

# CURRICULUM VITAE

## PORTER PRESCOTT LOWRY II

Born, Salem, Oregon, USA, October 27, 1956.  
US Citizenship; Resident in France. Married, two children.



### PRESENT POSITION

**Curator, and Head of the Africa and Madagascar Department, Missouri Botanical Garden**, P.O. Box 299, St. Louis, Missouri 63166-0299, USA (Tel: 314-577-9453; Fax: 314-577-9596; e-mail: [Pete.Lowry@mobot.org](mailto:Pete.Lowry@mobot.org); url: <http://www.mobot.org/MOBOT/Research/curators/lowry.shtml>). Address in France (permanent posting): Département Systématique et Evolution, Muséum National d'Histoire Naturelle, Case Postale 39, 57 rue Cuvier, 75231 Paris CEDEX 05, France (Tel: +(33) 1-40-79-33-51; Fax: +(33) 1-40-79-34-42; [lowry@mnhn.fr](mailto:lowry@mnhn.fr)).

### ASSOCIATE AND ADJUNCT POSITIONS

Chercheur Associé, Muséum National d'Histoire Naturelle, Paris, France (since 1989).  
Honorary Research Associate, Royal Botanic Gardens, Kew, U.K. (since 1999).  
Adjunct Associate Professor, Department of Biology, University of Missouri-St. Louis, USA (since 2003).  
Overseas Research Supervisor, Kunming Institute of Botany, Chinese Academy of Sciences, Kunming (since 2006).  
Member of the *Ecole Doctorale* and Chargé de Conservation, Muséum National d'Histoire Naturelle, Paris, France (since 2009).

### PREVIOUS POSITIONS

1986-90 Assistant Curator, Coordinator, Madagascar Research and Conservation Program, Missouri Botanical Garden.  
1990-99 Associate Curator, and Head, Africa and Madagascar Department, Missouri Botanical Garden.

### EDUCATION

1976 University of Illinois, Urbana, Illinois; B.S. in Botany, with Highest Honors and Departmental Distinction.  
1980 University of Illinois, Urbana, Illinois; M.S. in Botany. Thesis advisor: Almut G. Jones.  
1986 Washington University, St. Louis, Missouri; Ph.D. in Biology and Biomedical Sciences (Population Biology). Thesis advisor: Peter H. Raven.

### PROGRAMMATIC AND ADMINISTRATIVE RESPONSIBILITIES

- **Coordinator, MBG's [Madagascar Research and Conservation Program](#)** (~60 staff members in Madagascar, 4 based at MBG, 2 in Paris, 1 in Geneva). Main programmatic activities include:
  - Extensive botanical exploration (ca. 100,000 collections made by staff and associates in the past 23 years).
  - Systematic and taxonomic studies (ca. 180 papers published by program staff, students and collaborators).
  - Multi-level training (>50 Malagasy students and professionals trained) and employment opportunities through MBG's in-country program.
  - Collaboration with 5 local counterpart institutions and numerous international organizations.
  - Compilation of a comprehensive database on Malagasy plants and preparation of an on-line [Catalogue of the Vascular Plants of Madagascar](#), integrating threat assessments using IUCN Red List criteria.
  - Innovative approaches for applying botanical information to addressing conservation issues, including: GIS analysis of Priority Areas for Plant Conservation; evaluation of patterns of species richness and endemism;

- inventory of [Madagascar's East Coast Littoral Forests](#); and assessment of the impacts of climate change on Madagascar's flora and testing mitigation measures.
- Community-based conservation projects at 10 newly established protected areas located at priority sites for plant conservation, each integrating the principles of sustainable natural resource management, ecological restoration, the [Restoration of Natural Capital](#), participatory management and social entrepreneurship.
  - Development of botanical expertise for Environmental Impact Assessments and participation in selected EIA studies on a contract basis.
  - **Coordinator of MBG's [Africa Program](#)** (10 staff members). Main programmatic activities include:
    - Tanzania Botanical Research and Conservation Program, which has trained >25 local botanists, conducted field work in dozens of key sites, carried out a collaborative, multi-institutional CEPF-funded project on Red List assessments of threatened species and identification of priority conservation areas, and is now participating in an analysis of climate change and its implications for conservation in the Tanzania-Kenya borderlands area (staff include R. Gereau, G. Schatz, S. Bodine, W. Kindeketa).
    - Central Africa Program, which includes collaborative, inter-institutional research, inventory and training activities in Gabon, São Tomé, Equatorial Guinea and Cameroon (participating staff: G. Walters, M. Leal, T. Stévert, D. Nguema, P. Bissiemou, and E. Mounoumoulossi).
    - Research in Southern Africa, primarily on Iridaceae and related families (participating staff: P. Goldblatt).
    - Maintaining and expanding North America's largest and most comprehensive collection and associated data on plants from Africa and Madagascar as a resource for the research community.
  - **MBG Liaison based at the *Museum National d'Histoire Naturelle in Paris***, coordinating MBG collaborative involvement in research within the *Département Systématique et Evolution* on the floras of Madagascar, New Caledonia and Africa; contributing to MNHN research activities; and facilitating collaboration and visits to Paris by scientists from the U.S., Madagascar, Africa and elsewhere.
  - **Coordinator of MBG activities in New Caledonia**, which include botanical inventories of poorly-known sites; description of newly discovered taxa; and systematic, biogeographic and evolutionary research on selected groups.

#### CURRENT RESEARCH INTERESTS

- **Systematics of Araliaceae** – current research activities include:
  - Floristic treatments: New Caledonia, Madagascar, Gabon, Angola, Indochina.
  - Taxonomic revisions and descriptions of new taxa: *Schefflera sensu lato* (ca. 1100 spp.; with G. M. Plunkett, D. G. Frodin and others), *Polyscias sensu lato* (ca. 210 spp.; with G. M. Plunkett), *Meryta* (ca. 40 spp.; with F. Tronchet), etc.
  - Phylogeny: broad relationships within the family (with G. M. Plunkett, J. Wen and others); re-circumscription of *Polyscias sensu lato* and *Schefflera sensu lato* (with G. M. Plunkett); inter-specific relationships in *Meryta* (with F. Tronchet and G. M. Plunkett), etc.
  - Ongoing field exploration (recent trips to Madagascar, New Caledonia and the Solomon Islands).
  - IUCN threat assessments, including a measure of “phylogenetic diversity”, to test conservation importance.
- **Systematics of other groups within Apiales**, including Myodocarpaceae (with G. M. Plunkett) and Pittosporaceae (with C. Gemmill and J. Munzinger).
- **Flora and vegetation of Madagascar** – current activities include:
  - Taxonomic revisions and descriptions of new taxa (numerous groups; see *Publications in Press or in Review and Papers in Preparation* below).
  - Implementation of the [Catalogue of the Vascular Plants of Madagascar](#) (with P. B. Phillipson, G. E. Schatz, S. Andriambololonera and others).
- **Evolution and diversification of the New Caledonian flora**, including systematic and phylogenetic studies of Pittosporaceae (with C. Gemmill and J. Munzinger), Sapindaceae (with S. Buerki, J. Munzinger and M. Callmänder) and Sapotaceae (with U. Swenson and J. Munzinger).
- **Application of botanical information to conservation planning and management.**
- **Integration of Ecological Restoration and the principles of [Restoration of Natural Capital](#) (RNC) and Carbon Offsets** into community-based conservation activities and natural resource management policies.

### CONSULTING EXPERIENCE

- 1989-91 Principal Consultant, Flora and Vegetation Environmental Impact Assessment Study for QIT - Madagascar Minerals Project, Montreal, Quebec, Canada. This study involved a team of seven scientists and was carried out in 3 phases between March, 1989 and January, 1991.
- 1995 Coordinator, Plant Specialist Group, Madagascar Conservation Priority Setting Workshop, United Nations Development Programme (UNDP) and the Global Environment Facility (GEF).
- 1996 Ecological Monitoring Consultant, Kibale National Park Biological Field Station, Uganda. Consultancy for the Consortium for International Development.
- 1998 Principal Consultant, Review of the MIR 1997 Regional Deforestation Study and the Current and Planned QMM Conservation and Rehabilitation Program in the area of Fort-Dauphin (Tolagnaro), Madagascar for the mining company QMM, Montreal, Quebec, Canada.
- 2000 Facilitator, Congolese Forest Eco-region Priority Setting Workshop, Libreville, Gabon (March 29-April 2). This workshop, sponsored by the World Wide Fund for Nature (WWF), involved more than 100 specialist participants.
- 2000-01 Principal Consultant, Re-assessment and Update of Priority Endemic Plant Species At Mandena, Tolagnaro Region, Madagascar for the mining company QMM, Montreal, Quebec, Canada (in collaboration with P. Smith, RBG Kew).
- 2007-09 Coordinator, Identification of Priority Plant Species for a Social and Environmental Impact Assessment Study of the Proposed Petaquilla Mine Site, Panama, for Golder Associates, Inc.

### OTHER PROFESSIONAL EXPERIENCE

- 1976-79 Teaching Assistant in Botany (General Botany, Introductory Plant Taxonomy, Field Ecology), University of Illinois.
- 1979 Student Herbarium Assistant, University of Illinois (Spring Semester).
- 1979 Research Assistant, University of Illinois (Spring Semester).
- 1979 Range Technician (Botanist), Bureau of Land Management, Butte District, Butte, Montana (Summer).
- 1980-81 Visiting Lecturer, University of Illinois.
- 1982-84 Teaching Assistant (General Biology, Medicinal Plants), Washington University.
- 1999 Instructor, Programme de Formation en Botanique de Terrain, Limbe Botanic Garden, Cameroon (7-14 November).

### CURRENT COMMITTEES, COUNCILS AND BOARDS

- 1998- Senior Editorial Board, [Oryx: The International Journal of Conservation](#).
- 1999- Member, Editorial Board, [Adansonia](#).
- 2001- [QMM Biodiversity Advisory Committee](#), QMM, Madagascar (President since 2006).
- 2003- IUCN Madagascar Plant Specialist Group.
- 2006- Board of Directors, [EDIT \(European Distributed Institute of Taxonomy\)](#).
- 2006- Conseil Scientifique, [Sud Expert Plantes](#) project.
- 2007- Member, Editorial Board, [Journal of Systematics and Evolution](#) (formerly *Acta Phytotaxonomica Sinica*).
- 2007- Member, Board of Directors, [Madagascar Fauna Group](#).
- 2008- Member, Editorial Board, [Madagascar Conservation and Development](#).
- 2008- Scientific Advisory Group, FORANET Project (Establishment of a Forestry Research Network of ACP Countries), Coordinated by [CIFOR](#).
- 2009- Member, Editorial Board, *Plant Ecology and Evolution*.

### PAST COMMITTEES, COUNCILS AND BOARDS

- 1983-93 Editorial Committee, Index to Plant Chromosome Numbers.
- 1987-92 Special Committee on Lectotypification, International Association for Plant Taxonomy.
- 1988-98 Scientific Advisory Council, Conservatoire et Jardin Botanique de Mascarin, Réunion Island.

- 1997-98 Editorial Committee, Flora of Taiwan, Vol. 4.  
 2006-07 Scientific Commission, 18<sup>th</sup> AETFAT Congress, Yaoundé, Cameroon.  
 2007-08 Vice-Chair, Apiales VI Symposium Organizing Committee.

#### FIELD EXPERIENCE

Plant collecting. More than 7,100 numbers from 25 countries and territories: Australia, Canada, Chile, China, Fiji, France, French Polynesia (Tahiti), Gabon, Hawai'i, Indonesia (West Papua – formerly Irian Jaya – and Java), Madagascar, Mexico, New Caledonia, New Zealand, Norway, Portugal, Reunion Island, Seychelles, Solomon Islands, South Africa, Taiwan, Tanzania, USA (22 States), Vanuatu, Viet Nam, and Zimbabwe.

Other field activities: Cameroon, Congo Republic, Costa Rica, Equatorial Guinea, Ghana, Ivory Coast, Kenya, São Tomé, South Africa, and Uganda.

#### FOREIGN LANGUAGE

French; written, read and spoken fluently.

#### PROFESSIONAL MEMBERSHIPS

American Society of Plant Taxonomists; International Association for Plant Taxonomy; Association for the Taxonomic Study of the Flora of Tropical Africa (AETFAT); Society for Conservation Biology; Société Française de Systématique.

#### CURRENT GRADUATE STUDENTS AND COMMITTEES

- Raymonde Mboma, Ph.D. candidate, Muséum National d'Histoire Naturelle, Paris, France. Research subject: Caractérisation des espèces forestières pour une exploitation durable des ressources forestières en Afrique centrale : le cas des Légumineuses du Gabon. (Co-director).
- Louis Nusbaumer, Ph.D. candidate, Université de Genève, Switzerland. Research subject: Influence of environmental gradients on patterns of vegetation changes in the transitional area of Loky-Manambato (NE Madagascar). (Committee member).
- Julien Renoult, Ph.D. candidate, Centre d'Ecologie Fonctionnelle et Evolutive, CNRS, Montpellier, France. Research subject: Dispersion des *Ficus* à Madagascar. (Committee member).
- Joeri Strijk, Ph.D. candidate, Université de Toulouse, France. Research subject: Plant diversification and differentiation in Madagascar and Indian Ocean Islands. (Committee member).
- Laura B. Vary, Ph.D. candidate, Department of Ecology and Evolutionary Biology, University of California, Irvine, USA. Research subject: Breeding system evolution in Malagasy Sapindaceae. (Committee member).

#### PAST GRADUATE STUDENT COMMITTEES

- 1993 Félix Koubouana. Doctorat (= Ph.D.), Université Paris VI. Thesis title: Les forêts de la Vallée du Niari (Congo): études floristiques et structurales.
- 1997 Thierry Pailler. Doctorat (= Ph.D.), Université de la Réunion. Thesis title: L'hétérostylie dans l'archipel des Mascareignes: présence, maintien et évolution.
- 1997 Bénédicte Sirot. Diplôme de Recherches Doctorales (= M.S.), Université Raymond Poincaré, Nancy I. Thesis title: Etude systématique d'un genre de Boraginaceae d'Amérique: *Bourreria*.
- 1999 Sylvie Ratokivalondrahona. Diplôme d'Etudes Approfondies (= M.S.), Université d'Antananarivo, Madagascar. Thesis title: Contribution à l'étude taxonomique du genre endémique *Tina* Roem. & Schultes (Sapindaceae).
- 1999 Jeannie Raharimampionona. Diplôme d'Etudes Approfondies (= M.S.), Université d'Antananarivo, Madagascar. Thesis title: Contribution à l'étude taxonomique du genre *Canarium* Engl. (Burseraceae) à Madagascar.
- 2000 Honoré Tabuna. Doctorat (= Ph.D.), Muséum National d'Histoire Naturelle, Paris, France. Thesis title: Les produits forestier non ligneux alimentaires de l'Afrique centrale sur les marchés français et belges. Situation actuelle et perspectives.

- 2000 Jérôme Munzinger. Doctorat (= Ph.D.), Muséum National d'Histoire Naturelle, Paris, France. Thesis title: Systématique des genres *Hybanthus* et *Agatea* en Nouvelle-Calédonie, implications sur la phylogénie des Violaceae ligneuses tropicales.
- 2001 Naina Mamisoa Andrianjafy. Diplôme d'Etudes Approfondies (= M.S.), Université d'Antananarivo, Madagascar. Thesis title: Description, distribution, écologie, utilisation et risque d'extinction des espèces de *Rhodolaena* (famille des Sarcolaenaceae: endémique de Madagascar).
- 2001 Fanjambola Yolande Razafindrakoto. Diplôme d'Etudes Approfondies (= M.S.), Université d'Antananarivo, Madagascar. Thesis title: Description, distribution, écologie, utilisation et risque d'extinction de neuf espèces de du genre *Schizolaena* appartenant à une famille endémique de Madagascar: Sarcolaenaceae).
- 2001 Frédéric Tronchet. Diplôme d'Etudes Approfondies (= M.S.), Muséum National d'Histoire Naturelle, Paris, France. Thesis title: Analyse phylogénétique des espèces néo-calédoniennes d'un genre d'Araliaceae du Pacifique: *Meryta* J.R. Forst. & G. Forst.
- 2002 Martin W. Callmänder. Doctorat ès Sciences, Université de Neuchâtel, Switzerland. Thesis title: Biogéographie et systématique des Pandanaceae de l'Océan Indien occidental.
- 2003 Bouakhaykhone Svengsuksa. Doctorat (= Ph.D.), Muséum National d'Histoire Naturelle, Paris, France. Thesis title: Reconstitution du couvert végétal et la revalorisation des terrains après la culture sur brûlis dans le district de Muang Fuang, province de Vientiane, R.D.P. Lao.
- 2003 Cynthia Hong-Wa. Diplôme d'Etudes Approfondies (= M.S.), Université d'Antananarivo, Madagascar. Thesis title: Description, distribution, écologie, utilisations et risques d'extinction des espèces du genre *Leptolaena* Thouars sensu stricto (Sarcolaenaceae, famille endémique de Madagascar).
- 2003 Thomas Haevermans. Doctorat (= Ph.D.), Muséum National d'Histoire Naturelle, Paris, France. Thesis title: Le genre *Euphorbia* L. à Madagascar: Phylogénie et Systématique.
- 2003 Richard Randrianaivo. Diplôme d'Etudes Approfondies (= M.S.), Université d'Antananarivo, Madagascar. Thesis title: Révision synoptique des espèces Malgaches du genre *Mimusops* L. (Sapotaceae).
- 2004 Stefan Ungricht. Doctorat (= Ph.D.), Université Montpellier II. Thesis title: The endemic fig trees of New Caledonia: quantitative assessment of collections for taxonomy, floristics and conservation.
- 2004 Virginie Raquet. Diplôme d'Etudes Approfondies (= M.S.), Muséum National d'Histoire Naturelle, Paris, France. Thesis title: Phylogénie morphologique des Myodocarpaceae : famille sub-endémique de Nouvelle-Calédonie.
2005. Ludovic Ngok Banak. Doctorat (= Ph.D.), Université Libre de Bruxelles, Belgium. Thesis title: Etude de la diversité végétale autour des inselbergs et des dalles rocheuses du nord Gabon.
2005. Thomas Viot. Master, Ecole Polytechnique, Paris. Thesis title: Analysis of the structure and composition of a forest fragment in eastern Madagascar in relation to human disturbance for sustainable management and restoration.
2006. Jérôme Murienne. Doctorat (= Ph.D.), Muséum National d'Histoire Naturelle, Paris, France. Thesis title: Origine de la biodiversité en Nouvelle-Calédonie. Analyse phylogénétique de l'endémisme chez les insectes: Dictyoptères.
2007. Hélène Ralimanana Randriananahary. Doctorat (= Ph.D.), Université d'Antananarivo, Madagascar. Thesis title: Systématique et biogéographie de *Phyllanthus* L. (Phyllanthaceae) de Madagascar.
2008. Yohan Pillon. Doctorat (= Ph.D.), Université de la Nouvelle-Calédonie. Thesis title: Biodiversité, origine et évolution des Cunoniaceae: implications pour la conservation de la flore de la Nouvelle-Calédonie.
2008. Vincent Droissart. Doctorat (= Ph.D.), Université Libre de Bruxelles, Belgium. Thesis title: Etude taxonomique et biogéographiques de plantes rares, le cas des Orchidaceae endémiques d'Afrique Centrale Atlantique.
2009. Sven Buerki. Doctorat (= Ph.D.), Université de Neuchâtel, Switzerland. Thesis title: Worldwide biogeography and systematics of Sapindaceae: a molecular and taxonomic survey involving large datasets and novel methodological approaches.
2009. Lucie Lopes-Ferreira, Master 2, Université Pierre et Marie Curie, Paris, France. Thesis title: Taxonomie et phylogénie moléculaire du genre *Xerophyta* à Madagascar.

#### HONOR SOCIETIES

Phi Beta Kappa; Phi Kappa Phi; Sigma Xi (Associate Member).

**PUBLICATIONS AND THESES**

1. Lowry, P. P., II. 1976. A biosystematic study of two species in the genus *Osmorhiza* (Umbelliferae). B.S. Thesis, University of Illinois. 122pp.
2. Lowry, P. P., II and A. G. Jones. 1977. Nomenclatural notes on *Osmorhiza* Rafinesque (Apiaceae) and two proposals for additions to Article 34 of the Code. *Taxon* 26: 567-569.
3. Lowry, P. P., II and A. G. Jones. 1978. Correction of the publication date for the generic name *Osmorhiza* Rafinesque. *Taxon* 27: 550.
4. Lowry, P. P., II and A. G. Jones. 1979. Biosystematic investigations and taxonomy of *Osmorhiza* Rafinesque section *Osmorhiza* (Apiaceae) in North America. *Amer. Midl. Naturalist* 101: 21-27.
5. Lowry, P. P., II. 1980. A biosystematic study and taxonomic revision of *Osmorhiza* Rafinesque (Apiaceae). M.S. Thesis, University of Illinois. 355pp.
6. Lowry, P. P., II. 1981. A floristic survey of the Bear Trap Canyon, Madison County, Montana, with a discussion of author citations using the connecting words *in* and *ex*. *Phytologia* 49: 81-94.
7. Lowry, P. P., II and A. G. Jones. 1984 (1985). [Systematics of \*Osmorhiza\* Raf. \(Apiaceae: Apioideae\)](#). *Ann. Missouri Bot. Gard.* 71: 1128-1171.
8. Lowry, P. P., II. 1985. Proposal to conserve 5941 *Osmorhiza* Raf. against *Uraspermum* Nutt. (Apiaceae). *Taxon* 34: 316-318.
9. Lowry, P. P., II. 1986. A systematic study of three genera of Araliaceae endemic to or centered in New Caledonia: *Delarbrea*, *Myodocarpus*, and *Pseudosciadium*. Ph.D. Thesis, Washington University, St. Louis. 258pp.
10. Lowry, P. P., II, F. G. Davies and P. S. Green. 1986. The distribution and synonymy of *Polyscias cissodendron* (Araliaceae). *Kew Bull.* 41: 804.
11. Lowry, P. P., II. 1986. A systematic study of *Delarbrea* Vieill. (Araliaceae). *Allertonia* 4: 169-201.
12. Jones, A. G. and P. P. Lowry II. 1987. Types and selected historic specimens of *Aster* s.l. (Asteraceae) in the Herbarium, Laboratoire de Phanérogamie, Muséum National d'Histoire Naturelle, Paris (P). *Bull. Mus. Natl. Hist. Nat., Paris, ser. 4, sect. B, Adansonia* 8: 393-412.
13. Lowry, P. P., II. 1987. [A synopsis of native Hawaiian Araliaceae](#). *Pacific Science* 40: 79-87.
14. Lowry, P. P., II, P. Goldblatt and H. Tobe. 1987. [Notes on the floral biology, cytology and embryology of \*Campynemanthe\* \(Liliales: Campynemataceae\)](#). *Ann. Missouri Bot. Gard.* 74: 573- 576.
15. Lowry, P. P., II. 1988. [Notes on the Fijian endemic \*Meryta tenuifolia\* \(Araliaceae\)](#). *Ann. Missouri Bot. Gard.* 75: 389-391.
16. Lowry, P. P., II, J. S. Miller and D. G. Frodin. 1989. New combinations and name changes for some cultivated tropical Old World and Pacific Araliaceae. *Baileya* 23: 5-13.
17. Lowry, P. P., II. 1989. A revision of Araliaceae from Vanuatu. *Bull. Mus. Natl. Hist. Nat., Paris, ser. 4, sect. B, Adansonia* 11: 117-155.
18. Schlessman, M. A., D. G. Lloyd and P. P. Lowry II. 1990. Evolution of sexual systems in New Caledonian Araliaceae. *Mem. New York Bot. Gard.* 55: 105-117.
19. Lowry, P. P., II. 1990. Araliaceae. Pp. 224-237 in: W. L. Wagner, D. L. Herbst and S. H. Sohmer, *Manual of the flowering plants of Hawai'i*. Vol. 1. Univ. Hawaii Press, Bishop Museum Press, Honolulu.
20. Schlessman, M. A., P. P. Lowry II and D. G. Lloyd. 1990. [Functional dioecism in the New Caledonian endemic \*Polyscias pancheri\* \(Araliaceae\)](#). *Biotropica* 22: 133-139.
21. Lowry, P. P., II. 1991. Le rôle des jardins botaniques dans l'inventaire et la protection de la flore tropicale: exemple de la flore malgache. Pp. 241-246 in: M. Chauvet and M. Delmas (eds.), *Jardins Botaniques et Arboretums de Demain*. Bureau des Ressources Génétiques, Paris.
22. Lowry, P. P., II. 1991. Evolutionary patterns in the flora and vegetation of New Caledonia. Pp. 373-379 in: E. C. Dudley (ed.). *The unity of evolutionary biology*. Proceedings of the Fourth International Congress of Systematic and Evolutionary Biology. Dioscorides Press, Portland, Oregon.
23. Lowry, P. P., II. 1992. Conservation and development in Madagascar. *Wings* 16: 10-13.
24. Lowry, P. P., II. 1993. *Meryta*, *Apiopetalum*, *Cheirodendron*, *Myodocarpus*, *Pseudosciadium*, *Munroidendron*, *Reynoldsia*, *Tetraplasandra*, and *Polyscias*. Pp. 88-105 in M. M. J. van Balgooy (ed.). *Pacific Plant Areas*. Vol. 5. Rijksherbarium/Hortus Botanicus, Leiden University, The Netherlands.
25. M. M. J. van Balgooy and P. P. Lowry II. 1993. *Delarbrea*. Pp. 95-96 in M. M. J. van Balgooy (ed.). *Pacific Plant Areas*. Vol. 5. Rijksherbarium/Hortus Botanicus, Leiden University, The Netherlands.

26. Rabevohitra, R., P. P. Lowry II, G. E. Schatz, H. Randrianjafy and N. Razafindrianilana. 1996. Rapport sur le projet "Assessment of plant diversity and conservation importance of east coast low elevation Malagasy rain forests". FOFIFA-DRFP Rap. 714, 28 pp. + annexes.
27. Schatz, G. E., P. P. Lowry II, M. Lescot, A.-E. Wolf, S. Andriambololona, V. Raharimalala & J. Raharimampionona. 1996. Conspectus of the vascular plants of Madagascar: a taxonomic and conservation electronic database. Pp. 10-17 in L. J. G. van der Maesen et al. (eds.) *The Biodiversity of African Plants*. Kluwer Acad. Publ., Dordrecht, Boston and London.
28. Lowry, P. P., II. 1996. Prospects for the future of botanical work in Tanzania: the challenge of finding new ways to fund priority activities. Pp. 40-46 in: J. S. Miller & R. E. Gereau (eds.), *Proceedings Strategy Conference on the Development of Botanical Collections in Tanzania*. National Herbarium of Tanzania and the Missouri Botanical Garden.
29. Lowry, P. P., II, G. E. Schatz and P. B. Phillipson. 1997. The classification of natural and anthropogenic vegetation in Madagascar. Pp. 93-123 in: S. M. Goodman and B. D. Patterson (eds.), *Natural change and human impact in Madagascar*. Smithsonian Inst. Press, Washington, D.C.
30. Oskolski, A. A., P. P. Lowry II and H. G. Richter. 1997. [Systematic wood anatomy of \*Myodocarpus\*, \*Delarbrea\*, and \*Pseudosciadium\* \(Araliaceae\)](#). *Adansonia*, sér. 3., 19: 61-75.
31. Morat, Ph. and P. P. Lowry II. 1997. [Floristic richness in the Africa-Madagascar region: a brief history and prospective](#). *Adansonia*, sér. 3, 19: 101-115.
32. Schatz, G. E., P. P. Lowry II and A. Ramisamihantanirina. 1998. [Takhtajania perrieri rediscovered](#). *Nature* 391: 132-133.
33. Rabevohitra, R., L. Wilmé, P. P. Lowry II and G. E. Schatz. 1998. La diversité floristique et l'importance de la conservation des forêts littorales de la côte Est. Pp. 65-99 in: J. Ratsirarson and S. M. Goodman (eds.), *Inventaire biologique de la forêt littorale de Tampolo (Fenoarivo Atsinanana)*. Rech. Pour le Développement, Sér. Sci. Biol., Vol. 14.
34. Lowry, P. P., II. 1998. Diversity, endemism, and extinction in the flora of New Caledonia: a review. Pp. 181-206 in: C.-I Peng and P. P. Lowry II (eds.), *Proc. Intl. Symposium on Rare, Threatened, and Endangered Floras of Asia and the Pacific*. Academia Sinica, Taipei, Taiwan.
35. Lowry, P. P., II, G. E. Schatz and P. B. Phillipson. 1998. Classification de la végétation naturelle et anthropique de Madagascar. *Bull. Acad. Natl. Madagascar*, n.s., 73: 219-233.
36. Schatz, G. E., P. P. Lowry II and A.-E. Wolf. 1998. [Endemic families of Madagascar. I. A synoptic revision of \*Melanophylla\* Baker \(Melanophyllaceae\)](#). *Adansonia*, sér. 3, 20: 233-242.
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- Plunkett, G. M. and P. P. Lowry II. Araliaceae. In: K. Kubitzki (ed.), *The Families and Genera of Vascular Plants*. Springer-Verlag, Berlin (in review).
- Schatz, G. E., P. P. Lowry II and G. M. Plunkett. Melanophyllaceae. In: K. Kubitzki (ed.), *The Families and Genera of Vascular Plants*. Springer-Verlag, Berlin (in review).
- Plunkett, G. M., J. Wen, P. P. Lowry II, A. D. Mitchell, M. J. Henwood and P. Fiaschi. Araliaceae. In: K. Kubitzki (ed.), *The Families and Genera of Vascular Plants*. Springer-Verlag, Berlin (in review).

**MANUSCRIPTS IN PREPARATION**

1. Lowry, P. P., II and G. M. Plunkett. A taxonomic revision of *Polyscias* subg. *Tieghemopanax* (Araliaceae). To be submitted to *Adansonia*, sér. 3.
2. Hong-Wa, C., T. Distler, G. E. Schatz, P. P. Lowry II and I. Jiménez. Determinants and prediction of broad-scale plant species richness across Madagascar. To be submitted to *Biodiv. and Conserv.*
3. Lowry, P. P. II, G. M. Plunkett and D. G. Frodin. A taxonomic revision of *Plerandra* A. Gray. subg. *Canacoschefflera* Frodin, Lowry & Plunkett (Araliaceae), a new endemic subgenus from New Caledonia. To be submitted to *Adansonia*, sér. 3.
4. Schatz, G. E. and P. P. Lowry II. Nomenclatural notes on Malagasy *Diospyros* L. (Ebenaceae). To be submitted to *Adansonia*, sér. 3.
5. Lowry, P. P. II, G. M. Plunkett, M. Gostel, A. N. Nicolas and C. Rodrigues Vaz. A taxonomic revision of the endemic southwest Pacific *Plerandra* A. Gray. subgen. *Dizygotheca* (N.E. Brown) Lowry & Plunkett (Araliaceae). To be submitted to *Adansonia*, sér. 3.
6. Droissart V., P. P. Lowry II, J. Bosser, D. L. Roberts and T. Stévant. Correcting nomenclatural confusion in *Angraecum gracile* Thouars. To be submitted to *Taxon*.
7. Liu, M., G. M. Plunkett and P. P. Lowry II. Fruit structure in *Myodocarpus* and *Delarbrea* confirms the recognition of Myodocarpaceae. To be submitted to *Syst. Bot.*
8. Sprenkle, T. S., G. M. Plunkett and P. P. Lowry II. Phylogenetic relationships in Myodocarpaceae (Apiales) based on nuclear and plastid sequence data. To be submitted to *Amer. J. Bot.*
9. Buerki, S., M. W. Callmender, F. Forest, N. Alvarez, S. G. Razafimandimbison, P. Küpfer and P. P. Lowry II. Sapindaceae revisited: Molecular sequence data, morphology and biogeography support recognition of a new family, Xanthoceraceae. To be submitted to *Taxon*.
10. Barrabé, L., A. Mouly, P. P. Lowry II and J. Munzinger. A morphological phylogenetic study of *Bikkia* (Rubiaceae): polyphyly necessitates reinstatement of the endemic New Caledonian genus *Thiolliera*.
11. Liu, M., G. M. Plunkett, B.-E. van Wyk, P. M. Tilney and P. P. Lowry II. Evidence from fruit carpophore supports the circumscription of Apiaceae subfamily Azorelloideae.
12. Schatz, G. E., P. P. Lowry II and H. Sauquet. A second species in the endemic Malagasy genus *Doyleanthus* (Myristicaceae). To be submitted to *Syst. Bot.*
13. Phillipson, P. B., L. Lopes-Ferreira and P. P. Lowry II. A synoptic revision of *Xerophyta* Juss. (Velloziaceae) in Madagascar. To be submitted to *Adansonia*, sér. 3.
14. Liu, M., B.-E. van Wyk, P. M. Tilney, G. M. Plunkett and P. P. Lowry II. Morphological characters of the fruit carpophores of the South African endemic genera *Alepidea* and *Arctopus* and their taxonomic value (Apiaceae, Saniculoideae). To be submitted to *S. Afr. J. Bot.*
15. Lowry, P. P., II, G. E. Schatz and M. W. Callmender. What is narrow endemism? Using IUCN Red List threshold criteria to define a key concept in conservation biology. To be submitted to *Trends Ecol. Evol.*
16. Randrianasolo, A. and P. P. Lowry II. A taxonomic revision of *Abrahamia*, a new genus of Anacardiaceae endemic to Madagascar. To be submitted to *Adansonia*, sér. 3.
17. Rabarimanarivo, M. N., N. H. Rakotonirina, P. B. Phillipson and P. P. Lowry II. Révision du genre *Ivodea* Capuron (Rutaceae) à Madagascar et aux Comores. To be submitted to *Adansonia*, sér. 3.
18. Wen, J., P. P. Lowry II and G. M. Plunkett. *Trevesia ravenii*, a new, restricted range species of Araliaceae from southwestern Yunnan Province, China. To be submitted to *Novon*.
19. Phillipson, P. B., P. P. Lowry II and G. E. Schatz. A synoptic revision of *Tacca* J.R. Forst. & G. Forst. (Dioscoreaceae) in Madagascar. To be submitted to *Adansonia*, sér. 3.
20. Liu, M., B.-E. van Wyk, G. M. Plunkett, P. P. Lowry II and P. M. Tilney. Phylogenetic interpretation of fruit structural diversity in *Bupleurum* (Apiaceae). To be submitted to *Amer. J. Bot.*
21. Lowry, P. P., II, P. B. Phillipson and G. E. Schatz. A synoptic revision of *Hirtella* L. (Chrysobalanaceae) in Madagascar. To be submitted to *Adansonia*, sér. 3.
22. Schatz, G. E., R. E. Gereau and P. P. Lowry II. A revision of the Malagasy endemic genus *Beguea* (Sapindaceae). To be submitted to *Adansonia*, sér. 3.
23. Rogers, Z. and P. P. Lowry II. A synoptic revision of the endemic Malagasy genus *Bembicia* Oliv. (Salicaceae). To be submitted to *Adansonia*, sér. 3.
24. Andriambololonera, S., S. G. Razafimandimbison, P. P. Lowry II and B. Bremer. A taxonomic revision of *Bremeria* Razafim. & Alejandro (Rubiaceae).

25. Andriambololona, S., S. G. Razafimandimbison, P. P. Lowry II and B. Bremer. Phylogeography of *Bremeria* Razafim. & Alejandro (Rubiaceae).
26. Lowry II, P. P., E. Rakotobe and Schatz, G. E. Schatz. A synoptic revision of the endemic Malagasy genus *Dicoryphe* Thouars (Hamamelidaceae). To be submitted to *Adansonia*, sér. 3.
27. Randrianasolo, A. and P. P. Lowry II. A synoptic revision of *Sorindeia* (Anacardiaceae) in Madagascar. To be submitted to *Adansonia*, sér. 3.
28. Haevermans, T., P. B. Phillipson, J.-N. Labat and P. P. Lowry II. Revision of the Mascarene island endemic *Euphorbia* L. section *Denisophorbia*. To be submitted to *Ann. Missouri Bot. Gard.*
29. Plunkett, G. M. and P. P. Lowry II. Myodocarpaceae. In: K. Kubitzki (ed.), *The Families and Genera of Vascular Plants*, Springer-Verlag, Berlin (in review).
30. Plunkett, G. M., P. P. Lowry II and J. Wen. In: K. Kubitzki (ed.), *The Families and Genera of Vascular Plants*. Springer-Verlag, Berlin.
31. Lowry, P. P., II and G. M. Plunkett. Araliaceae, Myodocarpaceae. Flore de la Nouvelle-Calédonie et Dépendances. Muséum National d'Histoire Naturelle, Paris.

### TAXONOMIC NOVELTIES

Newly described taxa and new names: 1 suborder, 2 subfamilies, 1 genus, 68 species, and 1 infraspecific taxon.  
New combinations: 20 species and 3 infraspecific taxa.

### BOOKS PUBLISHED

1. Lowry, W. P. and P. P. Lowry II. 1990. [Fundamentals of Biometeorology. Vol. 1. The Physical Environment](#). Peavine Publ., McMinnville, Oregon, USA. 310pp.
2. Lowry, W. P. and P. P. Lowry II. 2001. [Fundamentals of Biometeorology. Vol. 2. The Biological Environment](#). Peavine Publ./Missouri Botanical Garden Press, St. Louis. 680pp.

### VOLUMES EDITED

1. Goldblatt, P. and P. P. Lowry II (eds.). 1988. [Modern Systematic Studies in African Botany: Proceedings of the Eleventh Plenary Meeting of the Association for the Taxonomic Study of the Flora of Tropical Africa](#). Monogr. Syst. Bot. Missouri Bot. Gard. 25: 1-710.
2. Peng, C.-I. and P. P. Lowry II (eds.). 1998. Rare, threatened, and endangered floras of Asia and the Pacific rim. Inst. of Botany, Academia Sinica, Monogr. Ser. 16. Taipei, Taiwan. 283 pp.
3. Watson, M. F., G. M. Plunkett, S. R. Downie & P. P. Lowry II (eds.). 2001. [Evolution, biogeography and systematics of the Apiales \(Araliaceae and Apiaceae\)](#). *Edinb. J. Bot.* 58: 177-356.

### OTHER ELECTRONIC PUBLICATIONS

1. Lowry, P. P., II, G. E. Schatz and P. B. Phillipson. 1995-present. [The classification of natural and anthropogenic vegetation in Madagascar](#).
2. Lowry, P. P., II. 1997-present. [Diversity, endemism and extinction in the flora and vegetation of New Caledonia](#).
3. Schatz, G. E., S. Andriambololona, J. Randriampionona and P. P. Lowry II. 2003-present. [Rediscovering lost species](#). [Internet Explorer only].
4. Birkinshaw, C., P. P. Lowry II, J. Aronson, A. Lehavana, R. Ludovic, M. Andrianjafy and J.-J. Rasolofomirino. 2007-present. [RNC initiatives of the Missouri Botanical Garden – Madagascar](#).

### TECHNICAL REPORTS

1. Parker, J. E., with P. P. Lowry II and V. Randrianasolo. 1989. The Botanical and Zoological Park of Tsimbazaza: Guidelines for the Future. Department of Natural History, Parc Botanique et Zoologique de Tsimbazaza, Antananarivo, Madagascar. 48pp.
2. Lowry, P. P., II. 1989. Flora and vegetation study (late flowering season) of the Mandena Mine Site, region of Tolagnaro, Madagascar. Prepared for QIT - Fer et Titane, Inc., Montreal, Quebec. 189pp.

3. Lowry, P. P., II (with collaborators). 1991. Final report, overall flora and vegetation study, Madagascar Minerals Project. Prepared for QIT - Fer et Titane Inc., Montreal, Quebec.
4. Lowry, P. P., II. 1996. Long-term ecosystem/biodiversity monitoring at the Makerere University Biological Field Station, Kibale National Park, Uganda and prospects for a national monitoring workshop. Prepared for the Consortium for International Development, Tucson, Arizona. 42pp.
5. Lowry, P. P., II and Paul P. Smith. 1998. Review of MIR Télédetection Inc. Deforestation Study in the Region of Fort-Dauphin (Tolagnaro), Madagascar. Prepared for QIT – Fer et Titane, Inc., Montreal, Quebec.
6. Lowry, P. P., II and Paul P. Smith. 1998. Review of Current and Planned QMM Rehabilitation Activities. Prepared for QIT – Fer et Titane, Inc., Montreal, Quebec.
7. Lowry, P. P., II. 2001. A Re-assessment and Update of Priority Endemic Plant Species At Mandena, Region of Tolagnaro, Madagascar. Prepared for QMM – Madagascar Minerals, Montreal Quebec.
8. Andriamahefarivo, L., P. P. Lowry II and P. B. Phillipson. 2005. Environmental Impact Assessment Study – Flora. Ambatovy/Analamay Area, Madagascar. Prepared for Golder Associates Ltd., Calgary Alberta.
9. Walters, G., J. S. Miller and P. P. Lowry II. 2005. The Herbario Nacional de Guinea Ecuatorial: Current status and prospects for contributing to the conservation and natural resource management of Central Africa. Prepared for the Instituto Nacional de Desarrollo Forestal (INDEFOR) and Conservation International.
10. Aronson, J., P. P. Lowry II, F. Raharimalala, D. J. Tongway, P. Lavelle and P. O. Berner. 2006. Restoring and Reintegrating the Ambohilero Forest following uncontrolled, industrial logging and road building. Prepared for the Government of Madagascar and Conservation International.
11. Lowry, P. P., II, L. Andriamahefarivo and P. B. Phillipson. 2006. Environmental Impact Assessment Study: Flora. Ambatovy/Analamay Area, Madagascar. Prepared for Dynatec Corp.
12. Birkinshaw, C., P. P. Lowry II and L. Andriamahefarivo. 2009. Evaluation of the mitigation strategy for plant “Species of Concern” impacted by mining activities at the Ambatovy/Analamay mine site. Prepared for the Ambatovy Project, Madagascar.

#### GRANTS AND CONTRACTS RECEIVED

1978. Sigma Xi Grant-in-Aid of Research. Biosystematic investigations, field observations, and population sampling of *Osmorhiza* (Apiaceae) in eastern Canada.
1978. Illinois State Academy of Science Research Grant. Chemosystematic studies in *Osmorhiza* (Apiaceae): leaf flavonoids and soluble seed proteins.
1980. Research Grant, Endangered Species Office, U.S. Fish and Wildlife Service. Detailed field study of the known populations of *Osmorhiza mexicana* ssp. *bipatriata*.
1984. National Science Foundation Doctoral Dissertation Improvement Grant. Biosystematics of New Caledonian Araliaceae. (with Peter H. Raven).
1985. American Society of Plant Taxonomists Herbarium Travel Award. A taxonomic revision of Hawaiian Araliaceae: a proposal to study material at four major east coast herbaria.
1987. National Geographic Society Research Grant. Field studies of Araliaceae in Madagascar and the Comoro Islands.
1988. W. Alton Jones Foundation. Core support for the Missouri Botanical Garden's research and conservation program in Madagascar.
1988. Worldwide Fund For Nature Grant. Purchase of microcomputers for a Conservation Data Center in Madagascar.
1988. National Science Foundation. Linnaean plant typification project (with James L. Reveal).
1988. U.S. Agency for International Development (Madagascar Office), Operational Program Grant. An integrated program for rural development, conservation of biological diversity, and field-based training on the Masoala Peninsula, NE Madagascar.
1989. QIT - Fer et Titane, Inc., Montreal, Quebec, Canada. Flora and vegetation study (late flowering season) of the Mandena Mine Site, region of Tolagnaro, Madagascar. Phase 1.
1989. QIT - Fer et Titane, Inc., Montreal, Quebec, Canada. Flora and vegetation study (early flowering season) of the Mandena Mine Site, region of Tolagnaro, Madagascar. Phase 2.
1990. World Wildlife Fund Grant. An integrated program for rural development, conservation of biological diversity, and field-based training on the Masoala Peninsula, NE Madagascar.
1990. World Wildlife Fund Grant. Improvement of teaching curricula and development of a two-year plan for the conservation education section, Parc Botanique et Zoologique de Tsimbazaza, Antananarivo, Madagascar (with Bodo Randrianasolo).

1990. World Wildlife Fund Grant. Production of a Guide to the Trees and Shrubs of southern and southwestern Madagascar (with Peter B. Phillipson and Voara Randrianasolo).
1990. John D. and Catherine T. MacArthur Foundation. Botanical training and inventory work of key protected areas in support of biodiversity conservation in Madagascar.
1990. John D. and Catherine T. MacArthur Foundation. Core Support for Conservation and Environmental Education Activities at the Parc Botanique et Zoologique de Tsimbazaza, Antananarivo, Madagascar (with Voara Randrianasolo).
1990. W. Alton Jones Foundation. Continued core support for the Missouri Botanical Garden's Madagascar Research and Conservation Program.
1990. World Wildlife Fund Grant. Support for two Malagasy participants at the ICSEB-IV Madagascar Conservation Symposium.
1990. QIT - Fer et Titane, Inc., Madagascar Minerals Project, Montreal, Quebec, Canada. Flora and vegetation follow-up study of the Mandena Mine Site, region of Tolagnaro, Madagascar.
1991. World Wide Fund for Nature Grant. Improvement of horticultural practices, Parc de Tsimbazaza, Madagascar (with M. Spargur and V. Randrianasolo).
1991. U.S. National Science Foundation. A conspectus of the vascular plants of Madagascar (with G. E. Schatz).
1991. Liz Claiborne and Art Ortenberg Foundation. Botanical inventory of Ranomafana National Park, Madagascar (with G. E. Schatz).
1991. Liz Claiborne and Art Ortenberg Foundation. Support for graduate training for Armand Randrianasolo, Botany Section, Parc de Tsimbazaza.
1992. U.S. National Science Foundation. Continued support for the Linnaean plant name typification project (with J. L. Reveal and F. R. Barrie).
1992. U.S. Agency for International Development (SAVEM Grant Management Unit, Madagascar). Masoala Peninsula integrated conservation and development project. Phase I (with CARE-Madagascar, DEF and SAFAFI).
1993. Liz Claiborne and Art Ortenberg Foundation. Botanical training in support of conservation activities in Madagascar.
1993. W. Alton Jones Foundation. Continued core support for the Missouri Botanical Garden's Madagascar Research and Conservation Program.
1994. Biodiversity Support Program. Assessment of biodiversity and conservation of east coast Malagasy rain forests (with R. Rabevohitra and G. E. Schatz).
1994. U.S. National Science Foundation. Group dynamics, reproduction success and habitat utilization in chimpanzees and baboons, Gombe Stream, Tanzania (with A. Pusey, C. Packer and others).
1995. U.S. Agency for International Development. Kibale National Park biological field station project, Uganda (with the Consortium for International Development).
1995. John D. and Catherine T. MacArthur Foundation. Botanical training in Madagascar: support for an 18-month intensive field botany course.
1995. John D. and Catherine T. MacArthur Foundation. An integrated botanical training program in Tanzania.
1995. World Bank and Government of the Republic of Congo. Projet d'Appui Technique au Laboratoire de Botanique du Centre d'Etudes sur les Ressources Végétales (CERVE).
1996. Liz Claiborne and Art Ortenberg Foundation. An integrated botanical training program in Tanzania.
1996. U.S. National Science Foundation. Conspectus of the vascular plants of Madagascar -- Phase II (final) (with G. E. Schatz).
1996. U.S. Department of Agriculture, Federal Assistance Program. Central Africa herbaria workshop and field survey.
1998. QMM, Montreal, Quebec, Canada. Review of the MIR 1997 regional deforestation study and the current and planned QMM Conservation and Rehabilitation Program in the area of Fort-Dauphin (Tolagnaro), Madagascar.
1998. Golder Associates, Inc. Taxonomic identifications and verifications of plant specimens from the Ambatovy-Analamay area, Madagascar.
1998. Liz Claiborne and Art Ortenberg Foundation. Core support for Missouri Botanical Garden's Madagascar Program.
1999. John D. and Catherine T. MacArthur Foundation. Integrated botanical training activities in Madagascar and Tanzania.
2000. U.S. National Science Foundation. Phylogeny and diversification of Araliales (with G. M. Plunkett).
2000. QMM, Montreal, Quebec, Canada. Flora update study of the littoral forest ecosystem in the Mandena area, region of Fort-Dauphin (Tolagnaro), Madagascar.

2000. John D. and Catherine T. MacArthur Foundation. Application of Botanical Information to Conservation Planning in New Caledonia.
2001. U.S. National Science Foundation. A botanical survey of Madagascar's endangered littoral forest (with G. D. McPherson and G. E. Schatz).
2001. National Geographic Society. Towards a *Flora Antongilensis* (with G. E. Schatz).
2001. Liz Claiborne and Art Ortenberg Foundation. Continued support for Missouri Botanical Garden's Madagascar Research and Conservation Program.
2001. Critical Ecosystem Partnership Fund. Assessment of Priority Areas for Plant Conservation in Madagascar.
2002. Liz Claiborne and Art Ortenberg Foundation. Continued support for Missouri Botanical Garden's Madagascar Research and Conservation Program.
2002. Critical Ecosystem Partnership Fund. Mapping the Vegetation of Madagascar (with P. Smith, Royal Botanic Gardens, Kew).
2003. John D. and Catherine T. MacArthur Foundation. Building National Capacity for Plant Conservation Assessment and Action in Madagascar.
2003. The Andrew W. Mellon Foundation. Types of African Plants (TAP) Initiative. Participation of the Missouri Botanical Garden (2004) (with P. B. Phillipson).
2004. National Geographic Society. Botanical inventory of the Kouakoué massif, an isolated, exceptionally rich mountain area in SE New Caledonia (with J. Munzinger & G. McPherson).
2004. National Geographic Society. Botanical Inventory of the Kalambatritra Massif, Madagascar.
2004. The Andrew W. Mellon Foundation. Catalogue of the Vascular Plants of Madagascar (with P. B. Phillipson and G. E. Schatz).
2005. The Andrew W. Mellon Foundation. African Plants Initiative (API): Digital Images of Malagasy Plants Project (with P. B. Phillipson and J.-N. Labat).
2005. The Andrew W. Mellon Foundation. Catalogue of the Vascular Plants of Madagascar, Year 2 (with P. B. Phillipson and G. E. Schatz).
2005. Conservation International – Madagascar. Repairing Didy Forest: A Call to Action. Assessment of the current status of the Didy Forest following illegal road construction and design of an integrated restoration program to repair the resulting damage (with J. Aronson).
2006. U.S. National Science Foundation. Tackling *Schefflera*: initiating the re-circumscription of the largest genus in Araliaceae (with G. M. Plunkett).
2007. Richard and Rhoda Goldman Fund. Orphan conservation sites in Madagascar: filling key gaps to ensure a comprehensive network of protected areas (with G. E. Schatz).
2007. The Andrew W. Mellon Foundation. Continued support of the Catalogue of the Vascular Plants of Madagascar Project (with P. B. Phillipson and G. E. Schatz).
2007. Golder Associates, Inc. Identification of Priority Plant Species for a Social and Environmental Impact Assessment Study of the Proposed Petaquilla Mine Site, Panama.
2007. John D. and Catherine T. MacArthur Foundation. The Effects of Global Climate Change on the Plants of Madagascar: Detecting Changes, Projecting Impacts, and Developing Responses (with G. E. Schatz).
2007. U.S. National Science Foundation. Vahinala Project: A Catalogue of the Vascular Plants of Madagascar (with G. E. Schatz).
2008. Ambatovy Mine Project. Flora Species Extinction Avoidance Program: Species of Concern Management 2008 (with L. Andriamahefarivo and P. B. Phillipson).
2008. The Andrew W. Mellon Foundation. Continued support of the Catalogue of the Vascular Plants of Madagascar Project (with P. B. Phillipson and G. E. Schatz).

#### SYMPOSIA AND WORKSHOPS ORGANIZED

1990. Conservation in Evolutionary Perspective: Madagascar, a New Arena. Fourth International Congress of Systematic and Evolutionary Biology, College Park, Maryland, July 7.
1997. Development of African herbaria. XV AETFAT Congress, Harare, Zimbabwe, February 3 (with Brian Huntley).
2003. Conservation and Sustainable Use of African Plants. XVII AETFAT Congress, Addis Ababa, Ethiopia, September 21-26 (with Paul P. Smith).
2005. La Restauration écologique: un élément clé pour le développement durable et pour la conservation de la biodiversité à Madagascar. Workshop, Antananarivo, Madagascar, March 24 (with J. Aronson and S. Andriambololonera).

2005 Apiales V – The Fifth International Symposium on the Systematics of Apiales. University of Vienna, Austria, July 24-26.

#### TALKS AND INVITED PAPERS

1. Endemism and diversity in the New Caledonian flora. Smithsonian Institution, October 1; New York Botanical Garden, Bronx, New York, October 7; Bailey Hortorium, Cornell University, Ithaca, New York. October 14, 1985.
2. The evolution of endemism in New Caledonia. Bishop Museum, Honolulu, November 12; University of the South Pacific, Suva, Fiji. November 21, 1985.
3. The Missouri Botanical Garden's contract with the National Cancer Institute and botanical research program in Madagascar. Missouri Baptist Hospital, St. Louis, Missouri. June 10, 1987.
4. Botany and phytogeographic history of Madagascar. Jersey Wildlife Preservation Trust, Jersey, Channel Islands. February 12, 1988.
5. Le rôle des jardins botaniques dans l'inventaire et la protection de la flore tropicale: exemple de la flore malgache. Symposium sur les jardins botaniques de demain, Paris. June 2, 1988.
6. Evolutionary patterns in the flora and vegetation of New Caledonia. Symposium on Evolution in Island Archipelagoes: The Emerging Picture. Fourth International Congress of Systematic and Evolutionary Biology, College Park, Maryland. July 6, 1990.
7. Botanical research and conservation in Madagascar. Berry Botanical Garden, Portland, Oregon. August 7, 1990.
8. Do we really know as much as we think about the flora of the Africa-Madagascar region? XV International Botanical Congress, Yokohama, Japan (with Ph. Morat). 1993.
9. Natural and anthropogenic vegetation types in Madagascar. Natural and human-induced change in Madagascar, Field Museum of Natural History, Chicago (with G. E. Schatz). June 3, 1995
10. La végétation naturelle et anthropique de Madagascar. Académie Malgache, Antananarivo, Madagascar. November 16, 1995.
11. Diversity, endemism, and extinction in the flora of New Caledonia. Intl. Symposium on Rare, Threatened, and Endangered Floras of Asia and the Pacific, Academia Sinica, Taipei, Taiwan. May 1, 1996.
12. Madagascar: its origin, people, animals, plants, and the Missouri Botanical Garden's research and conservation program. Missouri Botanical Garden. June 27, 1996.
13. Madagascar: a remarkable flora on the verge of extinction. Academia Sinica, Nankang, Taiwan. September 8, 1998.
14. Evolution of early lineages in Apiales: insights from morphology, wood anatomy and molecular data (with G. M. Plunkett and A. A. Oskolski). XVI Intl. Botanical Congress, St. Louis, Missouri. August 3, 1999.
15. Biogeography and conservation status in Madagascar's endemic plant families (with C. R. Birkinshaw, G. E. Schatz, F. Randriantafika and F. Ratovoson). II Intl. Symposium on the Biogeography of Madagascar, Paris. August 31, 1999.
16. Espèces appartenant aux familles des plantes endémiques de Madagascar: systématique, biogéographie, écologie, et risque d'extinction. Parc Botanique et Zoologique de Tsimbazaza, Antananarivo, Madagascar. December 9, 1999.
17. Endemic plant families of Madagascar: integrating taxonomy and conservation. Botany 2000 (annual meetings of the Botanical Society of America and the American Society of Plant Taxonomists), Portland, Oregon, USA. August 8, 2000.
18. Biogéographie et relations évolutives des Araliaceae Malgaches. 40<sup>th</sup> Anniversary Meeting, Faculty of Science, Univ. of Antananarivo, Madagascar. September 21, 2000.
19. Les produits utiles de la recherche taxonomique moderne. Workshop on the "Flore du Gabon", Libreville, Gabon. November 15, 2001.
20. Phylogeny of Araliaceae, Part II: inter- and intrageneric relationships (with G. M. Plunkett and J. Wen). 4<sup>th</sup> International Apiales Symposium, Pretoria, South Africa, January 6, 2003
21. Discovery of a new dioecious genus of Cunoniaceae from New Caledonia (with G. McPherson, P. Sweeney and J. Bradford). Joint South African Assoc. of Botanists and Intl. Soc. Ethnopharmacology Conference, Pretoria, South Africa, January 8, 2003.
22. Rediscovering lost species: the application of botanical data to assessing priority areas for plant conservation (with G. E. Schatz, Sylvie Andriambololona Jeannie Randriampionona). Botanical Research Institute of Texas, Ft. Worth, April 30, 2003
23. Madagascar, a botanical paradise in peril. "The Last Wild Places and Hotspots of the World" Distinguished Lecturer Series, Botanical Research Institute of Texas and Ft. Worth Botanic Garden, Texas, May 1, 2003.
24. Phylogeny of Araliaceae, Part II: inter- and intrageneric relationships (with G. M. Plunkett and J. Wen). Missouri Botanical Garden, August 18, 2003.

25. Red listing and plant conservation. (with G. E. Schatz, S. Andriambololona and J. Randriampionona). XVII AETFAT Congress, Addis Ababa, Ethiopia, September 23, 2003.
26. Araliaceae in Africa and Madagascar: major taxonomic changes resulting from recent phylogenetic studies (with G. M. Plunkett, and J. Wen). XVII AETFAT Congress, Addis Ababa, Ethiopia, September 25, 2003.
27. Narrow endemism and its bearing on conservation in the floras of Madagascar and New Caledonia (with G. E. Schatz). XVII Intl. Botanical Congress, Vienna, Austria, July 22, 2005.
28. Breaking up is hard to do: a road map to generic realignments in *Polyscias* s. lat. and *Schefflera* s. lat. (Araliaceae)(with G. M. Plunkett). 5<sup>th</sup> Apiales Symposium, Vienna, Austria, July 26, 2005.
29. Collections et Observations, Données primaires, Accessibilité et Exploitation: Enjeux scientifiques et Défis. GBIF France launch meeting, Paris, France, June 27, 2006.
30. The Missouri Botanical Garden's Madagascar Program: from plant collecting to a multi-dimensional program. New York Botanical Garden, May 21, 2007.
31. Novel ways to present and disseminate taxonomic information: lessons learned from the Missouri Botanical Garden's Madagascar Program. New York Botanical Garden, May 21, 2007.
32. Can the imperatives of environmental conservation and sustainable economic development be reconciled? Lessons from Madagascar. African Issues Symposium: Food security, environmental sustainability and human health. Kansas State University, Manhattan, Kansas, March 31, 2009.

## REVIEWS

Over 135 manuscripts reviewed for the following journals: *Adansonia*; *American Journal of Botany*; *Annals of the Missouri Botanical Garden*; *Australian Journal of Botany*; *Australian Systematic Botany*; *Biodiversity and Conservation*; *Botanical Journal of the Linnean Society*; *Botanische Jahrbücher für Systematik, Pflanzengeschichte und Pflanzengeographie*; *Brittonia*; *Canadian Journal of Botany*; *Candollea*; *Conservation Biology*; *Development in Practice*; *Edinburgh Journal of Botany*; *Fieldiana Botany*; *Kew Bulletin*; *Madagascar Conservation and Development*; *Molecular Ecology*; *Molecular Phylogenetics and Evolution*; *Novon*; *Oryx*; *Plant Systematics and Evolution*; *South African Journal of Botany*; *Systematic Botany*; *Taxon*, *Trends in Plant Science*.

Over 45 grant proposals reviewed for: U.S. National Science Foundation, National Geographic Society Committee for Research and Exploration, Belgian Fund for Scientific Research, Swiss Commission for Scientific Research, Swiss National Science Foundation, Sigma Xi, American Philosophical Society, etc.

## OUTSIDE REVIEWS FOR TENURE OR PROMOTION

Dr. Gregory M. Plunkett, Virginia Commonwealth University, Richmond, Virginia, USA (2002 and 2007).  
 Dr. Daniel K. Harder, University of California, Santa Cruz, California, USA (2004).  
 Dr. Jun Wen, Smithsonian Institution, Washington, D.C., USA (2007).

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