

2023 Florida Rare Plant Conference

Agenda

Thursday, April 27, 2023 (Day 1 of 2)

8:30-8:35 *Welcome and conference overview with Cheryl Peterson and Jennifer Possley*

Keynote Address

8:35-9:20 **Wesley M Knapp**, Chief Botanist, NatureServe. “The Race Against Plant Extinction: The current state of knowledge and Florida’s unique position.”

Morning session

(25 minute presentations with 5 minutes for questions)

9:20-9:50 **Patti J. Anderson**, FDACS-Division of Plant Industry “Listing Plant Species as Endangered: The Process and the Role of EPAC (Endangered Plant Advisory Council).”

9:50-10:20 **Daniela Champney**, Fairchild Tropical Botanic Garden. “Fairchild’s Connect to Protect Network: Recent efforts to promote native plants to South Florida residents, with a focus on state-listed species.”

10:20-10:30 *Break*

10:30-11:00 **Hanna Rosner-Katz**, Florida Natural Areas Inventory; “Florida Plant Rescue: Where We Are Now

11:00-11:30 **Cliff G. Martin** and **Zachary Brym** (both Dept. of Agronomy, UF/IFAS, TREC) “Rare plants at UF/IFAS Tropical Research and Education Center (TREC): 47 species and counting!”

11:30-Noon **Andre A. Naranjo** (Florida International University), **Ryan A. Folk** (Mississippi State University), **Matthew A. Gitzendanner** (University of Florida), **Douglas E. Soltis** (University of Florida), **Pamela S. Soltis** (Florida Museum of Natural History). “Florida mints radiated as peninsula sank and resurfaced during ice ages.”

Noon-12:30 *Lunch break*

Afternoon session

12:30-1:00 **Federico López-Borghesi**, University of Central Florida, and **I. Jack Stout**, University of Central Florida, “Demographic dynamics of the federally listed *Lupinus aridorum* using monthly examinations.”

- 1:00-1:30 **Hanna Bowen¹, Cheryl Peterson², Eric Menges¹, and Aaron David¹**
 1 Plant Ecology Program, Archbold Biological Station, Venus, FL 33960, U.S.A
 2 Rare Plant Conservation Program, Bok Tower Gardens, Lake Wales, FL 33853, U. S.A
 “Long-term success of *Chrysopsis floridana* introductions depends on continued fire management.”
- 1:30-2:00 **Raelene Crandall**, Assistant Professor, School of Forest, Fisheries, and Geomatics Sciences, Southern Fire Exchange, University of Florida – Title TBD
- 2:00-2:30 **Alan R. Franck**, University of Florida Herbarium, Florida Museum of Natural History, Gainesville, Florida **George D. Gann**, The Institute for Regional Conservation, Delray Beach, Florida. “What is *Guilandina major* and where is it in Florida?”
- 2:30-2:40 *Break*
- 2:40-3:10 **Sterling A. Herron**, Archbold Biological Station, **Haley Dole**, University of Nevada, Reno, **Stephanie M. Koontz**, Georgia Department of Natural Resources, **Eric S. Menges**, Archbold Biological Station, **Stacy A. Smith**, University of Florida, **Carl W. Weekley**, Archbold Biological Station, **Aaron S. David**, Archbold Biological Station, “Population trends and prospects for endangered Florida ziziphus (*Pseudoziziphus celata*) on the Lake Wales Ridge.”
- 3:10-3:40 **O.U. Onokpise**, **T. Brown**, and **G. Nurse**, Brooksville Agricultural and Environmental Research Station, Florida A&M University, and **C. Peterson**, Bok Tower Gardens. “Brooksville Bellflower Habitat Restoration through cow grazing pressure: an update.”
- 3:40-4:10 **Andrea M. Naccarato**, Archbold Biological Station, **Stacy A. Smith**, University of Florida, **Eric S. Menges**, Archbold Biological Station, and **Aaron S. David**, Archbold Biological Station, “Experimental Introduction of *Crotalaria avonensis*, a Narrow Endemic of the Florida Scrub.”
- 4:10-4:40 **Ashlyn Smith**, Atlantic Botanic Garden. “Demographic response of Chapman’s rhododendron to prescribed fire; preliminary results of a three year study.”
- 4:40-5:10 **Bruce Holst**, **Liz Gandy**, and **Shawn McCourt**, Marie Selby Botanical Gardens, “The Florida native plant diet of lemurs from Madagascar, and how lemurs are helping to protect a small portion of rapidly disappearing natural lands in Manatee County.”
- 5:10-5:15 *Wrap-up and overview of tomorrow.*

Friday, April 28, 2023 (Day 2 of 2)

Morning Field Trips

9:00-Noon *In-person field trips throughout the state (see registration form).*

Journal Club

1:00-1:30 Inaugural Journal Club session where we review and discuss a peer-reviewed published article relevant to rare plant ecology and conservation. This year's article is "The role of seed dispersal in plant populations: perspectives and advances in a changing world." Viewpoint article in Special Edition of AoB PLANTS 2020, Vol. 12, No. 2 doi:10.1093/aobpla/plaa010 Advance Access Publication March 13, 2020.

Poster Sessions

(10 minute presentations with 5 minutes for questions)

1:30-1:45 *Introduction with Jennifer Possley and Cheryl Peterson*

1:45-2:00 **Luc Alfred, Sarah Arnan, Emily Boyette, Toby Ellison, Jenna Gutierrez, Stephanie Hicks, Nylla Wilder, and Kate Calvin PhD**, Honors Research Mentor. All from South Florida State College, "GC-MS Analysis of Bioactive Compounds in *Ziziphus celata*."

2:00-2:15 **Helen Pennington, Pranay Lingareddy, and Erin N. Bodine**, E.C. Ellett Professor of Mathematics, Rhodes College. "Modeling the Population Dynamics of Imperiled *Guzmania monostachia* Populations."

2:15-2:30 **Lindsey A. Riibe, and Jennifer E. Possley**, Fairchild Tropical Botanic Garden. "Florida's list of endangered and threatened plants overlooks dozens of fern species."

2:30-2:45 *Break*

2:45-3:00 **Brian J. Sidoti**, Fairchild Tropical Botanic Garden, **Erin N. Bodine**, Rhodes College, **Eduardo Cordoves**, BioTECH at Richmond Heights High School, **Nataly Irias**, BioTECH at Richmond Heights High School, **Isabella Mendizabal**, BioTECH at Richmond Heights High School, **Jean Moreno-Gongora**, BioTECH at Richmond Heights High School, **Sabine Wintergerst**, Fairchild Tropical Botanic Garden, **Brad Oberle**, New College of Florida, **Jolynne Woodmansee**, BioTECH at Richmond Heights High School, **Jamie Anderson**, Fairchild Tropical Botanic Garden, and **Rachel S. Jabaily**, Colorado College. "Vegetative vs. Reproductive Mass Comparisons of Two Florida Native Bromeliads."

3:00-3:15 **Brian J. Sidoti**, Fairchild Tropical Botanic Garden, **Rachel S. Jabaily**, Colorado College, **Andy Diaz**, BioTECH at Richmond Heights High School, **Brandon Easler**, BioTECH at Richmond Heights High School, **Emiliana Nunez Montas**, BioTECH at Richmond Heights High School, **Mia Rodriguez**, BioTECH at Richmond Heights High School, **Sofia Purchon-Cantel**, BioTECH at Richmond Heights High School, **Amanda Torrecilla**, BioTECH at Richmond Heights High School, **Sabine Wintergerst**, Fairchild Tropical Botanic Garden, **Brad Oberle**, New College of Florida, **Jolynne Woodmansee**, BioTECH at Richmond Heights High School, **Jamie Anderson**, Fairchild Tropical Botanic Garden, and **Erin N. Bodine**, Rhodes College. "Comparison of Seed Counts of Two Native Bromeliads: Strategies and Recommendations"

3:15-3:30 **Michelle Smith**, Institute for Regional Conservation. Technical summary of the reintroduction of *Jacquemontia reclinata* (Beach clustervine) and the importance of Coastal Strands in Palm Beach and Miami-Dade counties

3:30-3:45 **Michael Penton**, Richmond @BioTECH high school in (Miami) and Sabine Wintergerst, Fairchild Tropical Botanic Garden. “Effect of soil salinity on germination of Fragrant pricklyapple (*Harrisia fragrans*) seeds collected from three populations across its range.”

3:34-4:00 **Christopher P. Williams, Ph.D., P.G.**, Professional Geologist II, Florida Geological Survey, “Florida’s geomorphic Districts and Provinces.”

Wrap-up

4:00-4:30 *Conference synopsis, review of resources and important dates for 2023, reports from field trips, conference feedback, and ideas for next year. Discussion and questions from all attendees will be encouraged.*