 (1979) 61-100, 4 fig., 2 tab.
- *Vascular flora of Motukawanui Island, Cavalli group, Northern New Zealand*. Tane 25 (1979) 101-107, 1 tab.
- * WRIGLEY,J.W. & M.FAGG, *Australian native plants*. Collins, Sydney (1979) 222 pp., 25 pp. index, 140 col.pl., 300 black and white plates and line drawings. Ref. J.Adelaide Bot.Gard. 2: 233. Over 2500 spp.; descr.; 140 col.phot.
- WU,Cheng-yih, *The regionalization of Chinese flora*. Acta Bot.Yunnanica 1, no 1 (1979) 1-22, 1 map. In Chinese. With English summary. Subdivision of China into plantgeogr. provinces and districts.
- & Shu-kun CHEN, *Materiae ad florum Polygalacearum sinicarum*. Acta Bot.Yunnanica 2 (1980) 75-90, 5 fig. In Chinese. 2 new spp. in Xanthophyllum; Polygala 8 new spp. and some vars.
- & Chu HO, *Species nova Violaceaenum e Prov. Sichuan*. Acta Bot.Yunnanica 1, no 1 (1979) 149-150. 1 new Rinorea.
- * ----- & Hen LI, *Araceae. Lemnaceae*. Flora Reipubl. Pop. Sinicae 13 (2) (1979) 242 pp., 41 pl. No novelties.
- & ----- *Two new plants of Meliaceae from Xizang (Tibet)*. Acta Phytotax.Sin. 18, no 1 (1980) 110-111, 1 fig. 1 new species in Walsura and in Dysoxylum.
- WU,Kuo-fang, *New species of Chloranthaceae from China*. Acta Phytotax.Sin. 18, no 2 (1980) 220-223, 3 fig. In Chinese. 11 taxa described (3 new spp. and varieties).
- WU,Ying-siang & Sing-chi CHEN, *A taxonomic review of the orchid genus Cymbidium in China*. Acta Phytotax.Sin. 18 (1980) 292-307, 3 fig., 1 tab. In Chinese. Key to 20 species; some varietal new combinations.
- WYK,A.E.van, *A note on the seed morphology of the genus Eugenia L. (Myrtaceae) in Southern Africa*. J.S.Afr.Bot. 46 (1980) 115-119, 2 fig. Two embryo-types in the South African species.

- XU,Yin, *The nomenclature of Chinese drug plant 'Huangteng'*. *Acta Phytotax.Sin.* 18 (1980) 389-390, 1 fig. In Chinese.
Fibraurea recisa Pierre (*Menisp.*).
- XUE,Ji-ru, Shi-ren DONG, Jia-hu YIU & Shu-de HONG, *Eupatorium coelestium L.*: its adaptability, damage and control. *Acta Bot.Yunnanica* 1, no 1 (1979) 106-114, 1 fig. In Chinese.
 North American introduction.
- YAKOVLEV,G. *Notae de genere Sophora L.* *Nov.Syst.Pl.Vasc.* 17 (1980) 156-160, 1 fig. In Russian.
 Key to 10 spp. (1 new from N.Sumatra; 1 new comb. from Java, and 1 from Thailand).
- YAMAZAKI,T. New or noteworthy plants of Scrophulariaceae from Indo-China (4). *J.Jap.Bot.* 55 (1980) 1-13, 4 fig.
Ancistrostylis n.g. based on a *Herpestis*; 2 new spp. of *Adenosma*; new comb. in *Sopubia* (*Petitmenginia* Bonati is reduced); records of *Centranthera*, and a new variety in *Mazus*.
- New or noteworthy plants of Scrophulariaceae from Indo-China (5).
J.Jap.Bot. 55 (1980) 204-208, 1 fig.
 Key to 4 species and a variety of *Pedicularis* of Indo-China.
- New or noteworthy plants of Scrophulariaceae from Indo-China (6).
J.Jap.Bot. 55 (1980) 328-336, 5 fig.
 1 new sp. of *Torenia*, *Lindernia* (3), *Limnophila* (2) from Indo-China.
- YANG,Chun-yu, Revision of *Crotalaria* in China. *Bull.Bot.Lab.North-East.Forest.Inst.Harbin,China* 7 (1980) 105-120, 2 pl. In Chinese.
 Key to 38 species (4 new species).
- YANG,Yen-chin & Pu-hwa HUANG, *Podocarpium* (Benth.) Yang et Huang - Genus novum familiae Leguminosarum. *Bull.Bot.Lab.North-East.For.Inst.Harbin China* no 4, ii (1979) 1-15. In Chinese.
 Transfer by inflation of a section of *Desmodium*; new combination.
- YANG,Yi-guang, About the principles and units of vegetational regionalism in Yunnan. *Acta Bot.Yunnanica* 2 (1980) 441-450, 1 fig. In Chinese.
 English summary. 5 zones distinguished; further to be subdivided in more provinces and subprovinces.
- YONG,Hoi-sen, Orchid Portraits. 7. Pigeon Orchid. *Nature Malaysiana* 4, no 4 (1979) 26-27, 2 phot.
Dendrobium crumenatum; popular descr. of ecology.
- YÜ,Te-tsung & Chao-luan LI, A study on the genus *Potentilla* of China. *Acta Phytotax.Sin.* 18, no 1 (1980) 1-14. In Chinese.
 Description of 12 new species and 8 varieties; new systematic infra-generic arrangement.
- & ----- *Taihangia* Yü et Li- a new genus of Rosaceae from China.
Acta Phytotax.Sin. 18 (1980) 469-472, 1 fig. In Chinese.
 Allied to *Geo* L. and *Acomastylis* Greene.

- , Ling-ti LU & Tsue-chih KU, *Taxa nova Rosacearum Xizangensium.*
Acta Phytotax.Sin. 18 (1980) 490-503. In Chinese.
In various genera (16 new species).
- YUEH, Chung-hsi & Ching-yung CHENG, *The Chinese medicinal species of the genus Trichosanthes L.* Acta Phytotax.Sin. 18 (1980) 333-352, 7 fig.
In Chinese. Key and description of 21 species (several new or new records).
- ZEIST, W.van, N.A.POLHAUPESSY & I.M.STUYTS, *Two pollen diagrams from West Java. A preliminary report.* In: Bartstra & Casparie (eds.), *Modern Quaternary Research in Southwest Asia* 5 (1979) 43-56, 2 pl., 3 diagr.
Two sites in the mountains of West Java: Situ Gunung (Mt Gedeh) and Telaga Patengan (Mt Patuha); from 8000 BP upwards. The only aberrant pollen is that of Pinus in Situ Gunung.
- ZHANG, Zhi-ying, *A study of the genus Buddleja Linn. in Tsingling Range.*
Acta Phytotax.Sin. 18 (1980) 353-356, 2 fig. In Chinese.
8 spp. listed, some new (Logan.).

CROSS-SECTIONING FRUITS

In recent studies of the genus *Terminalia* (Combretaceae) photographs of the cross-sections of fruit were required to illustrate the distribution of the various tissues and structures present in the fruit. Because of the variation in tissues from the soft mucilaginous cells of the outer areas to the hard sclerenchymatous core of the fruit normal methods of cutting the fruit invariably resulted in squashing the soft tissue.

The following method was developed to avoid squashing the fruit and as a result clear photographs could be taken showing all structures without distortion.

A sheet of waterproof silicon carbide paper is placed in a flat tray and covered with approximately one cm of water. The fruit is rubbed on the wet paper and this gives a flat section. If the fruit is large, a coarse grade paper can be used to quickly grind away to the level required and then a finer grade used to give the smooth finish. The paper is obtainable in several grades and is sold under trade names such as a 'Wet or dry'. It is commonly used in producing the highly polished painted surface required in automobile repairs.

The process is not slow. A good cross section of a ripe apricot has been obtained in less than 10 minutes. The method has also been used to trace vascular tissue and canals in hard fruits because frequent observations can be made as the grinding proceeds. — N. Byrnes, Queensland Herbarium.