

Orchid Research Newsletter No. 42

Introduction

The Third Monocot Conference in Ontario, California, attracted over 300 delegates from over 30 countries in March 2003. These meetings are held every five years and have proved to be a popular and productive forum for meeting other researchers and for the frank exchange of views on all aspects of the monocots. This and the previous two meetings were held in conjunction with the second to fourth International Grass Symposia. The orchid sessions occupied two days of the conference and included a number of fine presentations, mostly of a molecular nature.

The World Checklist of Orchids on the Kew website (www.kew.org/data/monocots) was launched to coincide with the Conference and is part of a larger project to provide a baseline checklist of all monocots. Readers are encouraged to dip into the checklist and send their comments to Rafael Govaerts (r.govaerts@rbgkew.org.uk), who is co-ordinating the Checklist project. All contributors to the checklist will be fully acknowledged. Rafael provides an introduction to the Monocot Checklist in this issue and more details of the orchid content. A sound basic taxonomy for the family should be an exceptionally useful tool for all orchid studies, as it will enable organization and retrieval of information in databases.

Reports received from the recent 1st International Conference on Neotropical Orchidology in San Jose, Costa Rica, have been enthusiastic. It provided a great opportunity for orchid scientists to meet and discuss advances in our knowledge of the orchids of the region. Alec Pridgeon provides a report on the Conference in this issue.

The publication of volume 3 of *Genera Orchidacearum* coincided with the 13th European Orchid Conference held in London in March. Oxford University Press have "done us proud" in their production. A summary of its contents can be found in this Newsletter. The project is now at the halfway stage in terms of volumes and, optimistically, four-fifths complete in terms of subfamilies. Volumes 4-6 will concentrate on the subfamily Epidendroideae and include most of the horticulturally important genera.

I have had an encouraging month on the native orchid front! I just returned from a couple of days in the North of England looking at the ongoing reintroduction programme for the lady's slipper orchid (*Cypripedium calceolus*). Results are promising, and the number of plants of native origin now growing numbers in the hundreds with flowering plants increasing year-on-year. This contrasts dramatically with the solitary plant that was discovered in 1933 and survived in isolation for

over 60 years. The original plant continues to thrive but is now surrounded by seedlings, some of which have also flowered.

This *Orchid Research Newsletter* is now only in electronic form on the Kew website (<http://www.rbkew.org.uk/herbarium/orchid/>) We hope that you continue to contribute.

Phillip Cribb

News from Correspondents

Kudrin, Sergey (St. Shukina, 55 Arkhora, Amur region, Russia 676740) has just spent a full year in Khindan state nature reserve and is willing to annotate orchids of the Amur region.

Lang, David (1 Oaktree, Barcombe, Lewes, E. Sussex, BN8 5DP, United Kingdom) has recently published *Sikkim Himalaya – Travels in the Cloud Kingdom*, which covers many terrestrial orchids but also has a specialist chapter on the forest orchids of Sikkim by Mohan Pradhan of Gangtok.

Li Heng (Department of Plant Taxonomy & Phytogeography, Kunming Institute of Botany, Chinese Academy of Sciences, Heilongtan, Kunming 650204, Yunnan, P. R. of China) has described two new species, *Cymbidium chawalongense* and *Calanthe dulongense*, which will be published this year in *Novon* and *Acta Phytotaxonomica Sinica*, respectively. His Flora of Orchidaceae in Yunnan will also be published this year by Science Press in Beijing.

Light, Marilyn H. S. (new address: 174 Jolicoeur, Hull, Quebec, Canada J8Z 1C9; milight@igs.net) has recently published her study on the climatic influences on flowering and fruiting of *Cypripedium parviflorum* var. *pubescens*.

Pedersen, Henrik Aerenlund (Botanical Museum, University of Copenhagen, gothersgade 130, DK-1123 Copenhagen K, Denmark; henrikp@bot.ku.dk) continues his field work on *Dactylorhiza* in Greece and well as analysis and publication of data collected previously. He is to coordinate the preparation of the orchid volume for Flora of Thailand. Work on the first installment, covering Cypridioideae, Vanilloideae, and Orchidoideae, will begin this year. While in Thailand working with botanists from Queen Sirikit Botanic Garden (Chiang Mai) and the Forest Herbarium (Bangkok) on the Flora of Thailand project, he also collected data on the rare, holomycotrophic *Gastrodia exilis* for publication.

Sayers, Brendan (National Botanic Gardens, Glasnevin, Dublin 9, Ireland) has recently published (with E. Charles Nelson) *Orchids of Glasnevin: An*

Illustrated History of Orchids in Ireland's National Botanic Gardens and is now working on *Ireland's Wild Orchids* with botanical artist Susan Sex, due out in 2004.

Stancato, Giulio Cesare (new address: Centro de Horticultura, Instituto Agronomico, Caixa Postal 28, CEP 13001-970, Campinas, SP, Brasil) is currently focusing on the *in-vitro* environment and its control in micropropagation (see Recent Literature).

Wessjohann, Ludger A. (new address: Institut für Pflanzenbiochemie, Natur- und Wirkstoffchemie, Weinberg 3; D-06120 Halle (Saale) Germany) is currently studying composition and metabolic profiling of orchid flower oils with Guenter Gerlach.

1st International Conference on Neotropical Orchidology

Superior organization, a diverse and enlightening lecture programme, beautiful weather, and field trips to survey some of the richest biodiversity anywhere. What else could anyone want?

The 1st International Conference on Neotropical Orchidology, held 19-25 May 2003 in San Jose, Costa Rica, was a critical success by any yardstick. Almost 200 registrants from 20 countries participated in the first of these scientific conferences to be held in Costa Rica every three years, supported by Fundación C. H. Lankester, Jardín Botánico Lankester of the University of Costa Rica, Ministerio del Ambiente y Energía of Costa Rica, and the Orchid Specialist Group of the Species Survival Commission (IUCN).

A pre-Conference, two-day workshop on population dynamics applied to orchid conservation was organized by Raymond Tremblay of the University of Puerto Rico. Participants, even those with no prior background in the theory and statistics of population studies, all benefited immensely and were anxious to apply what they had learned when they returned home. There was also a one-day bus trip to two local orchid nurseries specializing in species and, during the Conference, trips to the Museo Nacional and the Orchid Show in Cartago.

Through the week there were poster and lecture sessions devoted to Information and Data Management, History of Orchidology, Advances in Orchid Phylogeny, Germination and Micropropagation, Education for Conservation, Population Studies, Perspectives in Orchid Production and Management, and Pollination Biology with many well-known speakers, e.g. Robert Dressler, Calaway Dodson, Norris Williams, Günter Gerlach, Joseph Arditti, Gustavo Romero-González, Carlos Ossenbach, Jorge Warner,

Stig Dalström, David Roberts, Germán Carnevali, Raymond Tremblay, Pavel Kindlmann, Simon Pugh-Jones, and Marilyn Light. Simultaneous translations in Spanish and English were available, although by the end of the week many abandoned their earphones as they became more bilingual! As a most efficient departure from the publication of a volume of Proceedings a year or more after the fact, a special issue of *Lankesteriana* (Volume 7) with almost 200 pages of summaries of talks was available at the Conference. Franco Pupulin is to be congratulated for editing the volume so superbly.

The Third Meeting of the Mesoamerican Regional Orchid Specialist Group of the IUCN/SSC, was held on the last day, ably chaired by the Group's Coordinator, Jorge Warner. Capping the week was a Gala Dinner and tours of Lankester Botanical Garden and Tapantí National Park.

There are so many to acknowledge in coordinating such a successful Conference, but at the top of list must surely go Carlos Ossenbach (Executive Coordinator of Fundación C. H. Lankester), Pilar Casasa (President, Fundación C. H. Lankester), Franco Pupulin (Scientific Coordinator, University of Costa Rica), and Jorge Warner (General Coordinator and Director of Lankester Botanical Garden, University of Costa Rica).

I encourage everyone to attend the 2nd International Conference in San Jose in 2006 and thank the organizers of the spectacular 1st.

Alec Pridgeon

Global Orchidaceae Checklist

Over the past three years, the Monocot Checklist Project at the Royal Botanic Gardens, Kew, has been aiming to create a global checklist of all monocot families. One of the latest families to be completed is Orchidaceae. This orchid checklist includes about 24,000 accepted species and 65,000 names in total. The data included are name, place of publication, synonymy, and global distribution. One of the main uses of the list will be to check spelling and synonymy of orchid names. The data follow the generic concepts of *Genera Orchidacearum* and are part of a wider project meant to bring together knowledge and information on plant species. This electronic plant information centre (ePIC) will eventually provide illustrations, local uses, molecular data, conservation ratings, and much more.

The database is updated regularly as about 800 new names are added each year. With this continued annual increase, the number of orchid species may eventually reach 30,000 or more. The currently accepted

classification of the orchids is also in a state of flux as new evidence, mainly from DNA studies, is incorporated into an increasing data set that forms the basis of assessments of generic and higher affinities. The online checklist will, however, try to provide a current taxonomic concept.

The whole checklist is currently available on the Internet as a text file (<http://www.rbgekew.org.uk/data/monocots/>). Data there are presented as a synonymized checklist, giving each accepted species with its distribution followed by its synonyms. At the end of each genus entry, the list of synonyms is given alphabetically. By the end of the year the data will be available as a searchable database. Searches will be possible on the different elements of the checklist so that, for example, regional lists can be made. Such regional lists may be helpful in trying to determine plants from particular areas or for assessing the conservation status of a taxon in a particular region.

**Rafael Govaerts
Phillip Cribb**

Recent Orchid Nomenclature

We thank Rosemary Davies for supplying new orchid names received by *Index Kewensis* from 15 November 2002 through 28 May 2003.

×*Alantuckerara* Ross Tucker, J.M.H.Shaw & Griffiths in *Orchid Rev. Suppl.*, 110(1248): 108 (2002). 2002 (*Neogardneria* × *Promenaea* × *Zygopetalum*).

×*Ascoparanthera* J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1248): 108 (2002). 2002 (*Ascoglossum* × *Paraphalaenopsis* × *Renanthera*).

×*Ascorhynopsis* J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1248): 108 (2002). 2002 (*Ascocentrum* × *Paraphalaenopsis* × *Rhynchostylis*).

×*Aspezia* Pozzi & J.M.H.Shaw in *Orchid Rev. Suppl.*, 111(1249): 12 (2003). 2003 (*Aspasia* × *Rodriguezia*).

×*Calaeonitis* J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1244): 29 (2002). 2002 (*Caularthron* × *Laelia* × *Sophronitis*).

×*Calopotilla* Yannetti & J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1248): 108 (2002). 2002 (*Bletilla* × *Calopogon*).

×*Caulaelia* J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1244): 29 (2002). 2002 (*Caularthron* × *Laelia*).

×*Chilosimpliglottis* Jeanes in *Muelleria* 16: 81 (2002). 2002 (*Chiloglottis* × *Simpliglottis*).

×*Chilosimpliglottis pescottiana* (R.S.Rogers) Jeanes in *Muelleria* 16: 81 (2002). 2002: *Chiloglottis pescottiana* (*Chiloglottis trapeziformis* × *Simpliglottis valida*).

×*Chinheongara* C.H.Tan ex J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1244): 27 (2002). 2002 (*Ascocentrum* × *Phalaenopsis* × *Rhynchostylis*).

×*Fredclarkeara* F.W.Clarke & J.M.H.Shaw in *Orchid Rev. Suppl.* 111(1250): 31 (2003). 2003 (*Catasetum* × *Clowesia* × *Mormodes*).

×*Gomadachtia* J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1248): 108 (2002). 2002 (*Ada* × *Bracthia* × *Gomesa*).

×*Hertensteinara* J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1248): 108 (2002). 2002 (*Cischweinfia* × *Leochilus* × *Oncidium* × *Rodriguezia*).

×*Johnsonara* J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1248): 108 (2002). 2002 (*Ascocentrum* × *Ascoglossum* × *Paraphalaenopsis* × *Renanthera*).

×*Lachelinara* J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1248): 108 (2002). 2002 (*Ascocentrum* × *Paraphalaenopsis* × *Renanthera*).

×*Lavrihara* J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1248): 108 (2002). 2002 (*Arachnis* × *Ascocentrum* × *Paraphalaenopsis* × *Vandopsis*).

×*Lycida mathiasiae* (G.C.Kenn.) Oakeley in *Orchid Digest* 67(1): 28 (2003). 2003: *Lycaste mathiasiae* (*Ida locusta* × *Lycaste macrophylla*).

×*Lycida* Oakeley in *Orchid Digest* 67(1): 28 (2003). 2003 (*Ida* × *Lycaste*).

×*Meirmosesara* J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1248): 109 (2002). 2002 (*Ascocentrum* × *Paraphalaenopsis* × *Phalaenopsis* × *Vanda*).

×*Menziesara* J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1248): 109 (2002). 2002 (*Ascocentrum* × *Paraphalaenopsis* × *Rhynchostylis* × *Vanda*).

×*Oderara* J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1248): 109 (2002). 2002 (*Arachnis* × *Paraphalaenopsis* × *Renanthera* × *Vanda* × *Vandopsis*).

×*Paracentrum* J.M.H.Shaw in *Orchid Rev. Suppl.*,

110(1248): 109 (2002). 2002 (*Ascocentrum* × *Paraphalaenopsis*).

×*Paraottis* J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1248): 109 (2002). 2002 (*Paraphalaenopsis* × *Trichoglottis*).

×*Parastylis* J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1248): 109 (2002). 2002 (*Paraphalaenopsis* × *Rhynchostylis*).

×*Paravandopsis* J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1248): 109 (2002). 2002 (*Paraphalaenopsis* × *Vandopsis*).

×*Paravandrum* J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1248): 109 (2002). 2002 (*Ascocentrum* × *Paraphalaenopsis* × *Vanda*).

×*Parisia* J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1248): 109 (2002). 2002 (*Luisia* × *Paraphalaenopsis*).

×*Phalaphalaenopsis* J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1248): 109 (2002). 2002 (*Paraphalaenopsis* × *Phalaenopsis*).

×*Ponterara* J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1248): 109 (2002). 2002 (*Aerides* × *Paraphalaenopsis* × *Rhynchostylis* × *Vanda*).

×*Purverara* J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1248): 109 (2002). 2002 (*Arachnis* × *Ascocentrum* × *Paraphalaenopsis* × *Vanda*).

×*Renanparadopsis* J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1248): 109 (2002). 2002 (*Paraphalaenopsis* × *Renanthera* × *Vandopsis*).

×*Roellkeara* J.M.H.Shaw in *Orchid Rev. Suppl.*, 111(1250): 31 (2003). 2003 (*Aganisia* × *Bollea* × *Zygopetalum*).

×*Rundleara* J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1248): 109 (2002). 2002 (*Paraphalaenopsis* × *Renanthera* × *Rhynchostylis*).

×*Scelodium* J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1248): 109 (2002). 2002 (*Oncidium* × *Scelochilus*).

×*Sceloretia* Staal & J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1248): 109 (2002). 2002 (*Comparetia* × *Scelochilus*).

×*Schweinfurthara* J.M.H.Shaw in *Orchid Rev. Suppl.*,

110(1248): 109 (2002). 2002 (*Brassia* × *Cischweinfia* × *Oncidium* × *Rodriguezia*).

×*Sopharthron* J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1244): 29 (2002). 2002 (*Caularthron* × *Sophronitis*).

×*Sophrotes* J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1244): 29 (2002). 2002 (*Leptotes* × *Sophronitis*).

×*Spiessara* J.M.H.Shaw in *Orchid Rev. Suppl.*, 111(1250): 31 (2003). 2003 (*Arachnis* × *Paraphalaenopsis* × *Renanthera* × *Vandopsis*).

×*Stearnara* J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1248): 109 (2002). 2002 (*Ascocentrum* × *Paraphalaenopsis* × *Renanthera* × *Vanda*).

×*Stonia* J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1244): 29 (2002). 2002 (*Broughtonia* × *Sophronitis*).

×*Valinara* J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1248): 109 (2002). 2002 (*Aerides* ×

× *Ypsilactyle* J.M.H.Shaw in *Orchid Rev. Suppl.*, 110(1248): 109 (2002). 2002 (*Tridactyle* × *Ypsilopus*).

Acampe crassifolia (Lindl. & Paxton) Szlach. in *Ann. Bot. Fenn.* 40(1): 67 (2003). 2003: *Cleisostoma crassifolium*.

Acampe hayatae Szlach. in *Ann. Bot. Fenn.* 40(1): 67 (2003). 2003: *Sarcanthus taiwanianus* Hayata.

Acampe pachyphylla (Ames) Szlach. in *Ann. Bot. Fenn.* 40(1): 68 (2003). 2003: *Sarcanthus pachyphyllus*.

Acampe sect. *Sarcophyton* (Garay) Szlach. in *Ann. Bot. Fenn.* 40(1): 67 (2003). 2003: *Sarcophyton*.

Acianthera fabiobarrosii (Borba & Semir) F.Barros & F.Pinheiro in *Bradea* 8(48): 329 (2002). 2002: *Pleurothallis fabiobarrosii*.

Acianthopsis sublesta (Dockrill) Szlach. in *Richardiana* 3(2): 97 (25 March 2003). 2003: *Acianthus sublestus*.

Anacamptis coriophora subsp. *carpetana* (Willk.) Bernardos in *Belgian J. Bot.* 135(1-2): 82 (2002). 2002: *Orchis coriophora* var. *carpetana*.

Anacamptis coriophora subsp. *martrinii* (Timb.-Lagr.) Jacquet & Scappat. in *Répartit. Orchid. Sauvages France*, 3e éd., 3e mise à jour 7 (2003). 2003: *Orchis martrinii*.

Anacamptis morio subsp. *picta* (Loisel.) Jacquet &

Scappat. in *Répartit. Orchid. Sauvages France*, 3e éd., 3e mise à jour 7 (2003). 2003: *Orchis picta*.

Anathallis imbricata (Barb.Rodr.) F.Barros & F.Pinheiro in *Bradea* 8(48): 329 (2002). 2002: *Pleurothallis imbricata*.

Anoetochilus rhombilabius Ormerod in *Lindleyana* 17(4): 189 (2002). 2002 -Maluku, New Guinea (Papua New Guinea).

Appendicula alatocaulis P.O'Byrne & J.J.Verm. in *Malayan Orchid Rev.* 36: 70, 69 (2002). 2002 - Sulawesi.

Arachnorchis × *variabilis* (Nicholls) Jeanes in *Muelleria* 16: 81 (2002). 2002 *Caladenia variabilis* (*Arachnorchis orientalis* × *Arachnorchis tessellata*).

Arachnorchis serotina (Hopper & A.P.Br.) D.L.Jones & M.A.Clem. in *Orchadian* 14(3): 126 (2003). 2003: *Caladenia serotina*.

Arachnorchis valida (Nicholls) D.L.Jones & M.A.Clem. in *Orchadian* 14(3): 126 (2003). 2003: *Caladenia reticulata* var. *valida*.

Arthrochilus subgen. *Phoringopsis* (D.L.Jones & M.A.Clem.) Szlach. in *Richardiana* 3(2): 97 (25 March 2003). 2003: *Phoringopsis*.

Barbosella portillae Luer in *Monogr. Syst. Bot. Missouri Bot. Gard.* 88: 97 (2002). 2002 -Ecuador.

Barombiella schliebenii (Mansf.) Szlach. in *Ann. Bot. Fenn.* 40(1): 69 (2003). 2003: *Leptocentrum schliebenii*.

Barombiella Szlach. in *Ann. Bot. Fenn.* 40(1): 69 (2003). 2003.

Blumeorchis crochettii (Guillaumin) Szlach. in *Ann. Bot. Fenn.* 40(1): 68 (2003). 2003: *Sarcanthus crochettii*.

Blumeorchis Szlach. in *Ann. Bot. Fenn.* 40(1): 68 (2003). 2003.

Bulbophyllum atosanguineum Aver. in *Updated Checklist Orchids Vietnam* 71 (2003). 2003 -Vietnam.

Bulbophyllum comberipictum J.J.Verm. in *Gard. Bull. Singapore* 54(1): 94 (2002). 2002 -Borneo (Sarawak).

Bulbophyllum deprincatae J.J.Verm. in *Gard. Bull. Singapore* 54(1): 114 (2002). 2002 -Philippines.

Bulbophyllum farinulentum subsp. *densissimum* (Carr)

J.J.Verm. in *Gard. Bull. Singapore* 54(1): 12 (2002). 2002: *Bulbophyllum densissimum*.

Bulbophyllum flabellum-veneris (J.Koenig) Seidenf. & Ormerod ex Aver. in *Updated Checklist Orchids Vietnam* 73 (2003). 2003: *Epidendrum flabellum-veneris*.

Bulbophyllum furcatum Aver. in *Updated Checklist Orchids Vietnam* 73 (2003). 2003 -Vietnam.

Bulbophyllum grotianum J.J.Verm. in *Gard. Bull. Singapore* 54(1): 64 (2002). 2002 -Borneo (Sarawak).

Bulbophyllum janus J.J.Verm. in *Gard. Bull. Singapore* 54(1): 68 (2002). 2002: *Bulbophyllum platyrrhachis* Ridl.

Bulbophyllum lanuginosum J.J.Verm. in *Gard. Bull. Singapore* 54(1): 58 (2002). 2002 -Thailand.

Bulbophyllum ochthodes J.J.Verm. in *Gard. Bull. Singapore* 54(1): 106 (2002). 2002 -Malaya (Peninsular Malaysia).

Bulbophyllum pilosum J.J.Verm. in *Gard. Bull. Singapore* 54(1): 118 (2002). 2002 -Borneo (Sabah).

Bulbophyllum praetervisum J.J.Verm. in *Gard. Bull. Singapore* 54(1): 153 (2002). 2002 -Borneo (Sabah), Borneo (Brunei),.

Bulbophyllum scaphiforme J.J.Verm. in *Gard. Bull. Singapore* 54(1): 84 (2002). 2002 -Thailand.

Bulbophyllum sororculum J.J.Verm. in *Gard. Bull. Singapore* 54(1): 52 (2002). 2002 -Sulawesi.

Bunochilus chlorogrammus (D.L.Jones & M.A.Clem.) D.L.Jones & M.A.Clem. in *Austral. Orchid Res.* 4: 67 (2002). 2002: *Pterostylis chlorogramma*.

Bunochilus D.L.Jones & M.A.Clem. in *Austral. Orchid Res.* 4: 66 (2002). 2002.

Bunochilus longifolius (R.Br.) D.L.Jones & M.A.Clem. in *Austral. Orchid Res.* 4: 66 (2002). 2002: *Pterostylis longifolia*.

Bunochilus melagrammus (D.L.Jones) D.L.Jones & M.A.Clem. in *Austral. Orchid Res.* 4: 66 (2002). 2002: *Pterostylis melagramma*.

Bunochilus smaragdinus (D.L.Jones & M.A.Clem.) D.L.Jones & M.A.Clem. in *Austral. Orchid Res.* 4: 67 (2002). 2002: *Pterostylis smaragdina*.

Bunochilus stenochilus (D.L.Jones) D.L.Jones &

M.A.Clem. in *Austral. Orchid Res.* 4: 67 (2002). 2002: *Pterostylis stenochila*.

Bunochilus tunstallii (D.L.Jones & M.A.Clem.)
D.L.Jones & M.A.Clem. in *Austral. Orchid Res.* 4: 66
(2002). 2002: *Pterostylis tunstallii*.

Bunochilus williamsonii (D.L.Jones) D.L.Jones &
M.A.Clem. in *Austral. Orchid Res.* 4: 66 (2002). 2002:
Pterostylis williamsonii.

Caladenia subgen. *Stegostyla* (D.L.Jones &
M.A.Clem.) Szlach. in *Richardiana* 3(2): 97 (25 March
2003). 2003: *Stegostyla*.

Calonemorchis abbreviata (Hopper & A.P.Br.)
D.L.Jones & M.A.Clem. in *Orchadian* 14(1): 33
(2002). 2002: *Caladenia abbreviata*.

Calonemorchis applanata (Hopper & A.P.Br.) Szlach.
& Rutk. in *Richardiana* 3(2): 93 (25 March 2003).
2003: *Caladenia applanata*.

Calonemorchis arenicola (Hopper & A.P.Br.) Szlach.
& Rutk. in *Richardiana* 3(2): 94 (25 March 2003).
2003: *Caladenia arenicola*.

Calonemorchis arrecta (Hopper & A.P.Br.) Szlach. &
Rutk. in *Richardiana* 3(2): 94 (25 March 2003). 2003:
Caladenia arrecta.

Calonemorchis attingens (Hopper & A.P.Br.) Szlach. &
Rutk. in *Richardiana* 3(2): 94 (25 March 2003). 2003:
Caladenia attingens.

Calonemorchis brevisura (Hopper & A.P.Br.)
D.L.Jones & M.A.Clem. in *Orchadian* 14(1): 34
(2002). 2002: *Caladenia brevisura*.

Calonemorchis brownii (Hopper) Szlach. & Rutk. in
Richardiana 3(2): 94 (25 March 2003). 2003:
Caladenia brownii.

Calonemorchis busselliana (Hopper & A.P.Br.) Szlach.
& Rutk. in *Richardiana* 3(2): 94 (25 March 2003).
2003: *Caladenia busselliana*.

Calonemorchis caesarea subsp. *maritima* (Hopper &
A.P.Br.) D.L.Jones & M.A.Clem. in *Orchadian* 14(1):
34 (2002). 2002: *Caladenia caesarea* subsp. *maritima*.

Calonemorchis caesarea subsp. *transiens* (Hopper &
A.P.Br.) D.L.Jones & M.A.Clem. in *Orchadian* 14(1):
34 (2002). 2002: *Caladenia caesarea* subsp. *transiens*.

Calonemorchis cairnsiana (F.Muell.) D.L.Jones &
M.A.Clem. in *Orchadian* 14(1): 34 (2002). 2002:
Caladenia cairnsiana.

Calonemorchis capillata (D.L.Jones) D.L.Jones &
M.A.Clem. in *Orchadian* 14(1): 34 (2002). 2002:
Caladenia capillata.

Calonemorchis chapmanii (Hopper & A.P.Br.)
D.L.Jones & M.A.Clem. in *Orchadian* 14(1): 34
(2002). 2002: *Caladenia chapmanii*.

Calonemorchis christineae (Hopper & A.P.Br.) Szlach.
& Rutk. in *Richardiana* 3(2): 94 (25 March 2003).
2003: *Caladenia christineae*.

Calonemorchis citrina (Hopper & A.P.Br.) Szlach. &
Rutk. in *Richardiana* 3(2): 94 (25 March 2003). 2003:
Caladenia citrina.

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We are grateful to Ann McNeil, compiler of the Kew Record of Taxonomic Literature, and to Anna Lynch, Mark Nesbitt, and Margaret Ramsay for drawing our attention to the following publications up to 30 June 2003.

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New Books

Pridgeon, A. M., Cribb, P. J., Chase, M. W., and Rasmussen, F. N. 2003. *Genera Orchidacearum. Volume 3. Orchidoideae (Part Two), Vanilloideae*. Oxford University Press, Oxford. ISBN 0-19-850711-9. Pp. 358 + xviii. Price: £99.95.

Volume 3 in this continuing series monographing the world's orchid genera covers the 105 genera of subfamily Orchidoideae not treated in volume 2 and also the 15 genera of subfamily Vanilloideae. Generic accounts include complete nomenclature, description, distribution (with map), anatomy, palynology, cytogenetics, phytochemistry, phylogenetics,

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Book Reviews

Jones, D. L. and Clements, M. A. 2002. *A Review of Pterostylis (Orchidaceae)*. Australian Orchid Research, volume 4. Australian Orchid Foundation, 109 Roberts St., Essendon, Victoria 3040, Australia. Pp. 168, 64 colour photographs, 23 line drawings, one map. Price: AUD 30.

Greenhoods (*Pterostylis*) are among the most distinctive and well-known of Australian ground orchids. Their distribution extends from temperate Australia eastwards to New Zealand and New Caledonia and northwards into Ceram, New Guinea, New Britain, and New Ireland. The first collections were made by Joseph Banks on the *Endeavour* expedition in 1770, and the number of species has steadily increased until the present day when some 166 species are currently recognised. Volume four of the well-produced series published under the title Australian Orchid Research by the Australian Orchid Foundation is devoted to the greenhoods.

The treatment of *Pterostylis* is the work of David Jones and Mark Clements, who have an intimate knowledge of the Australian orchids built on many years of detailed research. They present their work in four parts: a reassessment, a new classification, a synopsis of the subtribe Pterostylidinae, and a checklist and index of names. The first of these covers the morphology, biology, historical classification of the genus, and morphological and molecular analyses of 45 species representing each of the major clades in the genus and three species from outgroups. The morphological analysis are based upon 71 characters and the molecular analyses on the internal transcribed spacer regions of the nuclear genome. The results of each are remarkably congruent, showing two major clades in the molecular analysis and three in the morphological one, each having a number of distinct subclades within it. The combined morphological and molecular analysis produces two major clades, each

including eight subclades. The results of these analyses are convincing and encouraging.

The authors argue that the treatment of similar groups in the orchids has led to the recognition of such clades at generic rank, e.g. in the European Orchidoideae, African Disinae, and slipper orchids. Consequently they recognise 16 genera and two subgenera for the species previously included in *Pterostylis*. Of these five genera, *Eremorchis*, *Petrorchis*, *Pharochilum*, *Ranorchis*, and *Stamnorchis* are monotypic. *Crangonorchis* has two species, *Urochilus* three, *Plumatochilos* four, *Linguella* and *Speculantha* five, *Taurantha* six, *Bunochilus* seven, *Hymenochilus* nine, *Oligochaetochilus* 36, *Diplodium* 38, and *Pterostylis* 46.

I must say that, at this point, I beg to differ with their nomenclatural conclusions. The European orchids are not a good example for comparison, being overworked and certainly containing too many genera. Neither are the slipper orchids, which are distributed in both Old and New Worlds and contain only five genera, all recognised before being subjected to molecular analysis. Surely one of the main points of nomenclature is the stability of names. Retaining well-established generic names was one of the main reasons for a conservative approach to the European orchids at generic level following molecular analyses. *Pterostylis* is, to my mind and to most others, a very distinctive and readily recognised natural genus. I cannot see why the distinct clades identified here cannot be recognised at infrageneric rank, thereby conserving the well-known names in *Pterostylis*. The authors argue that the genera that they recognise have mostly been suggested before. In truth, only *Diplodium* Sw. (1810) has any track record, and that has not been recognised for over 150 years by any authority. Either Szlachetko (2001) or Clements and Jones (2002) described all of the other genera.

I suspect that those interested in Australian terrestrial orchids will continue to use the generic name *Pterostylis* for the greenhoods for many years to come. However, this work by the two acknowledged authorities on the subtribe is undoubtedly to be welcomed as providing a firm scientific basis for the classification of the Pterostylidinae, either as 16 genera or as one genus with 16 sections.

Phillip Cribb

Hagsater, E. and Soto Arenas, M. 2003. *Orchids of Mexico, Parts 2 and 3. Icones Orchidacearum* Fascicles 5 and 6. Instituto Chinoín, A.C., Apartado Postal 53-123, 11320 Mexico D.F., Mexico. Pp. 200, 200 b/w plates, 200 maps.

Thirteen years have passed since the publication of the first part, comprising 100 plates and text, of the *Orchids of Mexico*. In June this year two further parts,

another 200 plates with text, were published. The format is that adopted for many other publications on tropical American orchids, that is, 100 loose leaf sheets per part. Each sheet is devoted to a single species and includes on one side an excellent black-and-white line drawing, including all the necessary diagnostic details. On the other side is a full taxonomic account, including correct name, synonyms, bibliographic references, typification, a detailed description in both English and Spanish, distribution, ecology, recognition (diagnostic characters), conservation status, representative specimens and references. The information on conservation status is new and particularly important when so many species are now threatened in their natural habitats. Useful information on chromosome numbers and floral fragrances are also provided.

Many well-known orchids are included in these two parts as well as many that are new to me. The *Encyclia spatella* complex is covered in some detail, and more or less complete treatments of the Mexican *Acianthera*, *Arpophyllum*, *Dryadella*, and *Rossioglossum* also appear. Several of the newly recognized or recircumscribed segregate genera in Laeliinae such as *Prosthechea*, Pleurothallidinae (*Acianthera*, *Anathallis*, *Kraenzlinella*, and *Stelis*), and Oncidiinae (*Cyrtochiloides*, *Erycina*, *Rhynchostele*, and *Trichocentrum*) are accepted here.

In these two parts, the drawings are particularly fine, mainly the work of Rolando Jimenez Machorro and Marco Lopez Rosas. They are to be particularly commended for the high standards that they have attained.

These volumes are dedicated to the late Ed Greenwood, who did so much to encourage the study of Mexican orchids in the many years he lived in Oaxaca. They are a fitting tribute to a delightful companion and good friend. He would be delighted, I am sure, to have such a fine memorial, and especially pleased with the contribution to it from so many of the younger orchid students that he encouraged and helped over the years.

Phillip Cribb

Luer, C. A. 2003. *Icones Pleurothallidinarum XXV. Systematics of Masdevallia Part Five*. Missouri Botanical Garden. Pp. 244 + 30, 122 black and white plates; 122 distribution maps. ISBN 1-930723-19-9. Price: \$67.50. Complete set of *Masdevallia* (all 5 parts) in *Icones Pleurothallidinarum* available from Missouri Botanical Gardens Press (www.mobot.org) for \$225.00.

The orchid world will surely celebrate the quarter century of publications that form Carl Luer's monumental *Icones Pleurothallidinarum* series. He has, single-handedly, monographed an estimated 15% of the world's orchid flora, a figure that no one else in recent times has even nearly matched.

In this, the fifth and concluding part in a series monographing *Masdevallia*, he includes 108 species in subgenus *Masdevallia* sections *Masdevallia*, *Racemosae* and *Triotosiphon*, and the subgenera *Cucullata*, *Fissa*, *Mealeagris*, *Nidifica*, *Scabripes*, *Teagueia*, and *Volvula*. Keys are provided to each infrageneric group. The species accounts follow the format used in previous treatments with nomenclature, typification, description, collections, and taxonomic notes. A simple but clear distribution map accompanies each species account. His economic line drawings allow them to be used readily as identification guides.

In addition to these treatments, a number of additions, corrections, and amplifications, 14 in all, are made to previous volumes. Twelve new species are described in this volume: *M. milagroii*, *M. segrex*, *M. ametroglossa*, *M. loui*, *M. plynphora*, *M. rechingeriana*, *M. rolandorum*, *M. anomala*, *M. eburnea*, *M. glorieae*, *M. acaroi*, and *M. stigii*.

I can, without hesitation, recommend *Icones Pleurothallidinarum* to readers. If you have not already subscribed, now is the time. Those embarking on an interest in this fascinating subtribe should buy the complete set and bind it before you use it. My green-paper bound volumes of *Icones Pleurothallidinarum* are now showing signs of wear and tear, a reflection of the heavy use to which I have put them. I really should get them bound now rather than later. In that way Carl Luer's seminal account will continue to serve its purpose for many years to come.

Phillip Cribb