



Board Report February 28, 2020
Botany 2020 Conference Overview

Participating Societies

American Bryological and Lichenological Society
American Fern Society
American Society of Plant Taxonomists
Botanical Society of America
International Association of Plant Taxonomists
Society of Herbarium Curators

Abstract Submissions

Oral and poster Presentations Opened February 7
Recent Topics and Lightning Talks will open in early June

Conference Registration Opened February 7

Conference Content

Confirmed Featured Speakers

Plenary Speaker – TBD
BSA's Emerging Leader – Emily Sessa
Regional Botany Special Lecture – Carolyn Parker
Annals of Botany Special Lecture – TBD
ASPT Incoming President Talk – Barbara Thiers
Enhancing Scientist Diversity in Plant Biology Luncheon Speaker – Beth Leonard
Kaplan Memorial Lecture – Ned Freidman
Incoming BSA President Talk - Cynthia Jones

Workshops

Complete descriptions are on the Botany 2020 website

Full Day - 8:00 am - 5:00 pm

- **Analysis of Ecological Communities using Structural Equation Modelling**
Organized by: Dr. Uromi Manage Goodale, Guangxi University, Nanning, Guangxi, P.R. China, Mr. Francesco Martini, Guangxi University, Nanning, Guangxi, P.R. China
- **Analysis of Target Capture Data for Phylogenetics and Population Genetics**
Organized by: Matt Johnson, Texas Tech University, Niki Patel, University of Connecticut
- **Conservation Status Assessments: IUCN Red List and NatureServe Ranks**
Organized by: Anne Frances, NatureServe, Clay Meredith, ABQ BioPark
- **De novo genome assembly and annotation with an emphasis on evolutionary and population genetic studies**
Organized by: Jacob Landis, Cornell University, Fay-Wei Li, Boyce Thompson Institute, Suzy Strickler, Boyce Thompson Institute, Andrew Nelson, Boyce Thompson Institute
- **Introduction to High-Throughput Sequencing: Techniques, Applications, and Analysis**
Organized by: James Beck, Wichita State University, Nic Kooyers, University of Louisiana at Lafayette, Brittany Sutherland, University of Louisiana at Lafayette
- **Resurrection is coming: Using the Project Baseline seed bank**
Organized by: Heather Schneider Santa Barbara Botanic Garden, Jenn Weber Southeast Missouri State University, Nicole Soper Gorden (Mars Hill University), Julie Etterson University of Minnesota Duluth, Susan Mazer University of California Santa Barbara, Steve Franks Fordham University, Arthur Weis (University of Toronto, and Ruth Shaw University of Minnesota)

- **Using Digitized Herbarium Data in Research: Applications for Ecology, Phylogenetics, and Biogeography**
Organized by: Pamela S. Soltis, Univ of Florida, Douglas E. Soltis, Univ of Florida

Half-Day - 8:00 am - 12:00 pm

- **Active Learning in the Botany and Ecology Classrooms Using Free Resources from HHMI BioInteractive**
Organized by: J. Phil Gibson, University of Oklahoma
- **Developing a Learning by Leading Program: A Toolkit for Empowering the Environmental Leaders of Tomorrow**
Organized by: Carmia Feldman, UC Davis Arboretum and Public Garden, Kathleen Socolofsky, UC Davis Arboretum and Public Garden, Jennifer Cruse-Sanders, University of Georgia State Botanical Garden, Cora Keber, University of Georgia State Botanical Garden

Two Hour - 10:00 am - 12:00 pm

- **A Digital Flora of North America for a Digital Age: An Interactive Session with the Flora of North America**
Organized by: Jocelyn Pender, Agriculture and Agri-Food Canada, James Macklin, Agriculture and Agri-Food Canada, Joel Sachs, Agriculture and Agri-Food Canada, Beatriz Lujan-Toro, Agriculture and Agri-Food Canada, Geoffrey Levin, Canadian Museum of Nature
- **Time management and career planning: long-term, short-term, and daily goals**
Organized by: Ya Min Harvard University, Michelle Gaynor: University of Florida.
Planned Speakers: Karolina Heyduk: University of Hawai'i, Mānoa; J. Chris Pires: University of Missouri; Lena Struwe: Rutgers University

Half-Day Afternoon - 1:00 pm - 5:00 pm

- **Ace it! - Practice your Presentation, Get Feedback, Give a Better Talk**
Organized by: Dr. Bruce Kirchoff, Department of Biology, University of North Carolina at Greensboro
- **Common methods in leaf gas-exchange research: an introduction to measurements, data analysis, and theory**
Organized by: Christopher P. Krieg University of Wisconsin – Madison, Jason Hupp Field Applications Scientist LI-COR Biosciences, Steven Augustine Department of Botany University of Wisconsin - Madison
- **Disentanglement of rings: a practical introduction to assembling plastomes and mitogenomes from NGS and LRS data.**
Organized by: Jianjun Jin Columbia University
- **Phylotranscriptomic analyses: using RNA-seq data in phylogenetic reconstruction and evolutionary analyses**
Organized by: Ya Yang, University of Minnesota-Twin Cities, Stephen Smith, University of Michigan, Ann Arbor, Diego Morales-Briones University of Minnesota-Twin Cities

Two Hour Afternoon - 1:00 pm - 3:00 pm

- **Developing a mentorship network that serves the PUI community**
Organized by: Rachel Jabaily Colorado College
- **Multi-dimensional instruction in Botany using the Four-Dimensional Ecology Education (4DEE) Framework: How to transform lessons.**
Organized by: Luanna Prevost, University of South Florida, Diane Ebert-May, Michigan State University, Jennifer Doherty, University of Washington, Amanda Sorensen, Michigan State University
- **So you want a job: approaching the academic/research job market as a postdoc**
Organized by: Stephanie Conway Harvard University, Rebecca Povilus Whitehead Institute
- **Teaching Online Botany Laboratory for Non-majors**
Organized by: Ben Montgomery University of South Carolina Upstate
- **Tips for Success: Applying to Graduate School**
Organized by: Anna Monfils, Central Michigan University

Ticketed Events

- All Society Mixer
- Undergraduate Reception
- Cornell Breakfast
- Michigan Consortium of Botanists Breakfast
- AFS Luncheon
- Careers in Botany – Student Luncheon
- California Botanists Brown Bag

- Paleo Banquet
- Student Social
- University of Connecticut Breakfast
- Enhancing Scientist Diversity Luncheon
- Kaplan Memorial Reception
- ABLS Dinner - TBD
- LGBT and Friends Reception
- ASPT Mixer and Dinner
- University of Wisconsin Breakfast
- Miami of Ohio Breakfast
- All Society *Celebrate!*

Field Trips

Friday

- Sedges from Sea Level to Alpine

Saturday

- Flora of the Chugach Mountains
- Bike and Kayak on Glacial Waters
- Alpine Flowers in Hatcher's Pass
- Alaska Botanic Garden – Tour
- Sedges of the Peatland and Marsh

Sunday

- Ferning around Turnagain Arm
- Boreal Forest Bryophyte and Lichen Communities of the Chugach Mountains
- Alaska Botanic Garden – Tour
- Ethnobotany at Alaska Native Tribal Health Consortium

Post Conference – Thursday

- Aquatic Plants along the Canoe Trail System
- Portage and Byron Glacier Tour
- Alpine Bryophyte and Lichen Communities of the Chugach Mountains
- Alaska Wildlife Tour
- Overnight trip to Explore the Wildflowers of Denali

In addition a trip each day, (M-T-W) to the Alaska Botanic Garden

Symposia

- Angiosperms353: A new essential tool for plant systematics
Organized by: Laura Lagomarsino, Louisiana State University, and Rachel Jabaily, Colorado College.
- Plant epigenetics: phenotypic and functional diversity beyond the DNA sequence
Organized by: Teresa Boquete, Estación Biológica de Doñana, Sevilla, Spain; Conchita Alonso, Estación Biológica de Doñana, Sevilla, Spain, and Aline Muyle, University of California Irvine.
- The impact of climate change on plants and their interactions with pollinators
Organized by: Dr. Johanne Brunet, USDA-ARS VCRU, Madison, Wisconsin and Dr. Christa Mulder, University of Alaska, Fairbanks.
- Beringia!: Current insights on the geology, climate, paleontology, floristic assembly, and biodiversity of a subcontinent that is central to Northern Hemisphere biogeography
Organized by: AJ Harris, Oberlin College and Conservatory, Oberlin, Ohio, South China Botanical Garden, Guangzhou, Guangdong, China (Beginning 2020) and Jenny Xiang, North Carolina State University, Raleigh, North Carolina
- From Genes to Distributions: physiological ecology as an integrator of polyploid biology
Organized by: Christopher P. Krieg, University of Florida, Steven Augustine, University of Wisconsin-Madison, and Thomas Givnish. University of Wisconsin-Madison.

- Insights into the diversity of plant sex chromosomes
Organized by: Joanna Rifkin, University of Toronto; and Sarah Carey, University of Florida.

Colloquia

- Phylogeny and biogeography of Ericaceae
Organized by: Benjamin Potter, University of Auckland
- Ferns at the extreme: the case of moonworts, grape-ferns and adder's tongues of the family Ophioglossaceae
Organized by: Prof. Jason Grant, Laboratoire de génétique évolutive, Institut de biologie, Université de Neuchâtel
- Extreme conservation measures for plants at the extremes in the Hawaiian archipelago model system
Organized by: Nina Rønsted, National Tropical Botanical Garden, Hawai'i, and Seana Walsh, National Tropical Botanical Garden, Hawai'i
- PhyloCode 2020: Naming the Tree of Life
Organized by: Nico Cellinese, University of Florida and Michael Donoghue, Yale University
- Cyperaceae in the era of big data: new evolutionary insights from solid frameworks
Organized by: Pedro Jiménez-Mejías, Departamento de Biología (Botánica), Facultad de Ciencias Biológicas, Universidad Autónoma de Madrid, Isabel Larridon, Royal Botanic Gardens, Kew; Systematic and Evolutionary Botany Lab, Department of Biology, Ghent University
- Exploring the utility and limits of target enrichment methods to study polyploidy and reticulate evolution
Organized by: Diego F. Morales-Briones, University of Minnesota,
- Plant life in Neotropical rocky outcrops
Organized by: Johanna Jantzen University of Florida, and Maria Beatriz de Souza Cortez University of Florida
- The Science of Meaningful Undergraduate Research Experiences
Organized by: Ed McAssey, Quinnipiac University, and Karolina Heyduk, Yale University
- Inclusive Herbarium-Based Research
Organized by: Frederica Bowcutt, The Evergreen State College and Megan Mucioki, University of California, Berkeley,
- Characteristics of nectar, nectaries, and nectar spurs
Organized by: Lena Hileman, University of Kansas, Rahul Roy, University of Minnesota, Twin Cities, and Irene Liao, Duke University
- Biogeographic patterns and adaptive radiations in the Pacific
Organized by: Benjamin Potter - University of Auckland, Marc Appelhans - Georg-August-Universität Göttingen and Warren Wagner - Smithsonian Institution
- Advances in collections-based systematics and biogeography – A tribute to Dr. Vicki Funk
Organized by: Jun Wen, Smithsonian Institution, and Warren L. Wagner, Smithsonian Institution
- Parasites among the autotrophs
Organized by: Luiza Teixeira-Costa Harvard University, Guillermo Angeles Instituto de Ecología (Mexico) and Gregorio Ceccantini University of Sao Paulo (Brazil)
- A Multidisciplinary Approach to Conserving North American Trillium
Organized by: Wesley Knapp, Anne Frances, and Aaron Floden
- Biodiversity synthesis: Linking large phylogenies with species traits and ecologies.
Organized by: Ryan Folk, Mississippi State University, Carolina Siniscalchi, University of Memphis, and Robert Guralnick, University of Florida
- Botany taking flight: using drones in plant research
Organized by: Manuel Luján, California Academy of Sciences, and Matt Guilliams, Santa Barbara Botanic Garden
- Phylogenomics and evolution of Superrosids
Organized by: Hong Ma, The Pennsylvania State University, Doug Soltis: University of Florida and Pam Soltis, University of Florida

- Mechanisms of rapid adaptation through the expression of “heterogenomicity”
Organized by: Margaret Frank, Cornell University and Michael McKain, The University of Alabama
- Origin and Evolution of Reproductive Organs in Land Plants
Organized by: Xin Zhang, Northwest A&F University
- Enriching basic and applied botany through multi-stakeholder collaborations
Organized by: Caroline Puente-Lelievre, Laura Klein, LeafWorks Inc., Sara Handy, US Food and Drug Administration, Michael Kantar, University of Hawaii, and Marybel Soto Gomez, University of British Columbia

New Initiatives

- Work to incorporate more “green” ideas into the conference - reduce print materials, less plastic, carbon offsets for travel and etc.
- Exploring Science Knows no Borders Program to aid folks that cannot get Visas and potential pandemic travel issues

Coming Soon

- Booked for 2021 – Boise, Idaho
- Venue for 2022 – Columbus, Ohio vs. Grand Rapids, Michigan
- Venue for 2023 - IBC year
- Venue for 2024 –
- Contract signed for 2025 – Back to Tucson

Action Items:

- I would like to request funding again this year for student members of BSA to take field trips. Last year we supported students with \$1900.00. Amount requested: \$3000.00. ASPT has tentatively pledged \$2000.
- Child Care – KiddeCorp was very well received by the families that took advantage of their services. I would like to engage them again for this year. Requesting \$3000.00 from BSA to support Childcare in Anchorage. Propose keeping the same rates for parents (\$5.00/hr) to make it affordable.