

TROPICAL BOTANY

The Kampong of the National Tropical Botanical Garden, in collaboration with Florida International University, the International Center for Tropical Botany, Fairchild Tropical Botanic Garden, and the Montgomery Botanical Center, will offer an intensive, in-residence course/workshop on the systematics of tropical plants, in Coconut Grove, Florida, from May 21 – June 18, 2017.

Instructors: **Walter Judd** (Dept. Biology, 220 Bartram Hall, PO Box 118525, Univ. of Florida, Gainesville, FL 32611-8525; e-mail: lyonia@ufl.edu; phone: 352-273-1983). **Christopher Baraloto** (International Center for Tropical Botany, Dept. of Biological Sciences, Florida International Univ., 11200 SW 8th St., OE 243, Miami, FL 33199; e-mail: cbaralot@fiu.edu); **Lucas Majure** (Desert Botanical Garden, 1201 N Galvin Pkwy., Phoenix, AZ 85008; e-mail: lmajure@dbg.org), In addition, **Scott Zona** (F.I.U.) will present the lecture and lab on Arecaceae.

The Course: Tropical Botany is an intensive course of study in the biology and systematics of tropical plants. Subject matter will be largely based on the extensive holdings of tropical vascular plants at Fairchild Tropical Botanic Garden, The Kampong of the National Tropical Botanical Garden, and the Montgomery Botanical Center. These gardens have the largest living collections of tropical plants in the United States. Additionally, field trips will be made to the Florida Everglades, the Florida Keys, and adjacent natural areas. The natural vegetation of South Florida, which includes littoral and dry land habitats, mixed tropical hardwood hammocks, pinelands, and mangrove communities, will introduce students to the diversity of tropical vegetation. The object of the course is to provide advanced students and/or professionals with a detailed coverage of the systematics, phylogeny, diversity of structure, economic botany and conservation of tropical seed plants. Questions concerning the course should be addressed to Dr. Judd or Dr. Baraloto.

Credit-hours: Tropical Botany is taught as a workshop sponsored by The Kampong of the National Tropical Botanical Garden and the International Center for Tropical Botany, with the collaboration of Fairchild Tropical Garden and the Montgomery Botanical Center. If academic credit is desired, students may arrange for credit from their home institutions, or they may enroll in either BSC 6936 (graduate) or BSC 4934 (undergraduate) at Florida International Univ. (Dept. Biological Sciences) and receive 2-3 semester credit hours. These courses can be taken by both non-F.I.U. as well as F.I.U. students.

Enrollment & Application: Limited to 13 participants, with preference given to upper-level students or professional biologists/teachers; advanced undergraduates may also apply. Individuals should apply by March 10th, 2017 (to Dr. Judd, see address above). Applications should include the following: a letter stating reasons for taking the course, a curriculum vita, and a letter of recommendation (sent separately). Applicants will be notified of acceptance by March 24th, 2017.

Accommodation: Students will be housed at The Kampong (Tyson dormitory in the Scarborough House), but, if desired, housing is also available at a hotel near the Kampong. Facilities at The Kampong include 2 dorm-style rooms with bunk beds, shared kitchenette for self-catering, laundry facility and Wi-Fi access. Tentatively, dorm fees are \$25 per day payable directly to The Kampong.

Fees: A course fee of \$1700 (paid to the Kampong) is required to cover course/workshop costs.

Scholarships: A limited number of scholarships are available to cover full or partial course fees, lodging and travel. Priority will be reserved for international students with demonstrated need. To apply, please include a one-page statement that explains how you hope to contribute to tropical plant biology and conservation in your region of study or residence, a total budget for your participation in the course, and a request for full or partial support. Decisions for scholarship will be made with notifications of acceptance by March 24th, 2017.

SCHEDULE TROPICAL BOTANY 2017

A field course sponsored by Florida International University, the International Center for Tropical Botany, The Kampong of the National Tropical Botanical Garden, Fairchild Tropical Botanic Garden, and Montgomery Botanical Center

Classes start at 8:00 AM and usually finish at 5:30 PM; field trips will finish somewhat later. Lectures and laboratories will be held in the laboratory and seminar room at The Kampong (4013 S. Douglas Rd., Coconut Grove) and the Science Village at Fairchild Tropical Botanic Garden (10901 Old Cutler Rd., Coral Gables). We will make extensive use of the plant material at both The Kampong and Fairchild Gardens, and we will also use the cycad and conifer collections at the Montgomery Botanical Center. **Walter Judd** (Distinguished Professor Emeritus, Dept. of Biology, Univ. of Florida), **Christopher Baraloto** (Associate Professor, Dept. of Biological Sciences, and Director, International Center for Tropical Botany, Florida International Univ.) and **Lucas Majure** (Biologist of New World Succulents, Desert Botanical Garden) are the course co-instructors, but the lecture and laboratory on Arecaceae will be given by **Scott Zona** (Curator of the Wertheim Conservatory, Florida International Univ.), an expert in this group.

Sun	May 21	ARRIVE (and check into dormitory at The Kampong).
Mon	22	Orientation (at The Kampong); introduction to the course; the phylogenetic approach; overview of vegetative, floral and fruit terms [WJ, CB]. [<i>Walking tour of The Kampong, and tram ride through Fairchild Tropical Botanic Garden (FTBG).</i>]
Tue	23	Tropical Communities – "Top Ten" Families. <i>Fieldtrip: Matheson Hammock (in afternoon)</i> [WJ, CB].
Wed	24	Field and herbarium methods [<i>visit FTBG Herbarium</i>] [CB, WJ].
Thur	25	Introduction to Tracheophyta and Spermatophyta: Cycads and Conifers [WJ]. [<i>Visit Montgomery Botanical Center</i>].
Fri	26	<i>Field Trip: Florida Keys (Windley Key, Long Key)</i> [WJ, CB].
Sat	27	FREE [<i>optional field trip: Montgomery Botanical Center—walking tour</i>]

Sunday	28	FREE
Mon	29	Introduction to Angiospermae, with a focus on architectural models, pollination biology and fruit dispersal [CB, WJ]; lab on growth architecture, fruit dispersal and pollination syndromes [CB].
Tue	30	Primitive angiosperms and Magnoliidae: Nymphaeales, Austrobaileyales, Magnoliales, Laurales, and Piperales [CB, WJ].
Wed	31	Monocotyledoneae: Alismatales, Liliales (emphasis on Smilacaceae), Asparagales (emphasis on woody taxa, orchids), Dioscoreales [WJ].
Thur	June 1	Monocotyledoneae: Commelinidae: Poales and Zingiberales [WJ].
Fri	2	<i>Field Trip: Everglades National Park</i> [CB, BJ, WJ].
Sat	3	FREE [move laboratory to Science Village, F.T.B.G.]; <i>optional lecture on ferns.</i>

Sun	4	FREE
Mon	5	Monocotyledons: Arecales/Palmae and Pandanales [Scott Zona]
Tue	6	Eudicotyledoneae: basal-groups & Rosidae: Ranunculales, Proteales, Dilleniales, Zygophyllales, Oxalidales, and Fabales [CB, WJ].
Wed	7	Rosidae, cont.: Malpighiales, Fagales, and Cucurbitales [CB, WJ].
Thur	8	Rosales, Brassicales, and Malvales [CB, WJ].
Fri	9	Myrtales and Sapindales [CB, WJ].
Sat	10	<i>Field Trip: Gifford Arboretum</i> (University of Miami) – half day [CB, WJ]

Sun 11 FREE*
Mon 12 Introduction to Superasteridae: Santalales and Caryophyllales [LM].
Tue 13 Asteridae: Ericales [WJ], Aquifoliales [LM], and Gentianales [LM].
Wed 14 Lamiales [LM].
Thur 15 Solanales, Apiales, and Asterales [LM].
Fri 16 *Field Trip: Bahia Honda, Key Deer Preserve on Big Pine Key* [all].
Sat 17 Review & Course overview [+ Evening Party at Kampong].

Sun 18 DEPARTURE.

* Optional fieldtrip to local natural area.