An energized group of more than 1,600 individuals converged in Pasadena, CA, and nearly 500 people joined via live streaming, for the 2015 APS Annual Meeting to learn about the latest discoveries in plant pathology and network with colleagues from around the world. “It changed my life as an undergraduate to see a professional conference with countless networking opportunities,” said one meeting attendee.

The educational opportunities were numerous, with 24 special sessions, 33 technical sessions, two PhytoViews, and 15 Idea Cafés from which to choose. These Scientific Sessions provided in-depth information on important and trending industry topics. “There are a lot of wonderful people who attend and it is a great way to network with others and learn about what’s new in the field of plant pathology,” explained another meeting attendee.

The meeting kicked off with the Opening General Session and Awards & Honors Ceremony, where more than 20 people were honored with an APS award for significant contributions to the science of plant pathology.

This year, more than 750 poster presentations provided attendees an opportunity to showcase their latest research findings with colleagues. This included eight Poster Huddle sessions, bringing together authors of similar topics and creating an atmosphere for in-depth and exciting discussion. Poster presentations are a highly attended piece of the APS Annual Meeting and serve as an important platform for unveiling new research.

The California location offered many opportunities for attendees to venture outside the traditional meeting room through engaging hands-on field trips to local orchards and organic farms, packinghouses, citrus facilities, nurseries, an arboretum, and a vineyard, as well as engaging tours to Pasadena’s stunning Huntington Gardens. Huntington Gardens also graciously opened its doors and offered free admission to all meeting attendees, allowing many to enjoy the 12 gardens and 15,000 plant varieties on the estate.

Dynamic Plenary Sessions offered insightful looks into global issues. Michael Rogers, best-selling author, technology pioneer, and futurist, shared his vision of what the world...
Editor’s Corner

Thanks for the Annual Meeting Memories, Even the Not So Good Ones

Doug Jardine, Kansas State University. PhytoNewsEditor@scisoc.org

Another annual meeting is behind us and I think the consensus of those who attended would be that the program and venue were excellent. For those not able to attend, I hope you were able to enjoy the Awards Ceremony and Plenary Sessions that were live streamed. By the time you read this, recordings of some of the special sessions will be available on the APS website.

If the meeting could have been improved, it would have been by adding helicopter service from Los Angeles International Airport (LAX) to Pasadena. My wife and I landed mid-afternoon and it took 2.5 hours on the shuttle to arrive at our hotel (a distance of about 25 miles). One colleague reported a $150 taxi ride to cover the same distance in about the same timeframe. That got me to thinking that while the program at the annual meeting is always excellent, sometimes the venues leave a little bit to be desired or provide some unexpected delights.

My very first APS national meeting was the 75th Anniversary Meeting, held on the campus of Iowa State University in Ames. Many of the attendees stayed in the dormitories and that week it rained nearly the entire time we were there. The dormitories were incredibly hot and humid with no air conditioning. Attendees cleaned out the local supply of box fans, which in addition to providing cooling, were helpful in drying out our soggy clothes. The following year in Guelph, Ontario, Canada, we were again on a university campus. While the weather was nicer, sessions were held in various buildings on campus and trying to get from one session to another within the timeframe allotted meant many people arrived late for a talk they wanted to hear or did not make it all. That was the last of the campus-based annual meetings.

The 1985 meeting, my first as a faculty member at Kansas State University, was held in Reno. What stands out about that meeting for me was that, as a new faculty member, I had little travel money, so I drove 1,500 miles in a 12-passenger van with five or six graduate students. There are lots of stories to tell about that trip; ask me when you see me some time.

For us graybeards, the 1987 meeting in Cincinnati may have been the most unpleasant ever, thanks to the staff of the Clarion Hotel. The previous convention had a tremendous number of late check-outs and no rooms were ready for arriving attendees. Many of us waited hours to get a room.

The 1993 meeting was held at the Gaylord Opryland Hotel in Nashville. That still ranks as the most incredible hotel ever to host an APS Annual Meeting with its many gardens, waterfalls, and restaurants. Initially, navigation of a complex that large was difficult, but not so bad once you figured it out.

The 1997 meeting in Rochester was one of contrasts. The Industry-Extension Social was one of the best ever, taking us on a tour of upstate New York wineries. That was contrasted with the difficulty of finding dinner options in a town that pretty much rolled up the sidewalks at 5:00 p.m., when downtown workers headed for the suburbs.

Sometimes APS meetings are in the right place at the right time. The 1995 meeting was held in Pittsburgh and coincided with the 25th anniversary of Three Rivers Stadium. Many attendees were able to take advantage of a concert in the stadium highlighted by the Beach Boys and Eddie Money.

Staying on the positive side, two joint meetings with the Canadian Society of Plant Pathology were held in Montreal and Quebec City, in 1999 and 2006, respectively. The splendor of these European-style cities was captivating.

Of course, who can forget the spectacular location of the 2011 meeting in Honolulu? I believe that meeting probably holds the record for spousal attendance. I know there was no way my wife was going to let me go without her!

Each year brings new memories, both good and bad. I am sure many of you have your own stories from over the years. Feel free to share them in a note to the editor. The 2016 Annual Meeting will be held July 30–August 3, 2016, in Tampa. Hopefully, next year’s meeting will be filled with memories that we can cherish for many years to come.
2015–2016 APS Council

Meet Your New APS Council Members for 2015–2016

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APS
APS Welcomes New Leaders, Thanks Outgoing Leaders for Incredible Service

Every year at the conclusion of the APS Annual Meeting several of our key leader positions for various boards and offices transition. This year there was an impressive group of talent that was honored for their long-standing service and for making significant impacts in their important roles for APS, they included Ray Martyn, chair of the APS Foundation since August 2010; Jan Leach, chair of our Public Policy Board (PPB) since 2010; Monica Elliott, director of the Office of Public Relations and Outreach (OPRO) since August 2009; Tim Paulitz, editor-in-chief of APS PRESS since 2013; Doug Jardine, editor-in-chief of Phytopathology News since August 2009; Mark Gleason, editor-in-chief of Plant Disease since 2013; Kenneth Seebold, editor-in-chief of Plant Disease Management Reports (PDMR) since 2012; and Jane Glazebrook, editor-in-chief of Molecular Plant-Microbe Interactions since 2012. Most editor positions will transition in January, but for all of the other positions a new slate of leaders are just kicking off in their responsibilities. Please join us in welcoming the following individuals to their new roles: Bill Dolezal, DuPont Pioneer, APS Foundation chair; Jacque Fletcher, Oklahoma State University, PPB chair; Nicole Donofrio, University of Delaware, OPRO director; and Kerik Cox, editor-in-chief of Plant Disease Management Reports (PDMR). (The other new editors-in-chief will be featured in the January 2016 issue of Phytopathology News when their positions start.)

APS PRESS Bookstore Reaches Near-Record Sales at Annual Meeting

Despite the quaint coffee shops, historic architecture, and botanical gardens, many attendees of the APS Annual Meeting in Pasadena made the APS PRESS Bookstore a go-to destination, resulting in one of the most successful years for the bookstore ever. The key to this success was the launch of 15 new APS PRESS books, along with a diverse collection of more than 350 titles covering literally every aspect of plant pathology and related disciplines.

To celebrate, APS PRESS is extending its storewide sale through the end of this year. All titles in the store, from brand-new ones through to our backlist, are now on sale. And as a bonus, those who order any three titles through October 31 will get the APS PRESS book Insect Pests of Small Grains, a $69 value, for free.

Visit shopapspress.org or call toll-free 1-800-328-7560 in the U.S.A. and most of Canada. Call +1.651.454.7250 elsewhere.

These new top-selling APS PRESS titles—and more than 350 others—are now on sale!

1. The Bacterium of Many Colors
2. Biology, Detection, and Management of Plant Pathogens in Irrigation Water
4. Compendium of Coffee Diseases and Pests
8. Hidden Histories and Ancient Mysteries of Witches, Plants, and Fungi
9. Introduction to Mycology in the Tropics
10. Introducción a la Micología en los Trópicos
12. Plant Diseases and Their Management in Organic Agriculture
14. Trichoderma: Identification and Agricultural Applications
15. Virulence Mechanisms of Plant Pathogenic Bacteria
Featured APS PRESS Title

Thanks to the efforts of the APS PRESS Editorial Board and countless APS volunteer authors and reviewers, the society has published a dozen new titles this year. Learn more about this and other new releases of APS PRESS books at shopapspress.org!

Trichoderma: Identification and Agricultural Applications is the ultimate “how to” book for harnessing the benefits of Trichoderma. This one-of-a-kind book provides details on how to isolate Trichoderma, select and maintain efficacious cultures, formulate them for application, and apply them in the field or greenhouse. The spiral-bound laboratory manual is particularly useful to plant pathologists, biocontrol researchers, diagnosticians, ecologists, and mycologists trying to identify Trichoderma and use their attributes in agricultural applications and studies. No single source provides so much highly detailed information for identifying Trichoderma and selecting and applying useful strains in agriculture.

Authors Gary J. Samuels and Prakash K. Hebbar, both recognized experts in this growing field, draw on and translate the experimental literature to clearly describe the process of identifying Trichoderma cultures to species using molecular and classical techniques. Special features of this book include:

- Full-page illustrations of the morphology of 45 species of Trichoderma
- A synoptic key to the 45 species—the most Trichoderma species ever included in a key
- Explicit methods for taxonomic studies, including microscopy and culture media
- Primers for identification and phylogenetic studies of Trichoderma
- A wide review of the methods used in determining effectiveness in vivo and in vitro for biocontrol and other agricultural applications
- A wide review of methods of application of Trichoderma in agriculture
- A review of the literature concerning the interactions among Trichoderma, host plants, and fungal pathogens
- How to isolate Trichoderma, how to select effective strains, how to maintain strains, how to assay the strains for efficacy in several different systems, and ways to register selected beneficial strains

A special section of the book, entitled “Interactions Among Trichoderma Species, Plants, and Their Pathogens: A Primer,” offers a layman’s point of view for agriculturalists who want to understand how this beneficial microorganism interacts with the plant and its pathogens. Trichoderma: Identification and Agricultural Applications is an excellent catalyst for the promotion of current applications and the development of new advances in crop management techniques in a range of disciplines, including plant pathology, mycology, ecology, and diagnostics.

Visit www.shopapspress.org to learn more about this and other important titles from APS PRESS. Members: take advantage of your 10% discount off this and other useful titles in the APS PRESS bookstore. Looking to publish your book with the leading plant pathology publisher, as well as support your society and your science? Contact APS PRESS acquisitions editors Chris Mundt (mundtc@science.oregonstate.edu) or Dennis Gross (d-gross@tamu.edu) to share your ideas for a new title.

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Support Your Society

Subscribe to the APS Image Database

Don’t wait for your membership renewal. Subscribe today!

During the 2015 APS Annual Meeting in Pasadena, many attendees got a personal tour of the new online APS Image Database by participating in a popular demonstration and visiting the APS PRESS Bookstore. One of the typical comments among attendees was, “I’m planning to wait for my membership renewal before subscribing.”

But you don’t have to wait. Member subscriptions are now prorated to match your member renewal period, allowing you to conveniently use the database right away. APS President Sally Miller explains the importance of subscribing early:

“This is a new initiative from APS Council in one of our society’s strongest areas. It needs the support of the membership so we can continue to add the thousands of APS PRESS images that are published by our many wonderful volunteer scientist authors,” said Miller. “One of the strengths of APS is its image collections, and your use of APS images is critical.”

Images from the database are sourced from select titles, including the trusted APS PRESS compendium series and others. They cover the scope of our science, including diseases caused by fungi, oomycetes, bacteria, viruses, phytoplasmas, viroids, and now, even insect pests, mites, worm pests, and noninfectious disorders. In the future, other collections will be added on an ongoing basis.

This database is the perfect resource for speakers who give PowerPoint-based classroom, extension, and industry presentations. And with just a click of the button, they can be converted into fact sheets full of peer-reviewed scientific information. This database is also useful for diagnosticians and for research purposes. The APS Image Database offers unlimited access to high-quality images for educational use, 24/7 accessibility, an easy-to-use search interface, and downloadable fact sheets full of peer-reviewed scientific information.

Subscribe today at the low introductory price of $49 at www.apsnet.org/imageDB. Most members will pay less than that due to prorating. Be sure to sign in to the website with your member user name and password before subscribing!

NOTE: Subscribers may freely use unlimited images in their PowerPoints from the APS Image Database for educational, noncommercial use. Images may also be used in extension bulletins with certain restrictions. A separate fee and written request for commercial use is required.

Congratulation APS Outstanding Volunteer Award Winners

APS is a nonprofit organization that would not exist were it not for the dedication and tireless work of a wealth of member volunteers. The health and success of APS relies on the heavy lifting of these volunteers. The councilors-at-large have the pleasure of selecting the APS Outstanding Volunteer Award winner from nominations submitted by you. We were fortunate to receive nominations for several excellent candidates this year and we thank the nominators for taking the time to prepare those submissions. We are pleased to announce that this year’s winners are two individuals who have unwavering dedication to teaching and education and whose leadership as volunteers has made a significant positive impact.

Maya Hayslett is a senior instructional specialist at the University of Wisconsin, and Anissa Poleatewich is a plant pathology research scientist at the Vineland Research and Innovation Center in Ontario, Canada. Hayslett and Poleatewich were founding members of the APS Office of Education (OE) and their endless efforts have led to a number of initiatives for, symposia on, and improvements to plant pathology education. Hayslett chaired a subcommittee of OE focused on special sessions for education at APS meetings. Hayslett and Poleatewich provide a strong, highly active connection between OE and the APS Teaching Committee, which Poleatewich and Hayslett currently chair and vice chair, respectively. Currently, they are working as a team on developing an APS webinar series on blended learning. This is just the tip of the iceberg of the volunteer efforts from our two exceptional winners for 2015. Hats off to both of you for your devotion to APS and to improving the ways we teach and learn plant pathology.
STUDENT PERSPECTIVE

Undergrads Feel Welcome at First APS Annual Meeting

Megen Morales, Fresno State University, megkmorales@gmail.com

Ten California State University, Fresno (Fresno State) undergraduate students had the privilege of attending the 2015 APS Annual Meeting held in Pasadena, CA, to advance their knowledge of scientific advancements in the agriculture industry and to expose them to higher education opportunities. Students attended the conference with the Plant Health Society, a university-wide organization that promotes higher education and research in agriculture. Fresno State helped support the trip by providing funds and transportation for the student delegates looking to advance their education beyond a bachelor’s degree. Maggie Ellis, Fresno State’s Plant Health Society advisor and plant pathology assistant professor, along with Chris Wallis, USDA, served as mentors to the students throughout the entire conference.

“What we do not see and do not know does not exist in our personal world. By exposing our students to opportunities they were previously unaware of opens the door for them to impact the agriculture industry in a way [they] never thought possible,” stated Julie Pedraza, coordinator of the students attending the event.

Pedraza’s mentality and motivation to encourage Fresno State undergrads was valuable as several students attending the conference found their calling. A new-found interest in ecology, genomics, and plant breeding came to surface within Crystal Espindola, Noemi Fonseca-Espinoza, and Omar Carrillo as they have now decided to pursue a higher education in their respective disciplines. Fonseca-Espinoza said that, “Before attending the conference I wasn’t sure what my future career entailed, however, after attending the genomics sessions and lectures it was clear to me that I wanted to work with genetics.”

Other students, including Robert Ullo, Angel Lozano, Andres Rubio, Sarah Parry, and Charlie Garcia, connected with current graduate students and plant pathology department chairs from prestigious universities. Some were even given invitations to continue their education at universities in Michigan, Kansas, Washington, Pennsylvania, and Wisconsin and even study abroad.

The five-day conference provided sessions that were inspiring, motivating, and eye opening for all of the Fresno State students. “As an enology undergraduate student, I really didn’t think a plant pathology conference would suit me, but lo and behold I found sessions that met my educational needs as well as broadened my horizons on a multitude of different subjects and made some great networking connections along the way,” said Megan Morales. Fresno State’s motto “#Be Bold” held true to the undergrads as they ventured outside of their comfort zones to explore the diverse career options before them, all of which made connections both on personal and professional levels to expand their networking availability throughout the world. The opportunities in the agriculture field are limitless, and APS only brightened and secured the educational goals of these 10 undergraduates. On behalf of the student delegates, we would like to thank all those who gave us the support and encouragement to make this educational advancement a reality.

Art in Phytopathology Produces Stunning Pieces for Seventh Year

The Art in Phytopathology Contest, organized by the APS Graduate Student Committee and sponsored by BASF, produced more than 40 works of stunning art from under the microscope to out in the field. Thank you to everyone who submitted a piece to this year’s competition. Congratulations to the following contest category winners: Humor and Best in Show—Cedar Apple Lust by Karasi Mills; Arts and Crafts—Medus-asci by Snježana Topolovec-Pintarić; Microscopy—Us by Rodrigo Pedrozo; Digitally Altered—Focus by Utsala Shrestha; and Nature—Gothic Tree by Gaston Laflamme. Photographs of all of the contest entries are now online at www.apsnet.org/members/apsleadership/comm/Pages/ArtinPhytoResults.aspx.
Now Accepting 2015 APS Awards Nomination Submissions

The 2016 APS and APS-sponsored award nominations to be presented in Tampa, FL, at the 2016 APS Annual Meeting are now being accepted. Nominations are open for all major APS awards as listed below and must be submitted on or before November 1, 2015.

- Award of Distinction
- Fellow
- Distinguished Service Award
- Excellence in Extension Award
- Excellence in Industry Award
- Excellence in Regulatory Affairs and Crop Security
- Excellence in Teaching Award
- International Service Award
- Ruth Allen Award
- William Boright Hewitt and Maybelle Ellen Ball Hewitt Award
- Lee M. Hutchins Award
- Noel T. Keen Award for Research Excellence in Molecular Plant Pathology
- Syngenta Award

Complete instructions and guidelines for submitting an award package are available on the APS website. The nomination form must be complete and included in the submitted nomination package. The submission page link is included in the instructions at www.apsnet.org/members/awards/Pages/AwardsCallforNominations.aspx.

APS Foundation

Don’t Wait For the Deadline, Submit Your Foundation Award Applications Online Today

Application periods are now open for several APS Foundation international and student awards. For the 2016 award cycle, completed applications for the following awards must be uploaded using the new online submission process by October 31, 2015. For additional information on each open award and submission requirements, please visit www.apsnet.org/members/foundation/apply.

International Scientists Awards

- Books for the World Award ($500/award)—This award was established to help scientists, educators, extension personnel, and other agriculturalists in developing countries acquire educational materials from APS PRESS and promote international distribution of other APS resources.
- French-Monar Latin American Award (up to $1,000)—This award assists Latin American plant pathologists in attending the 2016 APS Caribbean Division Meeting, 2016 APS Annual Meeting, or any other plant pathology-related meeting in Latin America.

Undergraduate and Graduate Student Awards

- J. Artie and Arra Browning Plant Medicine and Health Travel Award ($500)—This award supports travel of a student in a Doctor of Plant Medicine, Doctor of Plant Health, and similar programs to attend a professional society meeting of any plant health or plant protection discipline.
- Frank L. Howard Undergraduate Fellowship ($1,000)—This award supports undergraduate research projects in plant pathology.
- Mathre Education Endowment Award (up to $1,000)—This award supports plant pathology education programs and students pursuing a variety of projects and experiences.
- Student Educational Award ($500)—This award supports students’ endeavors to further their education outside the APS Annual Meeting.
- Raymond J. Tarleton Student Fellowship Award ($1,500)—This award supports plant pathology graduate students in their research and careers.

View the Latest Crop Protection Webcasts from PMN

Find these and other webcasts, conveniently accessible 24/7 in the PMN Education Center or in PMN’s series of commodity-specific “Focus on” resources, all located at www.plantmanagementnetwork.org.

FOCUS ON CORN: RNA Interference as a Pest Management Tool for Western Corn Rootworm by Ana Maria Velez Arango, University of Nebraska-Lincoln

FOCUS ON COTTON: Equipment Mounted Sensors for VRA in Cotton by Randy Taylor, Oklahoma State University; and Lygus Management in Texas High Plains Cotton by Megha N. Parajulee, Texas A&M University

FOCUS ON POTATO: Managing Diseases with Biopesticides in Potato Production by Amanda Gevens, University of Wisconsin-Madison; Best Management Tactics and Fungicide Resistance in Alternaria Populations (Early Blight and Brown Spot) by Lydia Tymon, Washington State University; and Preventing the Spread of Potato Viruses: What Insecticides Can and Cannot Do by Andrei Alyokhin, University of Maine

FOCUS ON SOYBEAN: Soybean Stem Canker: Re-emerging? by Febina Mathew, South Dakota State University; Soybean Vein Necrosis Virus by Damon Smith, University of Wisconsin-Madison; Big Data and Implications at the Farm by John Fulton, The Ohio State University; and Impact of Neonicotinoid Insecticide Applications on Spider Mites in Soybeans by Ada Szczepaniec, South Dakota State University

PMN’s webcast resources are an excellent venue for grant outreach. Learn how PMN can help with your grant-funded outreach efforts by contacting Phil Bogdan (pbogdan@scisoc.org) or +1.651.994.3859.
It was the morning of October 27, 2014, and I was on my way to the Eisenhower Executive Office Building for my first day as a policy fellow at the White House Office of Science and Technology Policy (OSTP). I was excited and nervous. What would my colleagues be like? What kinds of projects would I get to work on? What do people in the White House actually do anyway? And would anyone notice my embarrassing Disney Princess Band-Aide? Okay, let’s take off the Band-Aide and just not deal with that question today.

After spending a year as legislative fellow in the House of Representatives, I had an inklings of what “science policy” meant, but it is, in fact, a broad field with many facets. What would science policy work look like at the White House?

What exactly is “science policy”? I learned in Congress that, confusingly, it’s mainly two things: “policy for science” and “science for policy.” “Policy for science” includes all of the rules, regulations, and coordination that guides science and research. For example, Congress may pass a budget that gives funding to a particular agency, but that funding often comes with a series of instructions for the agency; the money must be spent in this way or for that purpose. The conversations, hearings, data calls, consensus building, and, ultimately, the writing of the budget—which is law—is all “policy for science.” On the other hand, there are many issues, from criminal forensics to nutrition labels, that require sound advice from the scientific community for policy-makers to weigh in intelligently. The science underpinning that advice is “science for policy.”

Fortunately for me, the work at OSTP also falls into these two categories. Challenging, though, was that many of the tools and strategies that work in Congress, writing laws, for example, do not apply in the Executive branch. I’m still working with budgets, building consensus, and, above all, communicating the wealth of scientific information from the academic community to the policy world, but the scope is different. In Congress, one small change in a law can have vast, far-reaching consequences, and because each individual representative is powerless without allies, many stick to a handful of small, targeted projects. In the White House, however, projects must be large-scale and high-impact to be worthy of presidential, if not global, attention. Instead of being responsive to those constituents in your approximately 700,000-person district, the White House is responsive to the 320 million people in the country, and your “little” projects, some might argue, carry weight around the planet.

I launched two such broad-scope projects as an APS fellow. One, an initiative to support and promote microbiome research, dovetailed beautifully with APS’s own goals for the phytobiome. Like APS, OSTP first had to make sure that the ideas for a federal initiative were consistent with those in the scientific community. Just as APS has hosted meetings and supported activities to gain insights into what is needed to advance a comprehensive understanding of the phytobiome, as a fellow at OSTP, I hosted meetings, chartered and co-chaired committees, performed a government-wide data call, and published a request for information in the Federal Register in order to gain insights into what is needed to move all microbiome science from descriptive to predictive. I have also been reaching out to representatives in industry and foundations to gain perspective there.

Encouragingly, the same kinds of needs that plant biologists cite as necessary to advance understanding of the phytobiome are echoed by scientists in all fields. From marine biologists to medical doctors to agronomists, scientists want to know the same things: what makes a microbiome healthy, what factors must be measured to predict microbiome changes, and how do microorganisms interact and communicate with each other and their hosts? All agree on the need for democratized tools, like single-cell, scalable, “omics” measurements and an open, flexible, user-friendly database. Across the board, scientists recognize the need for computational biologists and other “big data” specialists, standards for collecting and analyzing data, and reference data. Above all, scientists recognize the need for interdisciplinary teams; not only should biologists team up with physicists, engineers, and computer scientists, for example, but soil chemists and plant pathologists need to team up with marine biologists, nutritionists, and healthcare workers.

Developing and confirming a consensus was just the beginning. Now the question becomes what to do about it. Even though Congress passes the budget, OSTP can help coordinate efforts among departments and agencies to address the very needs and gaps the consensus identified within the limits Congress sets. Federal policies and even international partnerships are within the scope of OSTP, and, above all, the White House is a terrific platform for emphasizing the importance of a new concept or technology.

Now, as I make my way through the security checkpoints in my last couple of months as an APS fellow, I’m no longer nervous, but I am still excited. I focus on the few goals I hope to meet before my time is up, and I am confident that the projects I put into motion will continue to roll ahead, supported by the many other policy-makers and scientists excited by the possibilities of what’s next and the incredible spotlight that support from the White House brings.
Huntington Gardens provided the perfect location for Take a Walk sessions.

APS took to the streets for an outdoor celebration with California fusion cuisine, great conversation, and music.

More than 750 posters were on site, presenting the latest research in the field.

Field trip participants look at citrus facilities and learn of efforts in California to combat Asian citrus psyllid and huanglongbing.
APS President Rick Bennett welcomed the 1,600 attendees to the meeting; 2015 Annual Meeting Program Chair Sally Miller addresses the crowd; Plenary speaker Doug Parker discussed California’s drought and drought response efforts.

The Industry and Extension Networking Event was held at historic Castle Green (left). Well-attended Poster Huddles brought together similar research topics for discussion (right).

Small groups gathered for intimate Idea Café discussions in an informal setting.

Plenary speaker Scott Zimmer, generation expert, discussed bridging the generational gap in the workplace (left). Plenary speaker Michael Rogers, futurist, share his vision of the future (above).

Attendees of the Leadership Institute Workshop experienced the impact of “Emotional Intelligence” in a hands-on exercise.
Assembling Community Input for Phytobiomes Roadmap

The Phytobiomes Research and Translation Roadmap draft is currently being circulated for broad community input and review. The key challenge for the Phytobiomes Initiative is to develop a path for generating a comprehensive, systems-level understanding of all of the components in agronomically important plant biomes (i.e., phytobiomes) and translate the resulting knowledge into broad improvements in the productivity and sustainability of agroecosystems and forests. We are encouraging the comments, edits, or suggestions on this document to ensure a breadth of perspectives are included. Comments were recently collected at the APS Annual Meeting in the PPB Booth, but if you didn’t have a chance yet to provide your input, please make sure to do so by October 15. Visit www.phytobiomes.org/roadmapinput for the full document and input form.

Office of Private Sector Relations

Office of Private Sector Relations Hosts Successful First Tour

The APS Office of Private Sector Relations (OPSR) recently held it first-ever Private Sector and Government Institutions Tour. The tour, led by Courtney Gallup and held in Research Triangle Park, NC, July 14–15, was a success with 24 graduate students and post-docs in attendance. The goal of the tour is to provide attendees with the opportunity to learn more about careers outside of academia.

Attendees began the tour at Syngenta Biotechnology. APS Councilor-at-Large Eric Tedford kicked off the first visit with an overview of current Syngenta projects and the process to push a new product to market. It takes approximately 12–15 years to bring an idea to fruition, and they learned about each stage of the development process and the different focuses of each. Attendees also found out more about positions that are available to plant pathologists outside of the scope of a research scientist. Following presentations, attendees were given a tour of the new state-of-the-art greenhouse.

Attendees then visited Bayer CropScience. The tour, led by George Musson and Mike Schwarz, gave a different perspective as attendees visited the Bayer Bee Care Center, part of Bayer’s stewardship program. They were able to learn about how bees are a vital part of the plant growth process and how Bayer is actively promoting good agricultural practices and safe implementation around pollinators. Attendees also walked through an office area to learn a bit more about culture outside of fieldwork and finished the tour with a visit to a greenhouse, laboratory, and seed warehouse.

Following the first day, attendees had dinner with local APS members who worked in the private sector and were able to ask questions about everything from day-to-day tasks to interview tactics.

On July 15, attendees visited a Dow AgroSciences field site to learn about how fieldwork integrates with the product characterization process and supports efforts to bring a product into the market from Randy Huckaba. Attendees were also introduced to a local farmer who spoke about his day-to-day work and how he helps provide valuable insight into product research through collaboration.

Following the field visit, attendees headed to the USDA APHIS Plant Protection and Quarantine (PPQ) Center for Plant Health Science and Technology (CPHST) on North Carolina State University’s Centennial Campus. Led by Christina Devorshak, attendees participated in a Q&A session with a handful of scientists working on everything from emergency disease response to preventing the movement of pathogens and other plant pests in international trade and through other pathways. They spoke about current USDA APHIS initiatives and how to apply for jobs with the federal government.

The last stop on the tour was at Monsanto Company, where attendees were treated to an exciting presentation of an automated greenhouse led by Susanne Kmørtrup. The greenhouse processes thousands of pots per day, including imaging, watering, and weighing to measure plant growth and development.

OPSR aims to hold a similar tour in the future in a new location. If you have ideas for a tour in your region, please contact Courtney Gallup (cagallup@dow.com) for more information. OPSR would like to thank all of the attendees and all of the local organizations and private sector representatives who helped make this tour a huge success.

Important APS Dates to Remember

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<th>October 2015</th>
<th>November 2015</th>
<th>January 2016</th>
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<td>31 Books for the World applications due</td>
<td>1 Applications due for APS Awards</td>
<td>15 OIP Global Experience applications due</td>
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<td>31 French-Monar Latin American Award applications due</td>
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<td>31 Applications due for J. Artie and Arra Browning Plant Medicine and Health Travel Award</td>
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<td>31 Frank L. Howard Undergraduate Fellowship applications due</td>
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<td>31 Applications due for Raymond J. Tarleton Student Fellowship Award</td>
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Go Global—Apply for the Global Experience Program

The Office of International Programs established the Global Experience Program to help APS plant pathologists work with scientists and extension personnel in developing countries in training and outreach efforts. The application process for the 2016 program is now open until January 15. The program is open to all APS members to conduct short courses, workshops, or training programs in collaboration with a cooperating institution in a developing country. Teams of a senior and junior plant pathologist are encouraged. Development of training/extension materials for the workshop will also be supported by this program. Up to $3,000 ($4,000 for teams) will be available to support travel and training material costs. Learn more about the program and application requirements at www.apsnet.org/members/outreach/OIP/pages/GlobalExperience.aspx.

OIP Holds Exciting 11th Annual Silent Auction

The Office of International Programs (OIP) held its 11th Annual Silent Auction in Pasadena during the annual meeting. This year’s auction, with a new mobile bidding option, added extra excitement to the event. The auction also helped put the total amount of funds raised for the OIP Global Experience Program over $30,000. Thank you to everyone who bid using the new online/mobile bidding tool and to everyone who donated an item.

If you love donating to the Silent Auction, OIP will now accept item submissions year-round! When you are traveling, bring back a unique item to donate, fill out the form online, and submit a photograph of your items. You will be able to preview items online prior to the 12th Annual Silent Auction in Tampa, FL, on July 31, 2016. Also new in 2016, OIP will accept individual sponsorships for the event. Sponsorships help keep event costs low so all funds raised can go directly to the Global Experience Program. Visit the Silent Auction website for more information on how to donate, sponsor, or to check out photos from this year’s event at www.apsnet.org/members/outreach/oip/Pages/SilentAuction.aspx.

People

Student Awards & Degrees

Abby Beissinger, an M.S. student advised by Debbie Inglis in the Department of Plant Pathology, Washington State University, was a recipient of the Great Lakes National Scholarship ($2,500). This scholarship, from Great Lakes Educational Loan Services, Inc., is awarded to students pursuing excellence in STEM fields. Beissinger's research focuses on how plant pathogens affect food systems and people, via a project involving Potato virus Y (PVY) in western Washington.

Danny A. Humphreys-Pereira recently completed the requirements for his Ph.D. degree in plant pathology at Washington State University (WSU). His dissertation was entitled “Genetic diversity and comparative mitochondrial genomics of root-knot nematodes (Meloidogyne spp.).” His committee included Tobin L. Peever (chair for one year), Axel A. Elling (chair for four years), Jeremiah W. Busch, Timothy D. Murray, and Timothy C. Paulitz. He characterized four types of M. chitwoodi using light and scanning electron microscopy and molecular markers. He described a new Meloidogyne species associated with coffee in southern Costa Rica, and developed a PCR-RFLP system to differentiate coffee-parasitizing Meloidogyne species. He will work at the University of Costa Rica and teach Introduction to Nematology and Management of Nematodes.

Carly Summers and Sara Villani are the 2015 recipients of the Robert Gilmer Graduate Student Award. Former Cornell University (CU) plant pathology graduate student, Frank Wong, now the technical service specialist for Bayer CropScience in the United States, presented a seminar at the New York State Agricultural Experiment Station at Geneva prior to a reception for the awardees. The award is named in honor of Robert M. Gilmer, a member of CU’s Department of Plant Pathology at the Geneva Experiment Station from 1950 to 1975. His generous gift created the endowment that bears his name. The award includes a grant to further the recipient’s research and professional development. Summers and Villani received the award in recognition of their excellence in academics, research, and service to the section of plant pathology and plant-microbe biology. Summers and Villani conducted their Ph.D. research at CU’s Geneva Experiment Station under the direction of Christine Smart and Kerik Cox, respectively.

People continued on page 134
Laura Weineth recently completed requirements for her M.Sc. degree in plant pathology from Iowa State University. Her thesis, “Seedborne black Aspergillus species as maize seedling pathogens: Role of fumonisin production and interaction with soilborne Pythium species,” was completed under the direction of Alison Robertson and Gary Munkvold. Weineth is planning to study Chinese at the Jiangnan University, Jiangsu, China, and to potentially work toward obtaining a Ph.D. degree in China.

Ashley West recently completed requirements for her M.S. degree in plant pathology from Iowa State University. Her thesis, “Ecological specialization of Tubakia tounensis and searching for resistance to bur oak blight,” was conducted under the direction of Thomas Harrington. West is working as a publications assistant at Iowa State University.

Awards

Chris Luley of Naples, NY, is this year’s recipient of the International Society of Arboriculture’s (ISAs) R.W. Harris Author’s Citation Award. This award of distinction is given to authors who consistently publish works providing information on research in the field of arboriculture. Luley, vice president and pathologist for Urban Forestry LLC in Naples, has published more than 50 technical articles and given presentations on a wide range of urban forestry and pathology topics.

Thomas K. Mitchell, associate professor in the Department of Plant Pathology at The Ohio State University (OSU), was awarded a North American Colleges and Teachers of Agriculture (NACTA) Educator Award at the NACTA 2015 Annual Conference at the University of Georgia in June. Mitchell is the undergraduate coordinating advisor for plant pathology and plant health management majors at OSU, advises graduate students, and is the chair of the department’s Academic Affairs Committee. He also serves on academic curriculum committees for OSU’s College of Food, Agricultural, and Environmental Sciences and the Graduate School, where he is involved in curriculum development and program assessment. Mitchell has taught several courses in mycology, advanced fungal genetics, and the history of plant pathology. He also established a general education course, Molds, Mushrooms, and Mankind, to introduce undergraduate students to fungi and plant pathology. Mitchell is the current director of the APS Office of Education.

Raghuwinder “Raj” Singh, assistant professor in the Department of Plant Pathology and Crop Physiology, Louisiana State University (LSU), received the Louisiana County Agricultural Agents Association (LCAAA) Achievement Award at their 69th Annual Meeting in Monroe, LA. He received this award in recognition of his outstanding state-wide extension outreach program and exceptional services in the areas of plant health diagnostics to the county agents and other members of the LCAAA.

Collaboration

Jim Davis and Megan Wingerson from the Canola, Rapeseed, and Mustard Program at the University of Idaho visited Lindsey du Toit’s vegetable seed pathology program at the Washington State University Mount Vernon Northwest Research and Extension Center (NWREC) for a hands-on workshop. The workshop covered lab and greenhouse methods of working with the brassica black leg pathogen, Phoma lingam (Leptosphaeria maculans and L. biglobosa), Davis and Wingerson worked with du Toit and Mike Derie, scientific assistant in her program, on inoculating brassica seedlings, isolating the pathogen from infected plant material, culturing the fungus, single-spore isolations, seed health assays, etc. This workshop was held in response to the 2014 outbreak of black leg across the Willamette Valley of Oregon, as well as finding black leg in more than 15 winter canola crops in Idaho and in winter canola crops in Umatilla County, OR, in spring 2015.

Merete Halkjaer Olesen, plant pathologist at Aarhus University in Flakkebjerg, Denmark, visited Lindsey du Toit’s vegetable seed pathology program at the Washington State University Mount Vernon Northwest Research and Extension Center (NWREC) to work on diseases in spinach, table beet, and Swiss chard seed crops in northwestern Washington. Olesen’s research has focused on diseases in spinach seed production in Denmark, where about 15,000 acres of spinach seed crops are grown annually.

Retirement

Raymond D. Martyn, Jr. retired from Purdue University (Purdue) on December 31, 2014, after 38 years of teaching and research, 20 years at Texas A&M University (TAMU), and 18 years at Purdue University. He earned his B.S. (biological sciences) and M.S. (microbiology) degrees from Florida Atlantic University and received a Ph.D. degree (plant pathology) from the University
of Florida in 1977. After completion of his doctoral program, Martyn accepted a position as an assistant professor in the Department of Plant Pathology and Microbiology (formerly Department of Plant Sciences) at TAMU, advancing to rank of professor. In 1997, Martyn accepted the position of professor and head of the Department of Botany and Plant Pathology at Purdue, serving as head for 8.5 years. He also served two years as the inaugural director of the Center for Plant Biosecurity at Purdue.

His initial research focused on biological control of aquatic weeds, and he led an effort to document effectiveness of a biological control program to rid Lake Conroe, a 20,000-acre reservoir in Texas, of an invasive aquatic weed species. Shortly thereafter, he embarked on a long career working on soilborne diseases of melon and watermelon. He identified and characterized a new race of *Fusarium oxysporum* f. sp. *niveum*, casual agent of Fusarium wilt of watermelon, that was virulent on all resistant cultivars, and was instrumental in demonstrating the role of seed transmission in dissemination of the pathogen. Subsequently, his group identified a new source of resistance to the new race that was publicly released to plant breeders and seed producers. He collaborated with colleagues on other Fusarium wilt diseases, including Fusarium wilt of cotton and sugar beets. In the late 1980s, a vine decline disease of unknown etiology began causing extensive losses to cantaloupe and watermelon in Texas. Martyn and colleagues lead the effort to identify and characterize the pathogen, *Monsoracus cannonballus*, investigated the epidemiology of the disease, developed a rapid PCR-based detection protocol, identified and associated dsRNAs with a degenerative and hypovirulent pathogen phenotype, and developed effective management tactics. Martyn became recognized worldwide as an expert on Fusarium wilts and soilborne diseases of melons and watermelons. He has published more than 100 research papers, reviews, and book contributions and presented over 60 invited national and international lectures and seminars.

Martyn had a significant teaching load during his entire 38-year career and quickly established a reputation as a great instructor. During his 20 years at TAMU (1977–1997), he taught five different graduate and undergraduate courses and taught one or two courses every semester. He was recognized multiple times for his effectiveness as an instructor and student mentor by being named outstanding professor of the department three times. In 1995, he was awarded the Texas A&M Former Student’s Association Distinguished Teaching Award, the highest teaching award at TAMU. In addition to classroom teaching, he mentored numerous M.S. and Ph.D. graduate students. In 1997, he moved to Purdue as department head, where he helped lead the department back to a top-five ranked department in the United States. While head, Martyn continued to teach the beginning graduate course, Principles of Plant Disease Management, every spring semester. After stepping down as department head in 2008, he began teaching the beginning level Introductory Plant Pathology class every fall semester in addition to the disease management course every spring.

Throughout his 38-year career, he was in the classroom almost every semester, and through it all, consistently received the highest student evaluations. Martyn’s teaching philosophy was to make plant pathology relevant to every student and he used numerous examples and stories to get his points across. Frequent student comments were: “Dr. Martyn has the ability to make very difficult concepts seem easy” and “…he relates to students and makes plant pathology seem like the most important class at the university—he is truly passionate about his teaching.” Although examinations were a necessary part of the class, he believed that the process of taking the exam, not just the material, should have value too and be part of the learning experience for students. Thus, his exams were provocative and challenged students to “dig deep.” While Martyn had many hundreds of students in his classes over the years, his proudest moments came when a student took Introductory Plant Pathology for the first time and ended up changing his/her major and ultimately went on to graduate school in plant pathology. Over his career there were many such cases.

Throughout his career, Martyn devoted his time and energies to the service of his science, his professional society, and the academic institutions at which he was employed. As head of the Botany and Plant Pathology Department at Purdue, he coordinated the job search and hiring of 11 faculty members during a time when most universities were downsizing faculty. Many of those faculty played a substantial role in the department’s recognition within the college as one of most successful in securing extramural support for their research and extension programs. During this time also, the graduate student program increased by over 150%. He and his wife Carol hosted numerous graduate student and post-doctoral socials at their home and thoroughly enjoyed the interactions. The annual dart tournament was always a hit, as well as introducing students from around the country and world to Texas bar-b-que.

Martyn served APS and several of its divisions in numerous appointed and elected roles. He was APS Southern Division vice president/president (1995–1997) and instituted a program to select senior graduate students with leadership potential to cochair contributed paper sessions at the division’s annual meeting, thereby fostering their leadership skills and involvement in APS. As APS North Central Division councilor from 2002 to 2005, he worked with the Office of International Programs to help foster better global relationships with other plant pathology societies. He was elected APS vice president in 2006 and during his tenure as vice president/president-elect/president, he had an especially significant impact on our society. He worked closely with the American Society of Agronomy and the Crop Science Society of America to develop a Memorandum of Understanding on the joint management of The Plant Management Network, and established a Joint Executive Committee to provide leadership and vision, and oversee management of PMN. As president-elect, he worked with the International Seed Federation and established an ad hoc committee to pursue potential opportunities in formulating international standards for the nomenclature of specific seed pathogens. As APS president, he initiated a restructuring of the society’s governance model (APS Council) in an effort to make it more efficient, nimble, and strategic, which ultimately was passed by the general APS membership. In 2008, he served as president during the highly successful Centennial meeting of the society, a year in which a benchmark membership of more than 5,000 members was achieved. Most recently (2009–2015), he served as chair of the APS Foundation and developed its first five-year strategic business plan. During his tenure as chair, the foundation experienced a 100% growth in its portfolio and initiated several new endowments. In 2010, Martyn was elected a fellow of APS. He and Carol retired in Cape Coral, FL, in January 2015.
Classifieds

Assistant Professor (Nematology)
University of Florida seeks an assistant professor (nematology). This is a 12-month, tenure-tenure accruing position that will be 70% research (Florida Agricultural Experiment Station) and 30% teaching (College of Agricultural and Life Sciences), available in the Entomology & Nematology Department, Institute of Food and Agricultural Sciences. This assignment may change in accordance with the needs of the unit. The incumbent will specialize in the study of molecular interactions between nematodes, plants, and/or microbial symbionts/pathogens for improved pest management. Opportunities exist to participate in interdisciplinary research teams. The candidate will actively seek extramural funding to develop and support internationally recognized research and teaching programs. Tenure will accrue in the Entomology & Nematology Department. The candidate will participate actively in scholarly activities related to instruction, including teaching an undergraduate introductory nematology course and a graduate course in their area of specialization, chairing and serving on graduate committees, supervising undergraduate and graduate research and creative work, publishing the results with his/her graduate students, participating in curriculum revision and enhancement, seeking funding for the teaching program, publishing teaching-related scholarship, producing learning tools, and engaging in professional development activities related to teaching and advising. Individuals wishing to apply should go online to https://jobs.ufl.edu.

Assistant Professor of Plant Pathology
Montana State University-Bozeman, the Department of Research Centers in the College of Agriculture, seeks applications for a 12-month, tenure-track assistant professor of plant pathology to perform research at the Eastern Agricultural Research Center (EARC) located in Sidney, MT. Duties include, but are not limited to, development of a field-oriented research program that focuses on disease management in pulse crops, sugar beets, and other crops under production in this Montana region. The successful individual will also provide expertise to other research programs in the department, college, and MAES as appropriate. Developing an integrated approach for disease management is expected. The individual is expected to cooperate with other scientists, educators, farmers, and related industries, advisory, and commodity groups to develop research priorities and actively participate in developing recommendations for management of pulse crops, sugar beet, and other crop diseases. Securing extramural funds from state, regional, and national sources, as well as the agricultural industry, is required. The position is expected to communicate research findings in oral and written formats, including refereed publications. Participation in outreach and service activities is expected. To apply, please visit https://jobs.montana.edu/postings/2502.

Post-Doc (Two Positions)
The Citrus Research and Education Center (CREC) is seeking candidates for two full-time post-doc positions to aid and support the faculty member in plant pathology for three years. Position 1: Conduct research experiments, collect data, calculate or record results, prepare reports, and write journal articles. The responsibility of the position is to study beneficial bacteria and develop products to promote plant health and growth. The candidates should have a strong background on product development, fermentation of bacteria, and biocontrol. A significant record of productivity as demonstrated through refereed publications is preferred. Previous experience in industry is desired, but not required. Position 2: Conduct research experiments, collect data, calculate or record results, prepare reports, and write journal articles. The responsibility of the position is to study plant defense inducers and develop products to control citrus HLB or greening. The candidates should have a strong background on product development, adjuvants, chemistry, plant physiology, or plant defense inducers. A significant record of productivity as demonstrated through refereed publications is preferred. Applicants should send their transcripts, resumes, names, and addresses of three references to Nian Wang, University of Florida Citrus Research and Education Center, 700 Experiment Station Road, Lake Alfred, FL 33850.

Assistant Professor—Plant Pathology: Plant-Pathogen Interactions
The Department of Plant Pathology of the University of Arkansas System Division of Agriculture and the University of Arkansas-Fayetteville invites applications to fill a 12-month, tenure-track faculty position (80% research, 20% teaching,) with a basic and applied emphasis on host-pathogen interactions. The candidate will be expected to develop a robust, extramurally funded research program focused on fundamental and/or applied aspects of plant-pathogen interactions; demonstrate excellence in grantsmanship, present research results in peer-reviewed publications, and teach graduate- and undergraduate-level courses; and advise and mentor graduate students, provide service to the department, college, university, and state as appropriate for his/her expertise, and collaborate effectively with departmental research and extension faculty, and colleagues in related disciplines. Preferred applicants will utilize genetic, genomic, and/or molecular approaches to study host-pathogen interactions. Preferred applicants will focus on host-pathogen interactions of commodities of importance to Arkansas agriculture. All interested candidates must submit an application online at http://jobs.uark.edu:80/postings/7883 and include a statement of research interests; a statement of teaching philosophy and interests; CV; graduate academic transcripts; and three professional references. Potential candidates are encouraged to contact Jim Correll with questions about the position (jcorrell@uark.edu) or +1.479.283.1628. This position is open until filled.

Purdue University: Faculty Position—Plant Pathology/Epidemiology
The Department of Botany and Plant Pathology at Purdue University is seeking applications for a faculty position in epidemiology at the assistant or associate professor level. The position is tenure track, with an academic year appointment. The primary responsibility involves research on the epidemiology of plant diseases important to Indiana, with secondary responsibility in teaching at the graduate and undergraduate levels. The successful candidate is expected to develop a nationally/internationally recognized research program focused on plant disease epidemiology, encompassing host, pathogen, and environmental aspects
of disease development. Qualified candidates must have a Ph.D. degree in plant pathology or closely related field. Experience in disease epidemiology, disease ecology, disease management, disease modeling and statistics, or related research areas are preferred. Post-doctoral experience is strongly preferred. Excellent communication skills are essential and candidates should be able to demonstrate good teaching skills. Interested applicants must submit an application packet that outlines their research interests, professional goals, a statement of their teaching interests/philosophy, a complete CV that includes a summary of academic/other professional experiences, and the names and contact information for four references. These materials should be sent electronically to Pam Mow (mowpe@purdue.edu). A background check will be required for employment in this position.

**Assistant Researcher in Environmental Microbiology**

Develop a strong, innovative, nationally recognized and externally funded research program using appropriate molecular and computational tools and approaches including but not limited to diagnostics, bioinformatics, microbial forensics, phylogenetics, and population genomics to contribute to the understanding of interactions between the microbial community, plants, and the environment. Work in multidisciplinary teams to address environmental microbiology as it impacts agrosecurity, food safety and security, or biological diversity. The research program will ultimately contribute to effective, sustainable management of plant health and agricultural productivity. Contribute to the instructional mission of the department by teaching graduate courses in phytobacteriology (biology, detection, and control) and other needed appropriate graduate and undergraduate courses as needed in the department. Further information: [http://workatuh.hawaii.edu/Jobs/NAdvert/21457/3372172/1/postdate/desc](http://workatuh.hawaii.edu/Jobs/NAdvert/21457/3372172/1/postdate/desc). Minimum qualifications: Ph.D. degree in plant pathology with expertise in bacteriology, bio-informatics, and population biology from a college or university of recognized standing. Ability to generate independent research reports, publications, and grant proposals. Initiative, interest in scientific work and adaptability. Familiarity with plant disease management concepts evidenced by course work or experience. Research experience with a range of bacterial genera and bacterial communities; molecular biology techniques; phytobacteriology and plant diseases, evidenced by publication in peer-reviewed journals. Inquiries: Mark Wright (markwrig@hawaii.edu; +1.808.956.6737) or Michael Melzer (melzer@hawaii.edu).

**Assistant Professor of Plant Pathology and Environmental Microbiology: Phytobiomes**

Pennsylvania State University is offering a tenure-track position at the rank of assistant professor with a 25% teaching/75% research appointment. The successful applicant is expected to develop an externally funded, innovative research program on plant-associated microbiomes ("phytobiomes"). We are looking for candidates using cutting-edge "omics" approaches to elucidate and exploit the multitrophic interactions among and between microorganisms and the plant environment, that influence the health of agricultural, forest, or other natural systems. Strength in the implementation and/or development of bioinformatics pipelines that support and integrate microbiome research is desired. Teaching responsibilities will include an advanced applied course relating to environmental microbiology and next-generation microbiome datasets in natural, agricultural, and food systems, as well as an undergraduate course in microbial evolution and/or genomics. Candidates will be evaluated on their potential for publishing high-impact work, extramural funding, teaching excellence, and collaboration in research and teaching outside the department. Ph.D. degree in plant pathology, microbiology (not limited to prokaryotes), or a related field is required, and post-doctoral experience indicating independence and productivity is preferred. Visit [http://apptrkr.com/654931](http://apptrkr.com/654931) to apply.

**Assistant Professor (Nematologist) Requisition 493117**

This is a 12-month tenure-accruing position that will be 70% research (Florida Agricultural Experiment Station) and 30% extension (Florida Cooperative Extension Service), available in the Entomology & Nematology Department, Institute of Food and Agricultural Sciences, at the University of Florida. Tenure will accrue in the Entomology & Nematology Department. This assignment may change in accordance with the needs of the unit. The incumbent will develop a nationally recognized and independent program focusing on novel approaches to nematode management that are compatible with crop production systems in north central and northwest Florida. In particular, the incumbent will conduct research on plant-pathogenic nematode diseases of agronomic (field, row, forage, energy) and horticultural (fruit and vegetable) crops cultivated in the northern Florida region. Development of a strong extramurally funded research program that leads to peer-reviewed publications is expected. He/she will work closely with other faculty working on sustainable/integrated cropping systems, phytopathology, weed management, emerging bioenergy crops, forage crops, and other field crops. Extension duties include training extension agents and delivering relevant information to commercial growers and other industry clientele. The University of Hawaii at Manoa (UHM) is an Equal Opportunity/Affirmative Action employer. Women, minorities, individuals with disabilities, veterans, and individuals with disabilities are encouraged to apply. UHM is committed to maintaining a safe, healthy, and drug-free workplace and is a tobacco-free campus. Additional information: [http://workatuh.hawaii.edu/Jobs/NAdvert/21457/3372172/1/postdate/desc](http://workatuh.hawaii.edu/Jobs/NAdvert/21457/3372172/1/postdate/desc).

**Assistant Professor of Plant Pathology and Environmental Microbiology: Microbial Ecologist**

Pennsylvania State University is offering a tenure-track faculty position at the rank of assistant professor with a 25% teaching/75% research appointment. The successful applicant is expected to develop an externally funded, high-impact research program on the ecology of microbes (bacteria, viruses, fungi, and/or other eukaryotic or prokaryotic microbes). We are looking for candidates using cutting-edge approaches to uncover the functional roles of microorganisms in natural and/or manmade environments, including agroecosystems. Research opportunities include but are not limited to understanding microbial community processes in compost substrates, microbial remediation of contaminated waters, and biological control of diseases. Strength in applying understanding of microbial community and population structure to agricultural and environmental problem solving is desired. Opportunities exist for applied research serving a variety of crop industries in the state, including vegetables, field crops, turfgrass, tree fruit, and the world’s largest concentration of commercial mushroom producers. Candidates will be evaluated on their potential for publishing high-impact work, obtaining extramural funding, teaching excellence, and collaboration in research and teaching within and outside the department. Ph.D. degree in microbial ecology, environmental microbiology (not limited to prokaryotes), or a related field is required, and post-doctoral experience indicating independence and productivity is preferred. Visit [http://apptrkr.com/654931](http://apptrkr.com/654931) to apply.

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Phytopathology News 137
A new APS website to power your career!

Launch Your Career
Planning a career in plant pathology

Keep Your Career Moving
Career advancement advice

Building a Bright Future
Developing a vision for plant pathology

CADRE Mentoring
Advice for early career & beyond

Visit apsnet.org/careers/CADRE today!

Assistant Professor of Nematology Requisition 493017

This is a 12-month tenure-accruing position with a 70% research (Florida Agricultural Experiment Station) and 30% extension (Florida Cooperative Extension Service) appointment, at the University of Florida’s (UF’s) Gulf Coast Research and Education Center (GCREC) near Tampa, FL. The appointee will develop a nationally recognized nematology program focused on the management of plant-parasitic nematodes of economic importance to the commercial horticultural and ornamental industries in Florida. The candidate is expected to have the necessary skills to identify and characterize plant- and soil- associated nematodes, and to evaluate the impact of fumigants, pesticides, plant resistance, cropping systems, and other cultural practices on the biology, ecology, and population dynamics of nematode as the basis for developing integrated management strategies. The appointee will be an active member of an interdisciplinary statewide team of research/extension personnel. The appointee will develop a strong extramurally funded research program that leads to publishing in peer-reviewed journals, as well as an extension program that assists the GCREC diagnostic clinic and that of the UF IFAS Nematode Assay Laboratory in Gainesville, provides comprehensive in-service training to extension agents, and develop printed/electronic extension materials. The candidate will participate actively in graduate education by chairing and serving on graduate committees, supervising thesis and dissertation research, and publishing research/extension materials with graduate students. Individuals wishing to apply should go online to http://explore.jobs.ufl.edu/cw/en-us/job/493017. Please refer to requisition # 493017.

Applying Science to Policy: AAAS S&T Policy Fellowships

AAAS is pleased to announce that applications are now being accepted for the 2016–2017 AAAS S&T Policy Fellowships year. Policy fellowships provide biologists the unique opportunity to apply their knowledge and skills to national/international issues in the federal realm. Fellows share an interest and commitment to public service, a desire to learn about science and technology policy, and a willingness to apply their scientific and engineering backgrounds in new arenas. Fellows serve year-long assignments in the executive, legislative, and judicial branches of the federal government in Washington, DC. Candidates who demonstrate strong scientific and technical credentials, a commitment to public service, strong communication skills, problem-solving ability, good judgment, flexibility, and leadership qualities are encouraged to apply. Stipend and benefits: $75,000–$100,000. Health insurance, travel/training, and relocation allowances. Fellowship year: September 1, 2016–August 31, 2017. Application link: https://fellowshipapp.aaas.org/applications. Questions? Call +1.202.326.6700 or e-mail fellowships@aaas.org. Qualifications: Ph.D., MD, DVM, D.Sc., etc.) in any scientific, social science, or engineering discipline or master’s degree in engineering with three years of professional engineering experience. U.S. citizenship. Online application link: https://fellowshipapp.aaas.org/applications/. Closing date of November 1, 2016, is not adjustable.

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**Call for Papers**

Be in the Next *Phytopathology* Focus Issue

**Disease Management in the Genomics Era**

**ARTICLE SUBMISSION DEADLINE**

February 1, 2016

**FOCUS ISSUE EDITORS**

Jeff Rollins, Boris Vinatzer, Bill Schneider, and Steve Klosterman

**Spotlight**

Artificial Surfaces in Phyllosphere Microbiology

Hung K. Doan and Johan H. J. Leveau

OPEN ACCESS FOR A LIMITED TIME

**Feature**

The Incessant Battle Against Fire Blight in Pears: 30 Years of Challenges and Successes in Managing the Disease in Israel

Dani Shtienberg, Shulamit Manulis-Sasson, Miriam Zilberstaine, Dov Oppenheim, and Hagai Shwartz

**Editors’ Picks**

Predicting Cereal Root Disease in Western Australia Using Soil DNA and Environmental Parameters

Grant J. Poole, Martin Harries, D. Hüberli, S. Miyan, W. J. MacLeod, et al.

Krishna Subbarao, Phytopathology, editor-in-chief

A *Botrytis cinerea* Population from a Single Strawberry Field in Germany Has a Complex Fungicide Resistance Pattern

Anja Grabke and Gerd Stammler

Mark Gleason, Plant Disease, editor-in-chief

A Recent Expansion of the RXLR Effector Gene *Avrblb2* Is Maintained in Global Populations of *Phytophthora infestans* Indicating Different Contributions to Virulence

Ricardo F. Oliva, Liliana M. Cano, Sylvain Raffaele, Joe Win, Tolga O. Bozkurt, et al.

Jane Glazebrook, MPMI, editor-in-chief

**Trending**

*Phytopathology*

- Resurgence of *Pseudoperonospora cubensis*: The Causal Agent of Cucurbit Downy Mildew
  
  Yigal Cohen, Kyle M. Van den Langenberg, Todd C. Wehner, Peter S. Ojiambo, Mary Hausbeck, et al.

- Emergence and Spread of New Races of Wheat Stem Rust Fungus: Continued Threat to Food Security and Prospects of Genetic Control
  
  Ravi P. Singh, David P. Hodson, Yue Jin, Evans S. Lagudah, Michael A. Ayliffe, et al.

- Five Reasons to Consider *Phytophthora infestans* a Reemerging Pathogen
  

*Plant Disease*

- Integrating Experience, Evidence and Expertise in the Crop Protection Decision Process
  
  OPEN ACCESS FEATURE ARTICLE
  
  Gareth Hughes and Fiona J. Burnett

- Disease Severity Estimates—Effects of Rater Accuracy and Assessment Methods for Comparing Treatments
  
  C. H. Bock, M. El Jarroudi, L. A. Kouadio, C. Mackels, K.-S. Chiang, and P. Delfosse

- First Report of Cucurbit Yellow Vine Disease Caused by *Serratia marcescens* in Georgia
  
  OPEN ACCESS
  
  K. R. Belsler and E. L. Little

*MPMI*

- Tomato *SOBIR1/EVR* Homologs Are Involved in Elicitin Perception and Plant Defense Against the Oomycete Pathogen *Phytophthora parasitica*
  
  Ke-Chun Peng, Chao-Wen Wang, Chih-Hang Wu, Chun-Tzu Huang, and Ruey-Fen Liu

- Phytosulfokine Is Involved in Positive Regulation of *Lotus japonicus* Nodulation
  
  Chao Wang, Haisiang Yu, Zhongming Zhang, Liangliang Yu, Xiaoshu Xu, et al.

- The Type III Effector *AvrBs2* in *Xanthomonas oryzae pv. oryzae*
  
  Suppresses Rice Immunity and Promotes Disease Development
  
  Shuai Li, Yanping Wang, Shanzhi Wang, Anfei Fang, Jiaying Wang, et al.

*Plant Health Progress*

- Applying *Phytophthora ramorum* Inoculum to Hosts: A New Method That Simulates Overhead Irrigation
  
  L. Rollins, M. Elliott, and G. Chastagner
## Calendar of Events

### APS-Sponsored Events

<table>
<thead>
<tr>
<th>Month</th>
<th>Event</th>
<th>Location</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 2016</td>
<td><strong>Northeastern Division Meeting.</strong></td>
<td>Philadelphia, PA</td>
<td><a href="http://www.apsnet.org/members/divisions/ne">www.apsnet.org/members/divisions/ne</a></td>
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<tr>
<td>February 2016</td>
<td><strong>Southern Division Meeting.</strong></td>
<td>Balm, FL</td>
<td><a href="http://www.apsnet.org/members/divisions/south">www.apsnet.org/members/divisions/south</a></td>
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<td>March 2016</td>
<td><strong>Potomac Division Meeting.</strong></td>
<td>Richmond, VA</td>
<td><a href="http://www.apsnet.org/members/divisions/pot">www.apsnet.org/members/divisions/pot</a></td>
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<tr>
<td>June 2016</td>
<td><strong>North Central Division Meeting.</strong></td>
<td>Chaska, MN</td>
<td><a href="http://www.apsnet.org/members/divisions/nc">www.apsnet.org/members/divisions/nc</a></td>
</tr>
<tr>
<td></td>
<td><strong>Pacific Division Meeting.</strong></td>
<td>LaConner, WA</td>
<td><a href="http://www.apsnet.org/members/divisions/pac">www.apsnet.org/members/divisions/pac</a></td>
</tr>
<tr>
<td>July 2016</td>
<td><strong>APS Annual Meeting.</strong></td>
<td>Tampa, FL</td>
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</tbody>
</table>

### Other Upcoming Events

#### November 2015

- **29-Dec** 36th New Phytologist Symposium—Cell Biology at the Plant–Microbe Interface. Munich, Germany. [www.newphytologist.org/symposiums/view/38](http://www.newphytologist.org/symposiums/view/38)

#### December 2015

- **5-11** Plant-Parasitic Nematode Identification Workshop. Clemson, SC. [www.clemson.edu/calls/nematology/short_course.html](http://www.clemson.edu/calls/nematology/short_course.html)
- **6-8** 2015 National Fusarium Head Blight Forum. St. Louis, MO. [www.scabusa.org/forum15](http://www.scabusa.org/forum15)
- **8-10** Soilborne Oomycete Conference. Hawks Cay, Florida Keys. [http://oomyceteconference.org](http://oomyceteconference.org)

#### March 2016

- **30-Apr** Genetics of Maize-Microbe Interactions Workshop. College Station, TX. [https://gmdw.tamu.edu](http://https://gmdw.tamu.edu)

#### June 2016


#### July 2016


#### September 2016