



Workshop Descriptions

revised 02/21/18

PUI Faculty Development Workshop I Saturday, July 14th 8:30 a.m. - 12:00 p.m.
Requires pre-registration: \$45 fee, \$25 for students/post-docs

This workshop is for faculty currently working at primarily undergraduate institutions (PUIs) or younger scientists who would like to get a job at a PUI. PUIs are defined as institutions that offer few PhDs in the sciences. While teaching is a large part of being a PUI faculty member, maintaining a successful research program is also critical for career advancement and for providing undergraduates with high-caliber research experiences. The workshop will include presentations and discussions on mentoring in the PUI research environment, including a discussion of how to improve communication between mentor and mentee to enhance student learning and research success. Attendees will also participate in sharing their strategies for overcoming common hurdles in mentoring undergraduates in research.

Plant Science Training in 2035 I Saturday, July 14th 8:30 a.m. - 12:00 p.m.
Requires pre-registration, space is limited

The Plant Science Research Network (PSRN) would like to present the results of our strategic planning workshops to address the future of training in the plant sciences. In the fall of 2016 and 2017, the PSRN worked with students, faculty, and industry representatives to identify robust and innovative concepts to improve and modernize training to better prepare trainees for diverse careers. To produce the recommendations, we utilized Scenario planning to stretch our thinking. The scenarios called, Imagining Science in 2035, and supporting materials are available on Plantae. The workshop will be used to share the recommendations and gather specific feedback from ASPB members. The PSRN is an NSF-funded research coordination network, currently composed of 14 professional societies, councils, and associations.

Forest for the Trees: Science Communication with Deep Roots I Saturday, July 14th 8:30 a.m. - 12:00 p.m.

Stories about people in our past connect them to the present and point the way to our future. The purpose of this workshop is to teach human-centered storytelling as an effective approach in science communication to connect with the public, using examples from Canada and just across the border in the USA as a common theme. The workshop will feature presentations about science communication, facilitated group discussions, and guidance on how to get started in communication as a complement to a scientific career. Stories with deep roots have a lasting impact, and this workshop will explore how to connect present-day plant science stories to the past to make them more compelling and engaging.

Strategies for Developing Leadership Skills I Sunday, July 15th 8:30 a.m. - 12:00 p.m.
Requires pre-registration: \$10 workshop fee

A group of panelists will initiate the discussion and answer questions from the participants. In the second part of the workshop, participants will work in small groups on specific topics. Fee includes breakfast.

Too Creative for Science? I Sunday, July 15th 11:30 a.m. -1:00 p.m.
Requires pre-registration: \$35 fee/\$25 student rate

Have you ever wondered what it is like to grow up in a family of artists and then end up a scientist? What does thinking like an artist offer the scientist? Can the blending of art and science encourage a more diverse population of students to pursue science, and improve the public understanding of science? Ahna will give you an exciting glimpse into her life and how she has impacted science, education and the public with her two passions: science and art. Fee includes lunch.

Ensuring Plant Scientists Have a Seat at the Table: What You Can Do to More Effectively Communicate with Policy Makers I Sunday, July 15th 11:30 a.m. -1:00 p.m.

With national research funding stagnating or declining across U.S. and Canadian science agencies, the individual voices of plant scientists are desperately needed in public debates regarding research funding. Join us to find out what you can do locally to support reinvigoration of these critical investments.

Reproducibility for Everyone I Sunday, July 15th 8:30 a.m. - 12:00 p.m.
Requires pre-registration, space is limited

Science depends on reproducibility to build trust within and beyond the research community. This workshop will introduce you to reproducible workflows and a range of tools, from method sharing websites such as protocols.io, to Jupyter notebooks for documentation of code. This will help you share work with colleagues more effectively and allow others to build on what you have done.

Environmental and Ecological Plant Physiology Business meeting and Lightning Talks I Monday, July 16th 11:30 a.m. -1:00 p.m.

Please join us for the 2018 Annual EEPP Section Business Meeting and Lightning Talks! We will discuss the mission, vision and update on the EEPP Section, and have talks that span the breadth of our science. Lunch provided to the first 150 participants!

How to Review I Monday, July 16th 11:30 a.m. -1:00 p.m.

This workshop on How to Review offers guidelines for peer review for The Plant Cell, Plant Physiology, and Plant Direct (applicable to most scholarly journals). Specifically, the workshop will (1) cover the purpose of reviewing and the author–editor contract, (2) who should review (and who should not—the “ethics of reviewing”), (3) the elements of a good review; (4) the language of reviewing, and (5) what makes a good review (and a bad one). A few short presentations will be followed by an extended question & answer period.

Incorporating Research into the Classroom I Monday, July 16th 11:30 a.m. -1:00 p.m.

Students learn better when they are actively engaged in course material. For the sciences, this translates into involving them in authentic research experiences. Research experiences for undergraduates in our research labs are a valuable opportunity for all concerned, but these spaces are limited. We may all acknowledge that providing research experiences for all our majors (and possibly non-majors) in science classes should be a goal, but large class sections and limited resources restrict access. This workshop will focus on incorporating authentic research experiences into biology classes, both large and small. Classroom examples and resources will be shared from faculty successfully employing these strategies in classrooms serving freshmen to seniors.

Leadership Skills in Science I Monday, July 16th 11:30 a.m. -1:00 p.m.

Requires pre-registration: \$35 fee/\$25 student rate

This luncheon will feature keynote speaker, Michelle Smith, Associate Research & Development Director and Lead of the Monocot Traits Development team in Dow AgroSciences. Michelle has over 20 years of business and R&D experience in pest management, technology transfer, and communications. She engages in outreach as a Dow AgroSciences Science Ambassador for science programs directed to children and has been a leader in the Women's Innovation Network within the company. Fee includes lunch.

Demonstration of the PhotosynQ Platform I Wednesday, July 18th 12:15pm – 1:15pm

***Located at the Westin Hotel
Requires pre-registration, space is limited***

PhotosynQ is an open science platform that allows researchers, educators, farmers, and citizen scientists to collect, analyze, discuss and share plant photosynthesis related data using low cost handheld devices. This demonstration will allow hands on experience and explanations of the data platform and the MultispeQ photosynthesis monitor. Participants will see the ways this exciting new platform can aid in large scale photosynthesis data collection and building collaborative networks.

Bioinformatics Workshop: Data Carpentry/RNA-Seq Analysis/Custom ePlant I Thursday, July 19th

Requires pre-registration: \$25 fee

This post-conference workshop, hosted by Jason Williams and Nicholas Provart will take place at an off-site venue. Space is limited, register now!