

Orchid Research Newsletter No. 47 (January 2006)

Introduction

Alec has kindly asked me to write the editorial for this issue, the last that I will co-edit with him. I retire from Kew in March after 32 years in post, a milestone for me. My tenure at Kew has flown by, and I can honestly say that I have enjoyed it immensely. It has taken me around the world, hunting orchids in places as varied as New Guinea, Madagascar, China, and Peru. I have met some extraordinary people, starting with Eric Holttum who took me under his wing in 1974 when I was green behind the ears, and including most of the world's well-known orchid botanists and growers. Highlights have included seeing such remarkable slipper orchids as *Paphiopedilum rothschildianum*, *P. armeniacum*, and *Cypripedium lentiginosum* in their native habitats, plant-hunting followed by swimming on the coral reefs of the Solomon Islands, hunting bee orchids on Crete, and wandering along the avenue of *Adansonia grandidieri* in Madagascar. I feel at times that it has been a charmed life and a thoroughly stimulating one.

I have just returned from a particularly enjoyable conference in Ecuador that attracted most of the leading Andean orchid specialists. The meeting was packed, and it is always gratifying to see so many students presenting papers. On a pre-conference tour to north-west Ecuador, I saw *Selenipedium aequinoctale* in its type locality and, on a post-conference tour, I had the privilege of inspecting at close quarters *Phragmipedium kovachii* in its home in northern Peru. The only plant we could get close to had a magnificent royal purple flower larger than any reported in cultivation. The experience was enhanced by sightings of cock-of-the-rock and golden-headed quetzals.

Wherever I have been in recent years, whether it is Borneo, Madagascar or Peru, I have been struck by the loss of habitats that even 20 years ago were in pristine shape. Habitat conservation seems to me to be the pressing issue for us all. Without their habitats, orchids cannot survive in the longer term. Initiatives such as those of Orchid Conservation International and the San Diego Orchid Society's 1% for Orchid Conservation trust show that people care, but we need to involve more people and try to give local people living in orchid-rich areas reasons to preserve the forests around them. In the case of *P. kovachii*, the valley where it grows is still prime habitat and would make a superb nature reserve. We were pleasantly surprised to find it surviving on the original cliff where it was discovered in 2001. We found seedlings of the orchid there, one about to flower. If left, it would certainly thrill future eco-tourists who might brave the deep mud and thunderstorms and pay good money to the local guides and landowners to see it.

On my retirement, I do not intend to stop research on orchids. I still have contributions to make to the final two volumes of *Genera Orchidacearum*, the *Flora of China Orchidaceae*, and much else. I will still be contactable at Kew, although not on a daily basis (my wife informs me!).

I would like to finish by thanking readers for their support for ORN over the years and to thank my co-editor who has compiled ORN for the past several years. I hope to see ORN continue as a source of information on orchid science, one of many that can now be accessed over the internet. Good orchid hunting!

Phillip Cribb

News from Correspondents

We invite readers to send us changes of address (e-mail and snail mail), notice of recent publications, recently completed projects, current and future projects, and recent and future field trips for inclusion in this section of the *Orchid Research Newsletter*. Please send all news to Dr. David Roberts at d.roberts@rbgkew.org.uk.

Blanco, Mario (Department of Botany, University of Florida, 220 Bartram Hall, Gainesville, FL 32611-8526, U.S.A.; mblanco@flmnh.ufl.edu) is working on a monograph of the Neotropical genus *Lockhartia* (Oncidiinae) toward his Ph.D., under the direction of Norris Williams (Florida Museum of Natural History). This includes a formal taxonomic treatment, species circumscriptions, morphological and anatomical studies, and phylogenetic analyses using morphological and molecular data. He is willing to identify both herbarium and cultivated material.

Kurzweil, Hubert (new address: Singapore Botanic Gardens, 1 Cluny Road, Singapore 259569; Hubert_KURZWEIL@nparks.gov.sg) has recently completed morphological and taxonomic work on the genus *Disperis* while based at the Compton Herbarium, Cape Town, South Africa. A revision of the Asian taxa of this genus was already published (*Blumea* 50: 143-152; a shortened and popular version also in *Malayan Orchid Review* 38: 78-79, 82-83), and a synopsis of the entire genus with J. Manning as co-author will be published in *Adansonia* in early 2006. Hubert is also contributing material and information to a molecular study of *Disperis* by Kim Steiner (California). For this work they would appreciate receiving any material of tropical *Disperis* species (dried in silica-gel) with proper CITES documentation. Contact Hubert at his new address above for more details.

For various reasons Hubert decided to accept a position in the Singapore Botanic Gardens in December

2005, where he will undertake taxonomic studies in the genus *Calanthe* in collaboration with Phillip Cribb and Dudley Clayton.

Obituaries

Arthur George Alphonso (1921-2005)

George Alphonso trained as a gardener at the Singapore Botanic Gardens during the Directorship of Professor Eric Holttum. After the war, in which he continued to work in the garden, he came to Kew in 1954 on the two-year, international trainee course. During his two years at Kew he developed a love of the gardens and made many lasting friends.

On his return to Singapore, he resumed work at the Gardens as Senior Curator and, not long after the retirement of Professor Humphrey Burkill as Director in 1969, was appointed Acting Director, a post that he held until 1976. He developed the orchid hybridization programme in the gardens and also introduced many novelties. Following his retirement he continued to take an interest in the Gardens but developed a new career as a garden designer, travelling as far afield as Australia and the Philippines, there to advise President and Mrs Marcos. He continued to work with orchids and was a regular lecturer at World Orchid Conferences and other events until the 1990s. He settled eventually in Perth, Australia, where his daughters are resident, but made frequent forays back to Singapore where he remained active in the Orchid Society of South-East Asia for many years. The hybrid orchid genus *Alphonsara* is named in his honour.

George passed away on 27 July 2005 in Perth. He leaves behind four daughters and their families, his wife Margaret having predeceased him.

Phillip Cribb

James (Jim) B. Comber (1929-2005)

Jim Comber, one of the world's leading authorities on Asian orchids and especially those of Indonesia, died suddenly of unknown causes on 7 September 2005. Jim was born in Scotland in 1929 into a famous horticultural family, the eldest son of Harold Comber, the well-known plant collector, and grandson of James Comber, head gardener for the Messel family at Nymans in Sussex. He worked at Sutton & Son of Reading before coming to Kew as a trainee in April 1951. His training at Kew was interrupted by National Service, during which time he was sent to Singapore where his love of south-east Asia and its flora was nourished. He returned to Kew and completed his course in 1955, overlapping as a student with George Alphonso, later Director of the Singapore Botanic Garden and a life-long friend. George sadly predeceased Jim by a month. In 1955 Jim was given

leave by Kew to spend time in Java with Anglo-Indonesian Plantations.

Following graduation, he took up a post with Anglo-Indonesian Plantations at Sapang, near Tenom in Sabah (then British North Borneo). He remained at Sapang through Malaysia independence celebrations but his close association with the plantation workers, many of whom came from Indonesian Kalimantan, aroused the suspicions of the authorities and Jim left Sabah in 1971, moving to a similar posting near Medan in north Sumatra. After three years there, he was appointed to a post in Java working for Ciba-Geigy, the Swiss agro-chemical business. Initially he was based in Jakarta, close to Bogor with its famous botanic garden (Kebun Raya) and herbarium (Herbarium Bogoriense). On his frequent visits to examine herbarium material and to use its library, he made many friends amongst the staff of both institutes, starting and running the Sunday Orchid Club, mainly comprising members of the Herbarium and Gardens staff who joined him on orchid forays on the volcanoes in West Java. From Bogor he was transferred to Surabaya and set up home in Tretes on the slopes of Gunung Arjuno. He hosted many friends, including visiting botanists, at his home in Tretes. His orchid forays continued in East and Central Java, thereby developing a deep first-hand knowledge of the country's rich orchid flora of almost 700 species. Initially, Jim photographed the orchids that he saw and built up a superb and comprehensive collection of images of South-east Asian orchids. His first book, *Wayside Orchids of South-east Asia* was published by Heinemann-Asia, Kuala Lumpur, in 1981. At about the same time, after becoming frustrated at the difficulty of naming the orchids that he had photographed, he began to press specimens so that specialists could provide accurate identifications for him. This proved to be an inspired decision because he built up an extensive herbarium that he was able to consult in his retirement while researching his books on Indonesian orchids.

Jim was transferred by Ciba-Geigy to run their Thai operation in 1984 and continued to document the Javanese and Thai orchid flora in his spare time. In his spare time, he prepared his authoritative and well-illustrated book, *Orchids of Java*, published in 1990 by the Royal Botanic Gardens, Kew. Jim generously funded and oversaw its production. He retired in 1991, shortly after his marriage to Liam, to the UK, settling in Southampton. He was appointed one of Kew's first Honorary Research Associates on his retirement and was a regular visitor to Kew for the next 12 years. During that time he completed his monumental *Orchids of Sumatra* (2001), the first illustrated account of the rich orchid flora of the island. It was also published by Kew in collaboration with Natural History Publications, Kota Kinabalu. The size of this task can be judged by the fact that the flora numbers some 1500 species, as many plants as are found in the whole of the British Isles.

Jim was immensely generous with his photographs, lending them to many botanists, authors and editors who were unable to obtain images of many rare species themselves. I think it is true to say that Jim was the only person to have photographed some of the rarer south-east Asian species and certainly the only person to have photographed many of them in the wild. His photographs and articles have graced the pages of many orchid journals over the years, including the *Orchid Review*, *Orchid Digest*, *Orchids* and the *American Orchid Society Bulletin*, and the *Malayan Orchid Review*. He discovered many new species in his travels, one of which, *Sarcoglyphis comberi* J.J.Wood, is named in his honour.

Jim leaves his wife Liam and children Michael and Sarah. His sister, Mary Comber-Miles, has documented Jim's and his father's plant-hunting travels and hopes to publish the account in the near future.

Phillip Cribb

First Scientific Conference on Andean Orchids A Success

The First Scientific Conference on Andean Orchids, held 11-13 November 2005 in Gualaceo, Ecuador, was a tremendous success according to all 24 speakers and approximately 150 registrants from all continents except Africa and Antarctica (regrettably but perhaps understandably, no penguins signed up). One tired registrant from Indonesia held the unenviable honor of having the longest journey and probably the world's worst travel agent; it took him 60 hours to travel from Jakarta to Gualaceo!

Organized by José 'Pepe' Portilla and Alec Pridgeon with superb logistical help from Becky Unruh and the entire Ecuagenera family, the first Conference was a milestone in our current knowledge of thousands of orchid species in the Andes. In this vast laboratory of evolution, spanning some 5500 miles from Venezuela to Chile, the rich floristic diversity is a study in rapid speciation and adaptive radiation. Species richness of Orchidaceae in particular reaches its zenith here, greater than probably anywhere else on earth. Hundreds of new species have been described in recent years, particularly in Pleurothallidinae thanks to the indefatigable Carlyle Luer. Therein lies the primary reason for commencing a series of conferences on Andean orchids: to convene experts to document and try to explain such extraordinary species richness as well as to gather data that can be used for its protection and preservation in the face of worldwide habitat destruction and climatic changes. Yet another reason is to help train students from all the Americas in theoretical and applied techniques and share current knowledge about orchid biology so that they can train others in their own countries.

Speakers from the United States included Ken Cameron (NYBG) and his former Ph.D. student Aída

Alvarez (Herbario Nacional del Ecuador), Franco Pupulin and Robert L. Dressler (Lankester Gardens, Costa Rica), Stig Dalström (Marie Selby Botanical Gardens), Mark Whitten, Norris Williams and four of his Ph.D. students from the Florida Museum of Natural History at the University of Florida, and Daniel Fulop from Harvard University. Günter Gerlach came from Germany to speak on pollination biology and phylogeny of Stanhopeinae. Juan Felipe Posada of Colomborquideas in Medellín gave a visually stunning presentation on orchid species in Colombia, and Alfredo Manrique from Peru left nothing out in discussing the ecology, hybridization, and cultivation of *Phragmipedium kovachii*. Besides Aída Alvarez, the speakers from Ecuador included Alex Hirtz, Lou Jost, Lorena Endara (Herbario QCA and a student of Norris Williams), and Pepe Portilla, Gilberto Merino, and Carlos Vásquez from Ecuagenera. Henry Oakeley flew in from United Kingdom to speak on *Lycaste* and *Ida*, and Phillip Cribb of the Royal Botanic Gardens, Kew, spoke on the historical orchid collections and illustrations housed there as well as the controversial topic of how many orchid species there are. Cassio van den Berg from Universidade Estadual de Feira de Santana in Bahia, Brazil, delivered a phylogenetic overview of the Epidendroideae based on DNA sequences. Alec Pridgeon from Kew rounded out the roster of 24.

Proceedings of the Conference will soon be available in a different format than the customary book that costs well over \$100 and takes over a year to produce. A set of DVDs will feature recordings of all lectures (a boon to program chairpersons of local orchid societies) and CDs with the authors' PowerPoint presentations and list of references. There will be some extras, too: photos of social events, orchids, and people. Even if you were unable to attend this groundbreaking event, the DVDs will put you in the front row to see and hear some of the best-known orchid scientists. The price and date of availability have not yet been determined, but watch the pages of *Orchids* and the Ecuagenera website (www.ecuagenera.com) for more news.

The second Conference in the series is being planned for November in 2007 at the Universidad Técnica Particular de Loja (UTPL) in Loja, Ecuador. Its modern convention hall, with several salons seating a total of 900 persons, has hosted international conferences on biodiversity of the Andes and Amazonia and also national conferences associated with tourism and education. We hope to see you all there in 2007 and share the beauty of the Andes, especially its orchids and people.

Alec Pridgeon

Recent Orchid Nomenclature

We thank Rosemary Davies for supplying new orchid names received by *Index Kewensis* from 1 June to 1 December 2005.

Orchidaceae subtrib. Dactylorhizinae Verm. ex Quentin in *Cah. Soc. Franç. Orchidophilie* 1: 13. 1993 [10 Dec 1993].

Orchidaceae subtrib. Ophrydinae Verm. ex Quentin in *Cah. Soc. Franç. Orchidophilie* 1: 13. 1993 [10 Dec 1993], nom. nov.: Orchidaceae trib. Ophrydeae Lindl. *Orchid. Scelet.* 7, 12. 1826 [May 1826].

Orchidaceae trib. Xerorchideae P.J.Cribb in *Kew Bull.* 60(1): 143 (-144). 2005 [July 2005].

Acianthera fabiobarrosii (Borba & Semir) Borba in *Sitientibus Sér. Ci. Biol.* 3(1-2): 23. 2003 [Dec 2003]; *Pleurothallis fabiobarrosii*.

Acianthera ochreatea (Lindl.) Pridgeon & M.W.Chase subsp. *cylindrifolia* (Borba & Semir) Borba in *Sitientibus Sér. Ci. Biol.* 3(1-2): 23. 2003 [Dec 2003]; *Pleurothallis ochreatea* subsp. *cylindrifolia*.

Acianthera teres (Lindl.) Borba in *Sitientibus Sér. Ci. Biol.* 3(1-2): 23. 2003 [Dec 2003]; *Pleurothallis teres*.

×*Aciopea* Gav.-Correa in *Orchid Rev. Suppl.*, 113(1262): 21. 2005 [Quart. Suppl. Int. Reg. Orchid Hybrids] (*Acineta* Lindl. × *Stanhopea* Frost ex Hook.).

Aerangis brachycarpa (A.Rich.) Durand & Schinz, *Consp. Fl. Afr.* 5:50. 1894; *Dendrobium brachycarpum*.

Aerantes virginalis D.L.Roberts in *Kew Bull.* 60(1): 139 (-141; fig. 1). 2005 [July 2005] -Comoros (Western Indian Ocean, Africa).

Aetheorhyncha Dressler in *Lankesteriana* 5(2): 94. 2005 [Aug 2005].

Aetheorhyncha andreettae (Jenny) Dressler in *Lankesteriana* 5(2): 95. 2005 [Aug 2005]; *Chondrorhyncha andreettae*.

×*Anabarlia* J.M.H.Shaw in *Orchid Rev. Suppl.*, 113(1265): 23. 2005 [Quart. Suppl. Int. Reg. Orchid Hybrids] (*Barlia* Parl. × *Anacamptis* Rich.).

Anacamptis pyramidalis (L.) Rich. var. *tanayensis* Chenevard in *Bull. Soc. Bot. Genève* 8: 73. 1897.

Anacamptis pyramidalis (L.) Rich. subsp. *tanayensis* (Chenevard) Quentin in *Cah. Soc. Franç. Orchidophilie* 1: 33. 1993 [10 Dec 1993]; *Anacamptis pyramidalis* var. *tanayensis*.

Anacheilium borsianum Campacci in *Bol. CAOB* 56: 124 (-127; fig.; photogrs.; map). 2005 [dt. Oct-Dec

2004; issued on 15 Jan 2005] -Goiás (Brazil West-Central, Brazil, Southern America).
×*Anagymnorhiza* J.M.H.Shaw in *Orchid Rev. Suppl.*, 113(1265): 23. 2005 [Quart. Suppl. Int. Reg. Orchid Hybrids] (*Anacamptis* Rich. × *Dactylorhiza* Necker ex Nevski × *Gymnadenia* R.Br.).

Anathallis microphyta (Barb.Rodr.) C.O.Azevedo & Van den Berg in *Kew Bull.* 60(1): 137. 2005 [July 2005]; *Lepanthes microphyta*.

Anoectochilus dewildeorum Ormerod in *Taiwania* 50(1): 2 (-3; fig. 1). 2005 [Mar 2005] -Sumatera (Malesia, Asia-Tropical).

Anoectochilus falconis Ormerod in *Taiwania* 50(1): 3 (-4; fig. 2). 2005 [Mar 2005] -Peninsular Malaysia (Malaya, Malesia, Asia-Tropical).

Arachnorchis ×*aestantha* (Hopper & A.P.Br.) D.L.Jones & M.A.Clem. in *Orchadian* 15(1): 34. 2005 [Sep 2005]; *Caladenia* ×*aestantha*.

Arachnorchis ×*cala* (Hopper & A.P.Br.) D.L.Jones & M.A.Clem. in *Orchadian* 15(1): 34. 2005 [Sep 2005]; *Caladenia* ×*cala*.

Arachnorchis ×*coactescens* (Hopper & A.P.Br.) D.L.Jones & M.A.Clem. in *Orchadian* 15(1): 34. 2005 [Sep 2005]; *Caladenia* ×*coactescens*.

Arachnorchis ×*exserta* (Hopper & A.P.Br.) D.L.Jones & M.A.Clem. in *Orchadian* 15(1): 34. 2005 [Sep 2005]; *Caladenia* ×*exserta*.

Arachnorchis graniticola (Hopper & A.P.Br.) D.L.Jones & M.A.Clem. in *Orchadian* 15(1): 34. 2005 [Sep 2005]; *Caladenia hoffmanii* subsp. *graniticola*.

Arachnorchis ×*hypata* (Hopper & A.P.Br.) D.L.Jones & M.A.Clem. in *Orchadian* 15(1): 34. 2005 [Sep 2005]; *Caladenia* ×*hypata*.

Arachnorchis intuta D.L.Jones in *Orchadian* 14(12): 561 (560-562; photos). 2005 [Jun 2005] -South Australia.

Arachnorchis ×*suffusa* (Hopper & A.P.Br.) D.L.Jones & M.A.Clem. in *Orchadian* 15(1): 34. 2005 [Sep 2005]; *Caladenia* ×*suffusa*.

Aspidogyne gigantea (Dodson) Ormerod in *Taiwania* 50(1): 5. 2005 [Mar 2005]; *Erythrodes gigantea*.

Aspidogyne vesiculosa Ormerod in *Harvard Pap. Bot.* 9(2): 392 (fig. 1). 2005 [May 2005] -Táchira (Venezuela).

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

113(1264): 17. 2005 [Quart. Suppl. Int. Reg. Orchid Hybrids] (*Gomesa* R.Br. × *Aspasia* Lindl.).
Ate elwesii (Hook.f.) Szlach. in *Orchidee (Hamburg)* 56(3): 329. 2005 [Aug 2005]: *Habenaria elwesii*.

Benzingia caudata (Ackerman) Dressler in *Lankesteriana* 5(2): 93. 2005 [Aug 2005]: *Chondrorhyncha caudata*.

Benzingia cornuta (Garay) Dressler in *Lankesteriana* 5(2): 93. 2005 [Aug 2005]: *Chondrorhyncha cornuta*.

Benzingia hajekii (D.E.Benn. & Christenson) Dressler in *Lankesteriana* 5(2): 93. 2005 [Aug 2005]: *Ackermania hajekii*.

Benzingia jarae (D.E.Benn. & Christenson) Dressler in *Lankesteriana* 5(2): 93. 2005 [Aug 2005]: *Ackermania jarae*.

Benzingia palorae (Dodson & Hirtz) Dressler in *Lankesteriana* 5(2): 93. 2005 [Aug 2005]: *Stenia palorae*.

Benzingia reichenbachiana (Schltr.) Dressler in *Lankesteriana* 5(2): 93. 2005 [Aug 2005]: *Chondrorhyncha reichenbachiana*.

Binotia messmeriana Campacci in *Bol. CAOB* 57: 24 (-27; fig.; photogrs.; map). 2005 [10 Apr 2005] -Rio de Janeiro (Brazil Southeast).

Brassia suavissima Pupulin & Bogarín in *Orchids* 74(3): 206 (-207; figs. 7-8). 2005 [24 Feb 2005] -Costa Rica (Central America).

Bryobium diphyllum (Schltr.) J.J.Wood in *Orchid Rev.* 113(1261): 41. 2005 [Jan-Feb 2005]: *Eria diphylla*.

Bryobium hyacinthoides (Blume) Y.P.Ng & P.J.Cribb in *Orchid Rev.* 113(1265): 272. 2005: *Dendrolirium hyacinthoides*.

Bryobium indivisum (Schltr.) J.J.Wood in *Orchid Rev.* 113(1261): 41. 2005 [Jan-Feb 2005]: *Eria indivisa*.

Bryobium intermedium (Dockrill) D.L.Jones & M.A.Clem. in *Orchadian* 15(1): 41. 2005 [Sep 2005]: *Eria intermedia*.

Bryobium pudicum (Ridl.) Y.P.Ng & P.J.Cribb in *Orchid Rev.* 113(1265): 272. 2005: *Eria pudica*.

Bryobium rendovaense J.J.Wood in *Orchid Rev.* 113(1261): 41 (39-41; fig.). 2005 [Jan-Feb 2005] as "rendovaensis" -South Solomons (Solomon Is., Papuasia, Asia-Tropical).

Bryobium retusum (Blume) Y.P.Ng & P.J.Cribb in

Orchid Rev. 113(1265): 272. 2005: *Dendrolirium retusum*.

Bulbophyllum aundense Ormerod in *Orchadian* 14(12): 563. 2005 [Jun 2005], nom. nov.: *Bulbophyllum barbatum* P.Royen, *Alp. Fl. New Guinea*, 2: 211 (1979).

Bulbophyllum erythrostictum Ormerod in *Orchadian* 14(12): 563. 2005 [Jun 2005], nom. nov.: *Bulbophyllum polystictum* Schltr. in *Fedde, Repert. Beih.* i. 838 (1913).

Bulbophyllum pyroglossum Schuit. & de Vogel in *J. Orchideenfr.* 12(3): 264 (-270; figs.). 2005 [15 Aug 2005] -Papua New Guinea (New Guinea, Papuasia, Asia-Tropical).

Bulbophyllum wuzhishanense X.H.Jin in *Brittonia* 57(3): 255 (-257; fig. 1). 2005 [29 Sep 2005] as "wuzhishanensis" -Hainan (China, Asia-Temperate).

Callostylis cyrtosepala (Schltr.) Y.P.Ng & P.J.Cribb in *Orchid Rev.* 113(1265): 272. 2005: *Eria cyrtosepala*.

Campanulorchis leiophylla (Lindl.) Y.P.Ng & P.J.Cribb in *Orchid Rev.* 113(1265): 272. 2005: *Eria leiophylla*.

Campanulorchis pellipes (Rchb.f. ex Hook.f.) Y.P.Ng & P.J.Cribb in *Orchid Rev.* 113(1265): 272. 2005: *Eria pellipes*.

Carria V.P.Castro & K.G.Lacerda in *Orchids* 74(9): 694. 2005 [17 Aug 2005], nom. illeg. later homonym.

Carria colorata (Königer & J.G.Weinm.bis) V.P.Castro & K.G.Lacerda in *Orchids* 74(9): 694. 2005 [17 Aug 2005]: *Oncidium coloratum*.

Catasetum × *dasilvae* K.G.Lacerda & V.P.Castro in *Orchid Rev.* 113(1266): 310 (-311; figs.). 2005 [Nov 2005], (collector's number is the same as that for *Catasetum* × *perazolianum* K.G.Lacerda & V.P.Castro) - Rondônia (Brazil North, Brazil, Southern America) (*Catasetum denticulatum* F.E.Miranda × *Catasetum tigrinum* Rchb.f.).

Catasetum × *perazolianum* K.G.Lacerda & V.P.Castro in *Orchid Rev.* 113(1266): 308 (-310; figs.). 2005 [Nov 2005] (collector's number is the same as that for *Catasetum* × *dasilvae* K.G.Lacerda & V.P.Castro) - Rondônia (Brazil North, Brazil, Southern America) (*Catasetum ariquemense* F.E.L.Miranda & K.G.Lacerda × *Catasetum denticulatum* F.E.Miranda).

Cestichis sect. *Blepharoglossum* (Schltr.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 40. 2005 [Sep 2005]: *Liparis* sect. *Blepharoglossum*.

Cestichis aaronii (P.J.Cribb & B.A.Lewis) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 38. 2005 [Sep 2005]: *Liparis aaronii*.

Cestichis acaulis (Schltr.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 38. 2005 [Sep 2005]: *Liparis acaulis*.

Cestichis alpina (P.Royen) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 38. 2005 [Sep 2005]: *Liparis alpina*.

Cestichis altigena (Schltr.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 38. 2005 [Sep 2005]: *Liparis altigena*.

Cestichis angustilabris (F.Muell.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 38. 2005 [Sep 2005]: *Sturmia angustilabris*.

Cestichis arachnites (Schltr.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 38. 2005 [Sep 2005]: *Liparis arachnites*.

Cestichis brachystele (Ridl.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 38. 2005 [Sep 2005]: *Liparis brachystele*.

Cestichis bracteata (T.E.Hunt) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 38. 2005 [Sep 2005]: *Liparis bracteata*.

Cestichis brevicaulis (Schltr.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 38. 2005 [Sep 2005]: *Liparis brevicaulis*.

Cestichis calcarea (Schltr.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 38. 2005 [Sep 2005]: *Liparis calcarea*.

Cestichis caricifolia (Schltr.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 38. 2005 [Sep 2005]: *Liparis caricifolia*.

Cestichis chlorantha (Schltr.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 39. 2005 [Sep 2005]: *Liparis chlorantha*.

Cestichis cinnabarina (J.J.Sm.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 39. 2005 [Sep 2005]: *Liparis cinnabarina*.

Cestichis coelogynoides (F.Muell.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 38. 2005 [Sep 2005]: *Sturmia coelogynoides*.

Cestichis condylobulbon (Rchb.f.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 40. 2005 [Sep 2005]: *Liparis condylobulbon*.

Cestichis congesta (Ridl.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 39. 2005 [Sep 2005]: *Liparis congesta*.

Cestichis cymbidiifolia (J.J.Sm.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 39. 2005 [Sep 2005]: *Liparis cymbidiifolia*.

Cestichis cyperifolia (Ridl.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 39. 2005 [Sep 2005]: *Liparis cyperifolia*.

Cestichis dolichobulbos (Schltr.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 39. 2005 [Sep 2005] as "dolichobulba": *Liparis dolichobulbos*.

Cestichis elegans (Lindl.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 39 (40). 2005 [Sep 2005], combination published twice: *Liparis elegans*.

Cestichis elliptica (Wight) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 39. 2005 [Sep 2005]: *Liparis elliptica*.

Cestichis exilis (J.J.Sm.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 39. 2005 [Sep 2005]: *Liparis exilis*.

Cestichis flabellata (J.J.Sm.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 39. 2005 [Sep 2005]: *Liparis flabellata*.

Cestichis fleckeri (Nicholls) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 38. 2005 [Sep 2005]: *Liparis fleckeri*.

Cestichis genychila (Schltr.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 39. 2005 [Sep 2005]: *Liparis genychila*.

Cestichis gibbsiae (J.J.Sm.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 39. 2005 [Sep 2005]: *Liparis gibbsiae*.

Cestichis imperatifolia (Schltr.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 39. 2005 [Sep 2005]: *Liparis imperatifolia*.

Cestichis indifferens (J.J.Sm.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 40. 2005 [Sep 2005]: *Liparis indifferens*.

Cestichis insectifera (Ridl.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 40. 2005 [Sep 2005]: *Liparis insectifera*.

Cestichis kempfi (Schltr.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 39. 2005 [Sep 2005]: *Liparis kempfi*.

Cestichis kempteriana (Schltr.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 39. 2005 [Sep 2005]: *Liparis kempteriana*.

Cestichis latibasis (J.J.Sm.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 39. 2005 [Sep 2005]: *Liparis latibasis*.

Cestichis latifolia (Blume) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 40. 2005 [Sep 2005], nom. illeg. later homonym: *Malaxis latifolia*.

Cestichis leptopus (Schltr.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 39. 2005 [Sep 2005]: *Liparis leptopus*.

Cestichis major (Schltr.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 39. 2005 [Sep 2005]: *Liparis major*.

Cestichis mapaniifolia (Schltr.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 39. 2005 [Sep 2005]: *Liparis mapaniifolia*.

Cestichis merapiensis (Schltr.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 40. 2005 [Sep 2005]: *Liparis merapiensis*.

Cestichis microblepharon (Schltr.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 40. 2005 [Sep 2005]: *Liparis microblepharon*.

Cestichis nugentiae (F.M.Bailey) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 38. 2005 [Sep 2005]: *Liparis nugentiae*.

Cestichis orbiculata (L.O.Williams) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 40. 2005 [Sep 2005]: *Liparis orbiculata*.

Cestichis ovalis (Schltr.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 39. 2005 [Sep 2005]: *Liparis ovalis*.

Cestichis parviflora (Blume) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 40. 2005 [Sep 2005]: *Malaxis parviflora*.

Cestichis pedicellaris (Schltr.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 39. 2005 [Sep 2005]: *Liparis pedicellaris*.

Cestichis persimilis (Schltr.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 40. 2005 [Sep 2005]: *Liparis persimilis*.

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Cestichis pullei (J.J.Sm.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 39. 2005 [Sep 2005]: *Liparis pullei*.

Cestichis reflexa (R.Br.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 38. 2005 [Sep 2005]: *Cymbidium reflexum*.

Cestichis schistochila (Schltr.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 39. 2005 [Sep 2005]: *Liparis schistochila*.

Cestichis scleriifolia (Schltr.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 39. 2005 [Sep 2005]: *Liparis scleriifolia*.

Cestichis serrulata (Schltr.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 40. 2005 [Sep 2005]: *Liparis serrulata*.

Cestichis similis (Schltr.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 39 (-40). 2005 [Sep 2005]: *Liparis similis*.

Cestichis spectabilis (Schltr.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 40. 2005 [Sep 2005]: *Liparis spectabilis*.

Cestichis stenostachya (Schltr.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 40. 2005 [Sep 2005]: *Liparis stenostachya*.

Cestichis swenssonii (F.M.Bailey) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 38. 2005 [Sep 2005]: *Liparis swenssonii*.

Cestichis sympodialis (Schltr.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 40. 2005 [Sep 2005]: *Liparis sympodialis*.

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Cestichis truncicola (Schltr.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 40. 2005 [Sep 2005]: *Liparis truncicola*.

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×*Dactylanthera* P.F.Hunt & Summerh. in Willis, *Dict. Fl. Pl.*, ed. 7 327. 1966 (*Dactylorhiza* Necker ex Nevski × *Platanthera* Rich.).

×*Dactylanthera chevallieriana* (E.G.Camus) J.M.H.Shaw in *Orchid Rev.* 113(1265): 266. 2005, as "chevallieriana": *Orchis* × *chevallieriana*.

×*Dactylanthera chevallieriana* (E.G.Camus) J.M.H.Shaw nothosubsp. *somersetensis* (A.Camus) J.M.H.Shaw in *Orchid Rev.* 113(1265): 267. 2005: ×*Orchiplatanthera somersetensis*.

×*Dactylanthera fournieri* (E.Royer) J.M.H.Shaw in *Orchid Rev.* 113(1265): 267. 2005: *Orchis fournieri*.

×*Dactylanthera intermedia* (Bernacki) J.M.H.Shaw in *Orchid Rev.* 113(1265): 267. 2005, nom. inval. basionym not validly published: ×*Rhizantha intermedia*.

×*Dactylanthera martysiensis* (Balayer) J.M.H.Shaw in *Orchid Rev.* 113(1265): 267. 2005, nom. inval. basionym not validly published: ×*Rhizantha martysiensis*.

Dactylorhiza × *aschersoniana* (Hauskn.) Borsos & Soó nothosubsp. *templinensis* (Potůček) H.Kretzschmar in H.Baumann, *Orchideen Deutschlands* 696. 2005 [30 Jan 2005]: *Dactylorhiza* × *templinensis*.

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Daiotyia Dressler in *Lankesteriana* 5(2): 92. 2005 [Aug 2005].

Daiotyia albicans (Rolfe) Dressler in *Lankesteriana* 5(2): 92. 2005 [Aug 2005]: *Chondrorhyncha albicans*.

Daiotyia crassa (Dressler) Dressler in *Lankesteriana* 5(2): 92. 2005 [Aug 2005]: *Chondrorhyncha crassa*.

Daiotyia maculata (Garay) Dressler in *Lankesteriana* 5(2): 92. 2005 [Aug 2005]: *Chondrorhyncha maculata*.

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Dendrochilum croceum H.A.Pedersen in *Orchid Rev.* 113(1265): 286 (-287; fig.). 2005 -Philippines (Malesia, Asia-Tropical).

Diteilis elata (Lindl.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 40. 2005 [Sep 2005]: *Liparis elata*.

Diteilis formosana (Rchb.f.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 40. 2005 [Sep 2005]: *Liparis formosana*.

Diteilis layardii (F.Muell.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 40. 2005 [Sep 2005]: *Liparis layardii*.

Diteilis nervosa (Thunb.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 40. 2005 [Sep 2005]: *Ophrys nervosa*.

Diteilis nigra (Seidenf.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 41. 2005 [Sep 2005]: *Liparis nigra*.

Diteilis prianganensis (J.J.Sm.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 41. 2005 [Sep 2005]: *Liparis prianganensis*.

Diteilis rheedii M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 41. 2005 [Sep 2005] nom. nov., published as comb. nov. but based on nom. illeg.: *Malaxis rheedii* Blume, *Bijdr. Fl. Ned. Ind.* 389. 1825.

Diteilis sootenzanensis (Fukuy.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 41. 2005 [Sep 2005]: *Liparis sootenzanensis*.

Diteilis walkeriae (Graham) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 41. 2005 [Sep 2005]: *Liparis walkeriae*.

Diteilis wightiana (Thwaites) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 41. 2005 [Sep 2005]: *Liparis wightiana*.

Diteilis wrayi (Hook.f.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 41. 2005 [Sep 2005]: *Liparis wrayi*.

Dockrillia chordiformis (Kraenzl.) Ormerod in *Orchadian* 14(12): 564. 2005 [Jun 2005]: *Dendrobium chordiforme*.

Echinorhyncha Dressler in *Lankesteriana* 5(2): 94. 2005 [Aug 2005].

Echinorhyncha antonii (P.Ortiz) Dressler in *Lankesteriana* 5(2): 94. 2005 [Aug 2005]: *Chondrorhyncha antonii*.

Echinorhyncha ecuadorensis (Dodson) Dressler in *Lankesteriana* 5(2): 94. 2005 [Aug 2005]: *Chondrorhyncha ecuadorensis*.

Echinorhyncha litensis (Dodson) Dressler in *Lankesteriana* 5(2): 94. 2005 [Aug 2005]: *Chondrorhyncha litensis*.

Echinorhyncha vollesii (G.Gerlach, Neudecker & Seeger) Dressler in *Lankesteriana* 5(2): 94. 2005 [Aug 2005]: *Chondrorhyncha vollesii*.

Empusa disepala (Rchb.f.) M.A.Clem. & D.L.Jones in *Orchadian* 15(1): 41. 2005 [Sep 2005]: *Liparis disepala*.

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- Epidendrum parviexasperatum* (Hágsater) Hágsater in *Lankesteriana* 5(1): 74. 2005 [30 Apr 2005]: *Oerstedella parviexasperata*.
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- Euryblema andreae* (P.Ortiz) Dressler in *Lankesteriana* 5(2): 94. 2005 [Aug 2005]: *Chondrorhyncha andreae*.
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- ×*Hagsavola* J.M.H.Shaw in *Orchid Rev. Suppl.*, 113(1264): 18. 2005 [Quart. Suppl. Int. Reg. Orchid Hybrids] (*Hagsatera* R.González × *Brassavola* R.Br.).
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Imerinorchis brachyceras (Schltr.) Szlach. in *Orchidee (Hamburg)* 56(1): 69. 2005 [15 Apr 2005]: *Cynorkis brachyceras*.

Imerinorchis ericophila (H.Perrier) Szlach. in *Orchidee (Hamburg)* 56(1): 69. 2005 [15 Apr 2005]: *Cynorkis ericophila*.

Imerinorchis galeata (Rchb.f.) Szlach. in *Orchidee (Hamburg)* 56(1): 69. 2005 [15 Apr 2005]: *Cynorkis galeata*.

Imerinorchis gracilis (Lindl.) Szlach. in *Orchidee (Hamburg)* 56(1): 69. 2005 [15 Apr 2005]: *Bicornella gracilis*.

Imerinorchis hologlossa (Schltr.) Szlach. in *Orchidee (Hamburg)* 56(1): 69. 2005 [15 Apr 2005]: *Cynorkis hologlossa*.

Imerinorchis imerinensis (Ridl.) Szlach. in *Orchidee (Hamburg)* 56(1): 69. 2005 [15 Apr 2005]: *Habenaria imerinensis*.

Imerinorchis lancilabia (Schltr.) Szlach. in *Orchidee (Hamburg)* 56(1): 69. 2005 [15 Apr 2005]: *Cynorkis lancilabia*.

Imerinorchis nutans (Ridl.) Szlach. in *Orchidee (Hamburg)* 56(1): 69. 2005 [15 Apr 2005]: *Habenaria nutans*.

Imerinorchis purpurea (Thouars) Szlach. in *Orchidee (Hamburg)* 56(1): 69. 2005 [15 Apr 2005]: *Habenaria purpurea*.

Imerinorchis stenoglossa (Kraenzl.) Szlach. in *Orchidee (Hamburg)* 56(1): 69. 2005 [15 Apr 2005]: *Cynorkis stenoglossa*.

Imerinorchis tenuicalcar (Schltr.) Szlach. in *Orchidee (Hamburg)* 56(1): 69. 2005 [15 Apr 2005]: *Cynorkis tenuicalcar*.

Imerinorchis zaratananae (Schltr.) Szlach. in *Orchidee (Hamburg)* 56(1): 69. 2005 [15 Apr 2005]: *Cynorkis zaratananae*.

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Jonesiopsis ×*exoleta* (Hopper & A.P.Br.) D.L.Jones & M.A.Clem. in *Orchadian* 15(1): 36. 2005 [Sep 2005]: *Caladenia* ×*exoleta*.

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Jonesiopsis ×*tryphera* (Hopper & A.P.Br.) D.L.Jones & M.A.Clem. in *Orchadian* 15(1): 36. 2005 [Sep 2005]: *Caladenia* ×*tryphera*.

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Kreodanthus myrmex Ormerod in *Harvard Pap. Bot.* 9(2): 394 (fig. 3). 2005 [May 2005] -Colombia.

Kreodanthus rotundifolius Ormerod in *Harvard Pap. Bot.* 9(2): 394 (-395; fig. 4). 2005 [May 2005] - Amazonas (Peru).

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Microchilus brunnescens Ormerod in *Harvard Pap. Bot.* 9(2): 399 (fig.7). 2005 [May 2005] -Napo (Ecuador).

Microchilus campanulatus Ormerod in *Harvard Pap. Bot.* 9(2): 400 (fig. 8). 2005 [May 2005] -Bolívar (Venezuela).

Microchilus capitatus Ormerod in *Harvard Pap. Bot.* 9(2): 400 (402; fig. 9). 2005 [May 2005] -Urubamba (Cuzco, Peru).

Microchilus constrictus Ormerod in *Harvard Pap. Bot.* 9(2): 402 (fig. 10). 2005 [May 2005] -Amazonas (Brazil).

Microchilus curviflorus Ormerod in *Harvard Pap. Bot.* 9(2): 402 (-403; fig. 11). 2005 [May 2005] -Yaracuy (Venezuela).

Microchilus curviflorus Ormerod var. *azulitae* Ormerod in *Harvard Pap. Bot.* 9(2): 403 (fig. 12). 2005 [May 2005] -Mérida (Venezuela).

Microchilus ensicalcar Ormerod in *Harvard Pap. Bot.* 9(2): 403 (405; fig. 13). 2005 [May 2005] -Quispicanchi (Cuzco, Peru).

Microchilus fendleri Ormerod in *Harvard Pap. Bot.* 9(2): 405 (fig. 14). 2005 [May 2005] -Miranda (Venezuela).

Microchilus fosbergii Ormerod in *Harvard Pap. Bot.* 9(2): 405 (-406; fig. 15). 2005 [May 2005] -Huila (Colombia).

Microchilus glanduliferus Ormerod in *Harvard Pap. Bot.* 9(2): 406 (fig. 16). 2005 [May 2005] -Venezuela.

Microchilus globosus Ormerod in *Harvard Pap. Bot.* 9(2): 406 (408; fig. 17). 2005 [May 2005] -Santander (Colombia).

Microchilus haughtii Ormerod in *Harvard Pap. Bot.* 9(2): 408 (fig. 18). 2005 [May 2005] -Colombia.

Microchilus hughjonesii Ormerod in *Harvard Pap. Bot.* 9(2): 408 (-409; fig. 19). 2005 [May 2005] -Valle del Cauca (Colombia).

Microchilus integrus Ormerod in *Harvard Pap. Bot.* 9(2): 409 (fig. 20). 2005 [May 2005] -Esmeraldas (Ecuador).

Microchilus kuduyariensis Ormerod in *Harvard Pap. Bot.* 9(2): 409 (fig. 21). 2005 [May 2005] -Colombia.

Microchilus lechleri Ormerod in *Harvard Pap. Bot.* 9(2): 409 (411; fig. 22). 2005 [May 2005] -Peru.

Microchilus madrinanii Ormerod in *Harvard Pap. Bot.* 9(2): 411 (fig. 23). 2005 [May 2005] -Magdalena (Colombia).

Microchilus micayvallis Ormerod in *Harvard Pap. Bot.* 9(2): 411 (-412; fig. 24). 2005 [May 2005] -Cauca (Colombia).

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- Microchilus panamanicus* Ormerod in *Harvard Pap. Bot.* 9(2): 414 (fig. 28). 2005 [May 2005] -Panama (Central America).
- Microchilus pedrojuanensis* Ormerod in *Harvard Pap. Bot.* 9(2): 414 (416; fig. 29). 2005 [May 2005] -Paraguay.
- Microchilus peytonorum* Ormerod in *Harvard Pap. Bot.* 9(2): 416 (fig. 30). 2005 [May 2005] -Cuzco (Peru).
- Microchilus platysepalus* Ormerod in *Harvard Pap. Bot.* 9(2): 416 (-417; fig. 31). 2005 [May 2005] -Santander (Colombia).
- Microchilus plowmanii* Ormerod in *Harvard Pap. Bot.* 9(2): 417 (fig. 32). 2005 [May 2005] -Huánuco (Peru).
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×*Serapicamptis bevilacqua* (Penz.) J.M.H.Shaw in *Orchid Rev. Suppl.*, 113(1264): 20. 2005 [Quart. Suppl. Int. Reg. Orchid Hybrids]: ×*Orchiserapias bevilacqua*.

×*Serapicamptis complicata* (E.G.Camus) J.M.H.Shaw in *Orchid Rev. Suppl.*, 113(1264): 20. 2005 [Quart. Suppl. Int. Reg. Orchid Hybrids]: ×*Orchiserapias complicata*.

×*Serapicamptis correvonii* (E.G.Camus & A.Camus) J.M.H.Shaw in *Orchid Rev. Suppl.*, 113(1264): 20. 2005 [Quart. Suppl. Int. Reg. Orchid Hybrids]: ×*Orchiserapias correvonii*.

×*Serapicamptis debeauxii* (E.G.Camus) J.M.H.Shaw in *Orchid Rev. Suppl.*, 113(1264): 20. 2005 [Quart. Suppl. Int. Reg. Orchid Hybrids]: ×*Orchiserapias debeauxii*.

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×*Serapicamptis garbariorum* (Murr) J.M.H.Shaw in *Orchid Rev. Suppl.*, 113(1264): 20. 2005 [Quart. Suppl. Int. Reg. Orchid Hybrids]: *Serapias garbariorum*.

×*Serapicamptis ligustica* (E.G.Camus) J.M.H.Shaw in *Orchid Rev. Suppl.*, 113(1264): 20. 2005 [Quart. Suppl. Int. Reg. Orchid Hybrids]: ×*Orchiserapias ligustica*.

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×*Serapicamptis pisanensis* (Godfery) J.M.H.Shaw in *Orchid Rev. Suppl.*, 113(1264): 20. 2005 [Quart. Suppl. Int. Reg. Orchid Hybrids]: ×*Orchiserapias pisanensis*.

×*Serapicamptis rousii* (Dupuy) J.M.H.Shaw in *Orchid Rev. Suppl.*, 113(1264): 20. 2005 [Quart. Suppl. Int. Reg. Orchid Hybrids]: *Serapias rousii*.

×*Serapicamptis tommasinii* (A.Kern.) J.M.H.Shaw in *Orchid Rev. Suppl.*, 113(1264): 20. 2005 [Quart. Suppl. Int. Reg. Orchid Hybrids]: *Serapias* ×*tommasinii*.

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Spilorchis weinthalii (R.S.Rogers) D.L.Jones & M.A.Clem. in *Orchadian* 15(1): 37. 2005 [Sep 2005]: *Bulbophyllum weinthalii*.

Spilorchis weinthalii (R.S.Rogers) D.L.Jones & M.A.Clem. subsp. *striatum* (D.L.Jones) D.L.Jones & M.A.Clem. in *Orchadian* 15(1): 37. 2005 [Sep 2005]: *Bulbophyllum weinthalii* subsp. *striatum*.

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Stanhopea manriquei Jenny & Nauray in *Lankesteriana* 4(2): 109 (-111; figs. 1-2). 2004 [27 Aug 2004] -Peru.

Stanhopea naurayi Jenny in *Lankesteriana* 5(1): 77 (-79; figs. 1-2). 2005 [30 Apr 2005] –Peru.

Stellilabium jostii Dodson, *Native Ecuadorian Orchids* 5: 1181 (1180, 1017; figs. 2366, 2367). 2004 [Nov 2004] –Ecuador.

Stellilabium vulcanicum Dodson & Hirtz, *Native Ecuadorian Orchids* 5: 1181 (1019; fig. 2373). 2004 [Nov 2004] –Ecuador.

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Stenotyta Dressler in *Lankesteriana* 5(2): 96. 2005 [Aug 2005].

Stenotyta lendyana (Rchb.f.) Dressler in *Lankesteriana* 5(2): 96. 2005 [Aug 2005]: *Chondrorhyncha lendyana*.

Stephanothelys siberiana Ormerod in *Harvard Pap. Bot.* 9(2): 422 (-423; fig. 40). 2005 [May 2005] - Cochabamba (Bolivia).

Sullivania subgen. *Tanychila* (D.L.Jones & M.A.Clem.) D.L.Jones & M.A.Clem. in *Orchadian* 15(1): 36. 2005 [Sep 2005]: *Paracaleana* subgen. *Tanychila*.

Sullivania disjuncta (D.L.Jones) D.L.Jones & M.A.Clem. in *Orchadian* 15(1): 36. 2005 [Sep 2005]: *Paracaleana disjuncta*.

Sullivania minor (R.Br.) D.L.Jones & M.A.Clem. in *Orchadian* 15(1): 36. 2005 [Sep 2005]: *Caleana minor*.

Sullivania nigrita (Lindl.) D.L.Jones & M.A.Clem. in *Orchadian* 15(1): 36. 2005 [Sep 2005]: *Caleana nigrita*.

Synmeria crinifera (Lindl.) Szlach. in *Orchidee (Hamburg)* 56(3): 331. 2005 [Aug 2005]: *Habenaria crinifera*.

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New Books

Pridgeon, A. M., Cribb, P. J., Chase, M. W. and Rasmussen, F. N. (eds.) 2005. *Genera Orchidacearum, Volume 4. Epidendroideae (Part One)*. Oxford University Press. ISBN 0-19-850712-7. Pp. 672 + xxii + 198 colour photographs in 48 plates. Over 200 distribution maps and line drawings. Price: £125.00.

This fourth volume treats the first 209 genera and 13 tribes of the largest subfamily, Epidendroideae, including some of the showiest orchids often used in hybridizing. In this volume, 40 contributors cover tribes Arethuseae, Calypsoeae, Collabieae, Epidendreae, Gastrodieae, Malaxideae, Neottieae, Nervilieae, Podochileae, Sobralieae, Triphoreae, Tropideae, and Xerorchideae.

Comprehensive treatments are provided for each genus, which include complete nomenclature, description, distribution (with map), anatomy, palynology, cytogenetics, phytochemistry, phylogenetics, pollination, ecology, and economic uses. Cultivation notes are included for those genera known to be in hobbyist collections. All genera are beautifully illustrated with line drawings and/or colour photographs. The endmatter comprises a glossary, extensive references, index to scientific names, and a subject index.

Copies may be purchased online from Oxford University Press at www.oup.co.uk/isbn/0-19-850712-7 or from other retail outlets.

Hágsater, E., Soto, M., Salazar, G., Jiménez, López, M., and Dressler, R. L. 2005. *Orchids of Mexico*. Instituto Chinoín, A.C., Mexico City. Pp. 304, 650 colour photographs. Available in English or Spanish. Price US\$100.00.

A superb treatment of the 164 genera of orchids native to Mexico grouped by the wide range of biomes from arid zones to tropical rain forests and coastal to alpine vegetation. Additional chapters are devoted to orchids and people, the Mexican landscape, and conservation.

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