

CURRICULUM VITAE

Personal: Roy Emile Gereau, born 5 December 1947, Rock Island, Illinois, U.S.A.

Education and Degrees: B.A., mathematics and French, University of Iowa, 1969 (graduation with Highest Distinction); B.S., forestry, Michigan Technological University, 1975 (graduation with Highest Distinction); M.S., biological sciences, Michigan Technological University, 1978 (graduation with Highest Distinction).

Professional and Scholastic Positions: Teaching Assistant, Department of Mathematical and Computer Sciences, Michigan Technological University, 1975-1977; Instructor, Department of Mathematical and Computer Sciences, Michigan Technological University, 1977-1978; Instructor, Department of Biological Sciences, Michigan Technological University, summer terms 1977 and 1978 (vascular plant taxonomy); Teaching Assistant, Department of Botany and Plant Pathology, Michigan State University, spring terms 1979 and 1981; Herbarium Assistant, Beal-Darlington Herbarium, Department of Botany and Plant Pathology, Michigan State University, 1978-1983; Curatorial Assistant, Missouri Botanical Garden, St. Louis, Missouri, 1983-2005; Assistant Curator, Missouri Botanical Garden, St. Louis, Missouri, April 2005-present.

Editorial Positions: Consulting Editor, *Novon*; Member of Editorial Committee, *Annals of the Missouri Botanical Garden*; Member of Reviewer Panel, *African Journal of Ecology*

Awards: Sigma Xi Grant-in-Aid of Research, 1979; National Science Foundation Doctoral Dissertation Improvement Award DEB-8010849, 1980; National Geographic Society, Lake Nyasa Climatic Region Vegetation Survey, 1990; National Geographic Society, Millenium Transect, 2001; National Geographic Society, Plant Biodiversity Inventory of the Rubeho Mountains, Tanzania, 2005; Critical Ecosystem Partnership Fund, Plant Conservation Assessment in the Eastern Arc Mountains and Coastal Forests of Tanzania and Kenya Biodiversity Hotspot, 2005; Liz Claiborne Art Ortenberg Foundation, Conserving Biodiversity along the Kenya-Tanzania Border in the Face of Climate Change, 2008; Liz Claiborne Art Ortenberg Foundation, Conserving Ecosystem Diversity and Livelihoods: Climate Change, Plant Biodiversity and Protected Areas in East Africa, 2009 .

Membership in Professional Organizations: American Association for the Advancement of Science, American Museum of Natural History, Association of Systematics Collections, , Botanical Society of America, International Association for Plant Taxonomy, Missouri Native Plant Society, Sigma Xi, Wildlife Conservation Society of Tanzania, Nature Kenya, IUCN Species Survival Commission - Eastern Africa Plant Red Listing Authority.

Foreign Languages: French, Spanish, and Swahili: fluent reading, writing and conversation; Russian: limited reading; Latin: fluent technical reading and writing.

Field Experience: Plant collecting and biological inventory work in Cameroon (1993, 1994), Congo Republic (1991), Costa Rica (1989, 2002), Democratic Republic of Congo (1992, 1994), Ethiopia (1984), Guatemala (1980, 1986), Kenya (1994, 2003), Madagascar (1989, 1995), Mexico (1979, 1980, 1986), Tanzania (1984-1985, 1988-1989, 1990-1991, 1992, 1993-1994,

1996, 1997-1998, 1999, 2000, 2001, 2005, 2006, 2008), Uganda (1998).

Research Interests: floristics and phytogeography of eastern Africa; plant conservation assessments in eastern Africa; systematics of Ancistrocladaceae; taxonomy of African Mimosaceae and Sapindaceae; taxonomy of Sapindales and clarification of family circumscriptions; collaborative studies in ethnobotany and archaeology.

Aviation: U.S. Private Pilot Certificate No. 561748670, Airplane Single Engine Land, Instrument.

Publications:

An interactive program for teaching carbon labeling in photosynthesis written in ASCII PLI. Proceedings, Eighth Conference on Computers in the Undergraduate Curricula: 7-II. 1977.

Calculus for the life sciences (Textbook supplement and biological examples for course sequence of same name.) Michigan Technological University Technical Report No. MA-78-1. 139 pp. 1978.

Bryophytes of Mount Lookout, Keweenaw County, Michigan. Michigan Bot. 19: 247-250. 1980. [with J. M. Glime & J. F. Gereau].

Pest management in herbaria. Herbarium News 4: 21-23. 1984. [with R. L. Robbins].

Eurasian introductions to the Michigan flora. I. Michigan Bot. 23: 39-46. 1984. [with R. K. Rabeler].

Eurasian introductions to the Michigan flora. II. Michigan Bot. 23: 51-56. 1984. [with R. K. Rabeler].

A contribution to Bontoc ethnobotany. Econ. Bot. 42: 307-369. 1988. [with C. C. Bodner].

Book review: Flora of Australia, Volume 45. Ann. Missouri Bot. Gard. 75: 1167. 1988.

Grasses of Missouri: an annotated checklist. Missouriensis 8: 49-70. 1988.

Three new species of *Bomarea* (Alstroemeraceae) from Mesoamerica. Ann. Missouri Bot. Gard. 76: 598-601. 1989.

Notes on the floral morphology and ecology of *Margaritaria discoidea* (Euphorbiaceae) in Tanzania. Ann. Missouri Bot. Gard. 77: 217-218. 1990. [with J. C. Lovett].

Achuaria, nuevo género de Rutaceae, con una sinopsis de las Cuspariinae peruanas. Candollea 45: 363-372. 1990.

Matayba macrocarpa (Sapindaceae), nueva especie de la Amazonía peruana. Candollea 45: 373-378. 1990.

Peltostigma parviflorum (Rutaceae), nueva especie de Costa Rica y Colombia. Ann. Missouri Bot. Gard. 78: 527-530. 1991. [with Q. Jiménez M.].

El género *Amyris* (Rutaceae) en América del Sur, con dos especies nuevas de la Amazonía occidental. Candollea 46: 227-235. 1991.

Bomarea albimontana (Alstroemeraceae), a new species from high Andean Peru. Candollea 46: 503-508. 1991. [with D. N. Smith].

Moraea callista (Iridaceae) in the southern highlands of Tanzania. Kew Mag. 8: 194-197. 1991. [with J. C. Lovett].

New combinations in *Hippeastrum*, *Ismene*, and *Leptochiton* (Amaryllidaceae) for the flora of Peru. Novon 3: 28-30. 1993. [with A. W. Meerow & L. Brako].

- The identity of *Tetragonia horrida* Britton. *Taxon* 42: 411-412. 1993.
- Inga* (Fabaceae), Plantaginaceae, Rosaceae, Sapindaceae. *In*: L. Brako & J. L. Zarucchi (eds.), Catalogue of the Flowering Plants and Gymnosperms of Peru. Monogr. Syst. Bot. Missouri Bot. Gard. 45: 481-486, 923-925, 1003-1010, 1059-1068. 1993.
- Ancistrocladus korupensis* (Ancistrocladaceae), a new species of liana from Cameroon. *Novon* 3: 494-498. 1993. [with D. W. Thomas].
- Alstroemeriaceae. *In*: G. Davidse, M. Sousa S. & A. O. Chater (eds.), *Flora Mesoamericana* 6: 48-51. Universidad Nacional Autónoma de México, Missouri Botanical Garden and The Natural History Museum (London). 1994.
- Vegetation and phytogeography of the Kitulo Plateau, southern Tanzania. Pp. 1025-1041. *In*: J. H. Seyani & A. C. Chikuni (eds.), Proceedings of the XIIIth Plenary Meeting of AETFAT, Zomba, Malawi, 2-11 April 1991. National Herbarium and Botanic Gardens of Malawi, Zomba. 1994. [with J. C. Lovett & K. J. Sidwell].
- Una nueva *Froesia* (Quiinaceae) de la Amazonía occidental. *Novon* 4: 246-249. 1994. [with R. Vásquez].
- Sustainable harvest of *Ancistrocladus korupensis* (Ancistrocladaceae) leaf litter for research on HIV. *Econ. Bot.* 48: 413-414. 1994. [with D. W. Thomas, M. R. Boyd, J. H. Cardellina, J. Jato & P. Symonds].
- A new combination in *Peltostigma* (Rutaceae). *Novon* 5: 34-35. 1995.
- Polycarpon coquimbense* (Caryophyllaceae), a new species from the Norte Chico of Chile. *Novon* 5: 152-155. 1995. [with C. Marticorena].
- Current and potential areas of collaboration between the Missouri Botanical Garden and Tanzanian botanical institutions. Pp. 6-10. *In*: J. S. Miller & R. E. Gereau (eds.), Strategy Conference on the Development of Botanical Collections in Tanzania. 1996. Missouri Botanical Garden.
- Typification of names in *Ancistrocladus* Wall. (Ancistrocladaceae). *Novon* 7: 242-245. 1997.
- Encephalartos ituriensis* (Zamiaceae): an emended description. *Adansonia*, sér. 3, 20: 211-216. 1998. [with P. Vorster].
- A new combination in *Tarenna* (Rubiaceae) from Central Africa. *Novon* 8: 140. 1998.
- A revision of the Malagasy endemic genus *Chouxia* Capuron (Sapindaceae). *Adansonia*, sér. 3, 21: 51-62. 1999. [with G. E. Schatz & P. P. Lowry II].
- Agavaceae, Alliaceae, Anthericaceae, Asparagaceae, Asphodeloaceae, Asteliaceae, Dracaenaceae, Melanthiaceae, Phormiaceae. *In*: P. M. Jørgensen & S. León-Yáñez (eds.), Catalogue of the Vascular Plants of Ecuador. Monogr. Syst. Bot. Missouri Bot. Gard. 75: 200, 202, 216-217, 260, 440, 561, 784. 1999.
- Book review: *Mistletoes of Africa*, by Roger Polhill & Delbert Wiens. *Ann. Missouri Bot. Gard.* 86: 775-776. 1999.
- What does *Encephalartos ituriensis* really look like? *Encephalartos* 58: 11-18. 1999. [with P. Vorster].
- Therapeutic potential of plant-derived compounds: realizing the potential. Pp. 25-37. *In*: S. O. Cutler & H. G. Cutler (eds.), *Biologically Active Natural Products: Pharmaceuticals*. CRC Press, New York. 1999. [With J. S. Miller].
- Le genre *Uvariopsis* (Annonaceae) en Afrique tropical, avec une espèce nouvelle du Cameroun.

- Adansonia, sér. 3, 22: 39-43. 2000. [with D. Kenfack].
- Aizoaceae, Aloaceae, Basellaceae, Bataceae, Chenopodiaceae, Liliaceae, Molluginaceae, Portulacaceae. *In*: W. D. Stevens, C. Ulloa Ulloa, A. Pool & O. M. Montiel (eds.), Flora de Nicaragua. Monogr. Syst. Bot. Missouri Bot. Gard. 85: 48-49, 56, 395-397, 603-604, 1219-1228, 1507-1508, 2180-2183. 2001.
- New names in African Celastraceae and Rutaceae. *Novon* 11: 43-44. 2001.
- Nomenclatural Clarifications in *Aristea* Sect. *Racemosae* (Iridaceae) in the Cape Flora of South Africa. *Novon* 12: 190-195. 2002. [with P. Goldblatt & J. C. Manning].
- Chamaecrista mwangokae* (Fabaceae, Caesalpinioideae), a new species from the Southern Highlands of Tanzania. *Novon* 13: 438-442. 2003. [with G. M. Walters].
- The genus *Uvariopsis* (Annonaceae) in tropical Africa, with a recombination and one new species from Cameroon. *Novon* 13: 443-449. 2003. [with D. Kenfack, G. Gosline & G. E. Schatz].
- List of potentially threatened plants in the Eastern Arc Mountains and East African Coastal Forest Mosaic Biodiversity Hotspot of Kenya and Tanzania, prepared for the Critical Ecosystem Partnership Fund. <http://cabs.kms.conservation.org/WOMBAT>. 2003. [with W. R. Q. Luke].
- Eastern Afromontane. Pp. 240-243. *In*: R. A. Mittermeier, R. Robles G., M. Hoffmann, J. Pilgrim, T. Brooks, C. G. Mittermeier, J. Lamoreux & G. A. B. Da Fonseca, Hotspots Revisited. CEMEX. 2004. [with T. Brooks, M. Hoffmann, N. Burgess, A. Plumptre, S. Williams, R. A. Mittermeier & S. Stuart].
- Crotalaria mwangulangoi* (Fabaceae, Faboideae), a new species from the Udzungwa Mountains, Tanzania. *Novon* 15: 286-289. 2005. [with S. Bodine].
- A new species of *Rytigynia* (Rubiaceae, Vanguerieae) from northeastern Tanzania, with notes on the circumscription of the genus. *Novon* 15: 315-318. 2005. [with H. Lantz].
- Inga* Mill. *In*: A. Rudas L. & A. Prieta C., Flórula del Parque Nacional Natural Amacayacu, Amazonas, Colombia. Monogr. Syst. Bot. Missouri Bot. Gard. 99: 210-240. 2005.
- Revision of *Ancistrocladus* Wall. (Ancistrocladaceae). *Ann. Missouri Bot. Gard.* 92: 360-399. 2005. [with C. M. Taylor & G. M. Walters].
- Endemic plant species of the Eastern Arc Mountains of Kenya and Tanzania: analysis and refinement of distributional patterns. Pp. 267-277 *in*: S. A. Ghazanfar & H. J. Beentje (eds.), Taxonomy and Ecology of African Plants, their Conservation and Sustainable Use. Proceedings of the 17th AETFAT Congress, Addis Ababa, Ethiopia. Royal Botanic Gardens, Kew. 2006. [with C. M. Taylor & W. R. Q. Luke].
- Field Guide to the Moist Forest Trees of Tanzania. Critical Ecosystem Partnership Fund, Centre for Ecology, Law, & Policy & Frontier-Tanzania. 2006. [with J. C. Lovett, C. K. Ruffo & J. D. Taplin].
- Description of four new species of *Monodora* and *Isolona* (Annonaceae) from Tanzania and an overview of Tanzanian Annonaceae diversity. *Adansonia*, sér. 3, 28: 243-266. 2006. [with T. L. P. Couvreur, J. J. Wiersema & J. E. Richardson].
- Ancistrocladaceae. *In*: Wu Zhengyi, P. H. Raven & Hong Deyuan (ed. comm.), Flora of China 13: 208. Science Press, Beijing & Missouri Botanical Garden Press, St. Louis. 2007.

- [with Wang Yinzheng].
Objectifs et priorités pour la conservation des oiseaux et de la biodiversité d'Afrique. *Ostrich* 78: 115-126. 2007. [with T. Brooks, L. Andriamaro, F. Hawkins, K. Howell, D. Knox, P. Langhammer, J. F. Lamoreux, P. P. Lowry II, W. R. Q. Luke, P. Matiku, M. W. McKnight, C. Msuya, R. Mugo, H. Rabarison, Z. L. Rakotobe & H. Randrianasolo].
Two new species of *Babiana* (Iridaceae: Crocoideae) from western South Africa, new names for *B. longiflora* and *B. thunbergii*, and comments on the original publication of the genus. *Bothalia* 38: 49-55. 2008. [with P. Goldblatt & J. C. Manning].
Conservation implications of deforestation across an elevational gradient in the Eastern Arc Mountains, Tanzania. *Biol. Cons.* 142: 2510-2521. 2009. [with J. Hall, N. Burgess, J. Lovett & B. Mbilinyi].
Plant conservation assessment in East Africa: procedures and first results. *In*: X. van der Burgt, J. van der Maesen & J.-M. Onana (eds.), *Systematics and Conservation of African Plants. Proceedings of the 18th AETFAT Congress, Yaoundé, Cameroon*. [in press]. [with W.R. Quentin Luke, W. Kindeketa, S. Bodine & G.E. Schatz].
Using fine-scale distribution models to refine inventory-based estimates of conservation priority: a case study in the Eastern Arc Mountains, Tanzania and Kenya. *Diversity & Distrib.* [submitted]. [with P. J. Platts, A. Ahrends, C. J. McClean, J. C. Lovett, A. R. Marshall, P. K. E. Pellikka, E. Fanning & R. Marchant].
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New species of *Aidia* and *Polysphaeria* (Rubiaceae) from East Africa. *Novon*. [submitted]. [with S. E. Dawson].
Lake Nyasa Climatic Region floristic checklist. *Monogr. Syst. Bot. Missouri Bot. Gard.* [accepted, in production]. [with A. R. Kajuni, T. R. B. Davenport & H. J. Ndangalasi].
Gombe National Park. Accepted for publication in *Monogr. Syst. Bot. Missouri Bot. Gard.* [with D. A. Collins, F. M. Mbago, G. Gobbo & C. J. Kayombo].
An introduction to the forest ecology and a species list of vascular plants of the Réserve de Faune à Okapis, Ituri Forest, Democratic Republic of Congo. Accepted for publication in *Monogr. Syst. Bot. Missouri Bot. Gard.* [with T. B. Hart, C. Ewango, I. Liengola, A. D. Poulsen & J. A. Hart].

In preparation:

- Clave práctica de las especies colombianas de *Inga* (Mimosaceae).
A revision of the Malagasy endemic genus *Beguea* Capuron (Sapindaceae). [with G. E. Schatz].
The genus *Allophylus* L. (Sapindaceae) in Madagascar. [with G. E. Schatz].
El género *Matayba* (Sapindaceae) in el Perú.

Encyclopedia Articles:

Bluebonnet, Cattail, Horsetail, Lespedeza, Peony, Petunia, Poppy, Shamrock. The World Book
Encyclopedia 2: 423; 3: 305, 9: 369; 12: 208; 15: 276, 351, 668-669; 17: 371.

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