

Program Director's Report
Amy Litt and Johanne Stogran, BSA Conference Director
Botany 2019

Participating Societies

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

Submitted abstracts (as of July 16, 2019)

Contributed papers - 537
Symposia – 6
Colloquia – 13
Special sessions (IAPT Early Career, Educating for a Diverse community) – 12
Posters – 339
Discussion sections – 1
Workshops – 19
Special Lectures – 8
Lightning talks (titles only) – 21
Recent Topics – 37
Total – 1060

Plenary speaker

Excerpted and adapted from Wikipedia:

Stephen J. Pyne (1949-present) is an emeritus professor at Arizona State University, specializing in environmental history, the history of exploration, and especially the history of [fire](#). Pyne received his bachelor's degree at Stanford University and later attained his master's (1974) and Ph.D. degrees (1976) at the University of Texas at Austin. A MacArthur Fellowship came to him in 1988. He has also received a Fulbright Fellowship to Sweden, been awarded two National Endowment for the Humanities Fellowships, and has enjoyed two tours at the National Humanities Center.

He spent fifteen seasons as a wildland firefighter at the North Rim of Grand Canyon National Park between 1967 and 1981. He later spent the summers of 1983-85 writing fire plans for Rocky Mountain and Yellowstone national parks. Since the publication of his second book, *Fire in America* in 1982, he has been known as one of the world's foremost experts on the history and management of fire. He has written big-screen fire histories for Australia, Canada, Europe (including Russia), and Earth overall, as well as essays on other lands. He has written or co-authored three textbooks on landscape fire and its management. Recently, he has completed a new survey of the American fire scene with *Between Two Fires: A Fire History of Contemporary America*, a narrative play-by-play, and a suite of nine regional reconnaissances under the collective title *To the Last Smoke*. In 2015 he gave a TED Talk on "Fire, a biography."

He will be signing his latest book after the Lecture

Field Trips

Friday July 26 - 27 (Overnight trip)

Lycophytes and Ferns of the Madera Canyon - Trip Leaders: Emily Sessa, University of Florida and Douglas Moore, Arizona Native Plant Society and Friends of Madera Canyon.

Saturday July 27

Desert flora of the Tucson Mountains - Trip Leaders: Martha Hawes, Iris Rodden, and Sue Rutman

Lycophytes and Ferns of the Catalina Mountains - Trip Leaders: George Ferguson and Sue Carnahan

Sky Island Plant Communities of the Santa Catalina Mountains - Trip Leaders Joseph (Joey) Charboneau, University of Arizona, Jim Verrier

West Cochise Stronghold, Dragoon Mountains. - Shelly McMahan, University of Arizona; Douglas Ripley, Arizona Native Plant Society

Desert Laboratory on Tumamoc Hill - Trip Leader: Dr. Ben Wilder

Lighting for Moths and Other Insects of Southern Arizona - Trip Leaders: Bruce Walsh, Dept of EEB, BSW, University of Arizona

Sunday July 28

Pima County Native Plant Nursery - Trip Leaders: Jessie Byrd, Native Plant Nursery

Mount Lemmon, Santa Catalina Mountains - Trip Leaders: Jim Malusa and Joseph (Joey) Charboneau, University of Arizona

Crop Wild Relatives Conservation in the Southwest - Trip Leaders: Laura Klein, Danforth Plant Science Center

Madera Canyon, Santa Rita Mountains - ABLS Sponsored Trip - Leaders to be announced.

Mount Lemmon, Santa Catalina Mountains - ABLS Sponsored Trip - Leaders to be announced.

Arizona Sonora Desert Museum - Trip Leaders: John Wiens, Matthew Jevnikar

Tohono Chul Park - Trip Leader: Matt Johnson, University of Arizona Herbarium

University of Arizona Campus: Herbarium, Campus Arboretum, and Laboratory of Tree Ring Research - Leaders to be announced.

Hamilton Distillers - Trip Leader: Alison Harrington, University of Arizona

Thursday August 1

Mount Hopkins, Santa Rita Mountains - Trip Leaders: Sue Carnahan, George Ferguson, Doug Moore

Arizona Sonora Desert Museum - Trip Leaders: John Wiens, Matthew Jevnikar

Symposia and Colloquia

Symposia	Organizers	Support
Phylogenomic Perspectives on Reproductive Isolation and Introgression	Deren Eaton	BSA, and in name, ASPT, BSA Economic Botany, Genetics, and Teaching sections
Life without water: evolution and adaptation of xeric plants	Karolina Heyduk, Olwen Grace, and Michael McKain	ASPT, BSA, BSA Development and Structure, Ecology, and Economic Botany sections and, in name, BSA Genetics section
The Potential of Machine Learning for Plant Biology	Pam Soltis and Gil Nelson	BSA, SHC, and, in name, ASPT, BSA Development and Structure, Economic Botany, Genetics, Teaching sections
At the Intersection of Applied and Academic Botany: Fertile Ground for an Interdisciplinary Botanical Renaissance	Scott Schuette and Chris Martine	ABLS, BSA, and in name, ASPT, BSA Genetics and Teaching sections
Crop Wild Relatives and Land Races: the Sky Islands of Southwest North American Agriculture	Norman Ellstrand, Laura Klein, and Allison Miller	ASPT, BSA, BSA Economic Botany section, and, in name, BSA, Genetic section
Green Land: Multiple Perspectives on Green Algal Evolution and the Earliest Land Plants	Rick McCourt	ASPT, BSA, and BSA Systematics section and, in name, BSA Development and Structure, Genetics, Teaching, and Paleobiology sections
Colloquia		
Floristics in North America: Current needs, priorities and opportunities	Neil Snow	In name, ASPT, BSA Genetics, Teaching, Systematics sections
The evolution of functional traits in plants: is the giant still sleeping?	Chase Mason, Juliana Medieros, Christina Caruso	BSA Development and Structure section and, in name, ASPT and BSA Genetics section
Dynamics and Demography of Alpine Islands	Dena Grossenbacher, Seema Sheth, Meagan Oldfather	BSA Ecology section and, in name, ASPT and BSA Genetics section
Reticulate evolution and biogeography in ferns and lycophytes - a colloquium honoring Dr. David Barrington	Weston Testo, Nikisha Patel, Michael Sundue	AFS, BSA Pteridology section, and, in name, ASPT and BSA Genetics sections
Species delimitation in polyploid complexes	Christoph Oberprieler, Bengt Oxelman	In name, ASPT and BSA Genetics section
Time to dig: the importance of underground storage organs in plant evolution	Cody Howard	In Name, ASPT and BSA Development and Structure and Genetics sections
Sexual selection in flowering plants: traits, processes, and estimation	Shumei Chang	In name, ASPT and BSA Genetics and Teaching sections
Celebrating 15 years of SERNEC: Where we've been, where we are, & where we are going	Zack Murrell, Michael Denslow	ASPT, SHC and, in name, BSA Teaching and Southeastern

		sections
Ecological factors that drive patterns of population genetic structure in plants	Diana Gamba-Moreno, Nathan Muchhala	In name, ASPT and BSA Economic Botany and Genetics sections
Donald J. Pinkava's legacy – the ASU Herbarium in the Sonoran Desert	Kathleen Pigg, Stephanie Ickert-Bond	BSA Paleobotany section and, in name, ASPT and BSA Genetics and Teaching sections
Questioning Species and Species Complexes: A Colloquium in Honor of Dr. R. James Hickey	Melanie Link-Perez, Michael Barker	In name, ABLS, ASPT, and BSA Economic Botany, Genetics, Teaching, and Pteridology sections
Pacific Biogeography	Benjamin Potter, Warren Wagner	ASPT and, in name, BSA Genetics section
Ericaceae: Systematics, Ecology and Evolution	Benjamin Potter	ASPT and, in name, BSA Economic Botany and Genetics sections
Special Sessions		
IAPT Early Career Investigator Program: Life and the Edge	Tatyana Livshultz, Mauricio Bonifacino	
Educating for a Diverse and Inclusive Community in Botany	Ann Sakai, Muriel Poston, Anna Monfils, Catrina Adams and Kyra Krakos	

Workshops - Sunday

All Day 8:00 - 5:00

Using Digitized Herbarium Data in Research: Applications for Ecology, Phylogenetics, and Biogeography. Presented by: Pamela Soltis

Broadening Botanical Pathways in Teaching (10am to 3pm). Presented by: Gordon Uno and Marshall Sundberg

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

Scoring Phenology on Herbarium Specimens using Symbiota. Presented by: Ed Gilbert, Katie Kearson, Patrick Sweeny and Jenn Yost

Using HHMI Videos and Data Points As Tools For Engaging Students From Molecules to Ecosystems. Presented by: Phil Gibson

Underutilized Plants: Holistic Wealth Security of World - Presented by: Pandey Vashist

2 Hour Morning -10:00 - 12:00 pm

Authors in the Driver Seat: Evaluating Phenotypes Data Authoring Tools. Presented by: Hong Cui and Anton Reznicek

Empowering citizen science leaders with tools for robust community engagement. Presented by: LoriAnne Barnett

Professional Writing: Covering Personal Statements, Research Statements, and Teaching Statements. Presented by Chelsea Pretz and Min Ya

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

How to navigate in tree space: learning to generate clade names and computable clade definitions (phyloreferences) for the Tree of Life. Presented by: Nico Cellinese

Flow cytometry of plants: a practical introduction to angiosperm genome size measurement. (1:00 - 4:30) Presented by: David Galbraith and Elizabeth Villalobos-Menuey

Two Hour Afternoon 1:00 - 3:00 pm

Tips for Success: Applying to Graduate School. Presented by: Anna Monfils

Timing is Everything! Using Phenology to Stimulate Interest by Undergraduate Students in the Plant Sciences and Climate Change. Presented By: Howard Neufeld

Two Hour Late Afternoon 3:15 - 5:15 pm

Tools for building highly customized figures, for intermediate R users. Presented by: Glen Morrison and Alex Rajewski

Strategies for successful faculty/undergraduate student collaborative research at PUIs. Presented by: Rachel Jabaily

Monday, July 29 - Noon - 1:00 pm

National Science Foundation Information Session for faculty and other professionals. Presented by Representatives of NSF. Free - Bring your lunch!

3:00 - 5:00 pm

CV/Resume Review and Coaching Sessions I:

This year BSA has teamed up with other societies (TBA) to organize CV/Resume Review and Coaching Sessions. Sign-up for a 15 minute, one-on-one review session with professionals from the field to get feedback on your CV or resume. This is completely free, but does require you to sign-up for a slot. If you would like more time or have more than one person review your CV make sure to sign-up for one than one spot. Sign up on the conference website: <https://botanyconference.org/workshops.html>

Tuesday, July 30 - 3:00 - 5:00 pm

CV/Resume Review and Coaching Sessions II: See above.

4:30 - 5:30 pm

National Science Foundation Information Session for early career individuals. Presented by Representatives of NSF

Ticketed Events

Sunday

Undergraduate Student Networking Event - 6:15 pm - 7:15pm
All Society Opening Mixer - 8:30 pm - 10:00 pm

Monday

Cornell Botanists and Friends Breakfast 7:00 am - 8:00 am
Michigan Consortium of Botanists Breakfast 7:00 am to 8:00 am
American Fern Society Luncheon Noon to 1:30 pm
Student Involvement in Botany Luncheon Noon to 1:30 pm
California Botanists Brown Bag Luncheon. Noon to 1:30 pm
Paleobotanical Section Banquet
Mixer (Free) 6:30 – 7:30 pm Dinner (Ticketed) 7:30 pm to 10:00 pm
Planting Science Reception 7:00 pm – 9:00 pm
Student Social and Networking Event!! 9:00 pm - midnight

Tuesday

University of Connecticut Alumni and Friends Breakfast - 7:00 am to 8:00 am
Enhancing Scientist Diversity in Plant Biology Luncheon - Noon to 1:30 pm
Kaplan Memorial Lecture Fund Cocktail Reception - 5:00 pm to 6:00 pm
Ohio State University Reception 5:30-6:30
LGBT & Allies Happy Hour. 5:30-6:30
American Society of Plant Taxonomists Banquet
Mixer (Free) 6:00 – 7:00 pm Dinner (Ticketed) 7:00 pm to 10:00 pm

Wednesday

University of Wisconsin Alumni and Friends Breakfast 7:00 am to 8:00 am
Miami University of Ohio Breakfast 7:00 am to 8:00 am
Celebrate! - 7:30 pm to 10:00 pm

Featured Speakers (non-ticketed events)

Sunday

- Stephen Pyne, Plenary Speaker

Monday

- Tom Van Devender, Regional Botany Lecture

Tuesday

- Elena Conti, Annals of Botany Lecture
- John Kiss, Kaplan Lecture
- Tom Antonio, Enhancing Scientist Diversity lecture

Wednesday

- Madeleine Bartlett, Emerging Leader Award Lecture

- Linda Watson, Address of BSA President-Elect

2019 new policies and procedures

Sessions

For 2019, the only programmatic change is to allow colloquia to have 1-2 30-minute presentations, rather than the traditional format of all 15-minute presentations. We also have two one-time special sessions, similar in format to symposia, but included by vote of the conference organizing committee rather than the entirety of the societies and BSA sections: IAPT Early Career Investigator Program: Life and the Edge, and Educating for a Diverse and Inclusive Community in Botany

Child Care

We are also offering a child care option for the first time through KiddieCorp, an organization that has been supplying children's programming for 33 years at such events. Care is offered for children 6 months through 12 years at a cost of \$5/hour for at least two hours per child. Currently there are 5 children enrolled for the week.

Code of Conduct

We implemented a document with instructions for moderators, based on some failures last year. We also revised the Code of Conduct and implemented a document with information on and instructions for the Code of Conduct Committee. We arranged for members of that committee to be confidential, known only to each other, those who appointed them, and IT Manager Rob Brandt who served as contact during the organizational phase.

The Future

The 2020 conference is in Anchorage, Alaska.

2021 – Boise, Idaho