2015 APS ANNUAL MEETING
Crossroads in Science in Pasadena

The 2015 APS Annual Meeting is the place to connect with colleagues from around the world, share ideas and research, and explore new science. More than 1,400 plant disease specialists from nearly 35 countries are expected to convene in Pasadena, CA, to share the latest information on plant pathology during symposia and discussion sessions, research presentations, workshops, and special events.

This year’s meeting, with the theme Crossroads in Science, is focused on a new frontier in science aimed at increasing agricultural productivity and reducing postharvest losses through interdisciplinary collaboration to meet the future needs of a growing world population in a sustainable manner.

Plant scientists in government, academia, industry, and private practice are encouraged to attend and will have the opportunity to participate in cutting-edge scientific and technical sessions, present research results, and learn about innovative new products and services.

“The meeting also has a variety of opportunities for students and young professionals to network and become more involved with this diverse global community of scientists,” said Amy Charkowski, director of the APS Annual Meeting Board.

The scientific program will include more than 300 oral presentations and more than 750 poster presentations featuring the latest scientific research in plant pathology.

Nestled at the base of the San Gabriel Mountains in southern California, Pasadena provides the perfect backdrop for the APS Annual Meeting with many opportunities for outdoor field trips and the new “Take a Walk” sessions, held at Huntington Gardens.

The Pasadena Convention Center is conveniently located within walking distance to four major hotels as well as a bustling 22-block historical area filled with 200 shops, boutiques, restaurants, and clubs. Attendees can enjoy renowned museums, golf, live theater, and of course, pleasant weather.

Don’t miss this exciting opportunity to connect with the leading scientists in plant pathology!

The San Rafael Avenue Bridge, spanning the Arroyo Seco, in Pasadena, CA.

Rose Garden at the Huntington Gardens and the Rose Bowl Stadium.

PHOTOS COURTESY OF CITY OF PASADENA

Have You Registered for Phytobiomes 2015?

Discounted advanced registration for the Phytobiomes 2015 workshop, to be held June 30–July 2 in Washington, DC, ends soon! Register by June 15 to save $50 off your registration fee! Registration includes three continental breakfasts, two lunches, one reception, and breaks. Visit www.phytobiomes.org for more information on this exciting opportunity.
Editor’s Corner

Riding for the Brand

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

In the old west, a brand was a distinctive mark burned into the hides of cattle using a red-hot “branding iron.” Since cattle, especially in Texas, roamed free on the open range, it was important for ranchers to be able to identify their cattle from those of other ranchers when collecting them for marketing. Branding irons were designed to identify the ranches that had names like the “Double T” (TT) or the Lazy S (the S lying sideways).

One of my favorite authors, Louis L’Amour, wrote frontier stories that took place in the American West in the mid- to late-1800s. One of my favorite stories is entitled, Riding for the Brand. Riding for the brand is an idiom that more or less translates to staying loyal to what matters.

Today, branding has taken on a somewhat different meaning. A brand is the idea or image of a specific organization, product, or service that consumers connect with, by identifying the name, logo, slogan, or design of the company who owns the idea or image. Branding is when that idea or image is marketed so that it is recognizable by more and more people and identified with a certain service or product when there are many other companies offering the same service or product. As examples, in the package delivery service business, United Parcel Service has branded itself as “UPS” with the branded statement of “Let Brown Do It.” McDonald’s Corporation has the “Golden Arches” and the name “Google” is written in a specific font and color scheme.

So, how many of you realize that APS has a brand?

Back in 2000, with the help of APS Headquarters staff, an ad hoc branding committee, under the direction of Erik Stromberg, was formed. As written in the 93rd Annual Report, “…the committee first developed an image statement for APS as a guide and then sought a brand that would convey that image. The new logo reflects the guide’s criteria of directness, representative, reflective (innovative, professional, forward thinking, global, collaborative, dedicated, and nurturing), and reproducibility.” The predominance of the leaves is used to communicate the key message that the overall goal of a plant pathologist’s work is to ensure the health of plants. You can also see the brand incorporated into the masthead of Phytopathology News.

So, let’s get back to the idea of “riding for the brand.” Are we as members riding for the brand, that is, are we staying loyal to what matters? Are we publishing in APS journals when appropriate? Are we buying books and products from APS PRESS and publicizing these materials to nonmembers? Are we supporting the annual meeting with our attendance or at least the attendance of our students? Do we contribute to the APS Foundation, part of whose mission is to ensure a bright future for plant pathology and those who practice it? If APS is to continue to be “the globally recognized resource for plant health information and knowledge dissemination” as stated in our Strategic Plan, then we as members will need to do our part by “riding for the brand.”
Engagement Is a Strategic Issue for APS and for You

David Gadoury, APS Internal Communications Officer, dmg4@cornell.edu

**Strategic Plan of The American Phytopathological Society**

**GOALS**

1. The highest quality scientific standards.
2. A strong, proactive, and united professional organization.
3. Be the globally recognized resource for plant health information and knowledge dissemination.
4. Increased opportunities for professional growth and development.
5. Prioritization and action on issues most relevant to the future of plant pathology.

**Challenges Facing Professional Societies**

Scientific societies can falter when they don’t adapt to the changing professional landscape. We are especially fortunate in APS to work with a large and committed volunteer force. This is not the case for all scientific societies. It is one of the greatest strengths of APS. We also work with a highly skilled headquarters staff that manages most of the operational aspects of running APS and provides significant input on strategic matters. The first day in Tampa was devoted to the study of what new directions might be desirable for APS as a professional society. I’ll freely admit that this can be a somewhat painful process for some members of council, in particular the most “experienced” among us (like me). However, as observed by General Eric Shinseki: “If you dislike change, you’re going to dislike irrelevance even more.” The key here is to be clear-headed about those things of greatest importance to the membership of APS and still see the opportunities for the things that must become important in the near future. Our strategic plan is especially important to this process. The goals should clearly state what we want to be and where we want to be as a profession. While they are not timeless, strategic goals are intended to be both timely and longer term. Revision of the strategic goals is not something to be taken lightly. Review of the changing landscape, however, and how that affects our ability to reach our strategic goals is an ongoing process. And that, in a nutshell, is what we were up to in Tampa.

First, council reviewed data from a survey conducted by the Council for Engineering and Scientific Societies, where APS was one of 50 participating organizations. The survey data were used as metrics to rank the performance of the participant societies in key areas, including issues such as balancing security and risk, sense of mission, and top strategic opportunities. Without getting too bogged down in self-examination, we learned that APS performs at a high level across many important categories. We were also pleasantly surprised to learn that several current initiatives of the society, and many of the agenda items for the remainder of the Tampa meeting, were quite relevant to survey metrics that typified a healthy and growing scientific association.

**Strategic Exchange Forum 2015 and More**

The Strategic Exchange Forum (SEF) brings together leaders of key boards, offices, and committees of APS at our annual meeting to focus upon a single topic of importance to the future of the society. We’re into our third iteration of the forum. This year, the topic is student and early career engagement. SEF will bring together those leading a number of initiatives within APS: Borlaug’s Army (www.apsnet.org/members/BorlaugsArmy), a new professional development website, Career Advancement and Development Resources and Education (CADRE), as well as key boards and offices, such as the Office of Public Relations and Outreach (OPRO), the APS Education Center, and the Leadership Forum. Engagement, particularly with respect to students and early career professionals, is critical to the future of our profession. Council has therefore made this a top priority activity for immediate action. SEF discussions will provide an opportunity to assemble a diverse group of leaders with a common interest in engagement. There is probably little need to persuade SEF participants of the importance of being engaged in a professional society. They get it. They are not our target audience. This year’s SEF recognizes the strategic value of engaging the newest members of APS, as well as the next generation of APS members.

In addition to their inclusion within SEF, the various initiatives of APS are individually relevant to engagement. If you are hosting any undergraduate interns in your research or outreach programs, you need to connect them to Borlaug’s Army. APS is once again offering a free one-year membership to any undergraduate student, anywhere in the world, who is engaged in a research experience for undergraduates (REU) program, internship, or other work experience in plant protection or plant pathology. Other engagement initiatives spanning the continuum from elementary education to graduate education are the topic of a special session entitled “Engagement in Plant Pathology: You Can’t Start Too Early” to be presented at the annual meeting in Pasadena.
2015 APS Annual Meeting Highlights

The APS Annual Meeting will be filled with new ways to explore and advance the science of plant health. The program is carefully balanced to deliver in-depth science and unmatched opportunities for discussion and collaboration. The insightful presentations, thoughtful discussion, and networking opportunities offered are unmatched. Here is a sneak peek at some of the events and scientific programs planned for the annual meeting. Registration and comprehensive meeting details can be found online at www.apsnet.org/meet.

Networking Events

Sunday, August 2
APS Opening General Session and Awards & Honors Ceremony
10:30 a.m. – 12:00 p.m.
Join colleagues as we recognize members with awards and honors acknowledging their hard work and dedication to plant pathology and learn about important society goals, accomplishments, and initiatives directly from APS leaders.

Welcome Reception—Exhibition and Posters
4:00 – 6:00 p.m.
This is the first chance to visit exhibitors and learn about new science from poster presentations. Ticket is included with full registration. Guest tickets are available for purchase on the registration form.

Alumni Gatherings
6:00 – 7:00 p.m., (new time)
Connect with fellow alumni! Check the program book for a listing of participating universities.

Monday, August 3
Industry & Extension Networking Event
6:30 – 9:30 p.m.
Create lasting business connections while exploring one of Pasadena’s most unique places, Castle Green. Built in 1898, this imposing seven-story Moorish Colonial- and Spanish-style building is located next to Central Park in Old Pasadena. Discuss your favorite research topic over dinner, while strolling through the grounds or having a drink on the veranda. Just a few blocks from the convention center, this is a great opportunity to expand your professional network with industry representatives from a variety of companies and extension professionals from around the country. Preregistration is required; space is limited.

Wednesday, August 5
Final Night Celebration—California Dreamin’
6:00 – 9:00 p.m.
APS takes to the streets on Wednesday during this outdoor celebration that goes into the night and under the stars. Enjoy food, beverages, music, and fun! It’s a great way to wrap up the meeting and make one final connection with your colleagues and friends before heading home. Ticket is included with full registration. Guest tickets are available for purchase on the registration form.

New Ways to Explore Science

Idea Cafés (Topics/times to be announced)
Looking for solutions to an existing problem, a conversation on a specific issue or concern, or innovative ideas in your area of research or outreach? Idea Cafés gather great minds in

Thought-Provoking Plenary Sessions

Crossroads in Science
Monday, August 3 • 1:00 – 3:00 p.m.
Michael Rogers, best-selling author, technology pioneer and futurist, New York City, NY

The 21st century has brought enormous opportunities to the life sciences: big data, cognitive computing, and increasingly inexpensive tools for genomics. But the challenges have also grown, from the needs and impacts of a still-rising world population to the decrease in public funding for research and development. Add to that a generalized public mistrust of any work that involves “genetic engineering,” and you have a complex environment indeed.

How do older researchers adapt to disciplines that seem increasingly driven by algorithms? And what is the responsibility of scientists to speak out on global issues that may well threaten life as we know it? Find answers to these questions and more at this thought-provoking and insightful session.

Rogers most recently served as futurist-in-residence for The New York Times. He has worked with companies ranging from FedEx, Boeing, and Genentech to Microsoft, Pfizer, and Siemens, focusing on how companies can think about the future in useful ways. He speaks to audiences worldwide and is a regular guest on radio and television.

When Generations Connect: Communicating with Four Generations of Employees

Tuesday, August 4 • 1:00 – 2:00 p.m.
Scott Zimmer, Generation Expert, BridgeWorks (Bridging the Generational Divide), Minneapolis, MN

Four distinct generations are working together shoulder to shoulder, each with a unique set of attitudes, values, and work styles. It used to be that older workers were bosses and younger ones took orders. Now, roles are all over the map and rules are being rewritten. Businesses and institutions are feeling the pain of generations and they struggle to manage productivity and morale while maintaining high standards and morale. This program will give you the tools to convert this form of diversity from an obstacle to an opportunity.

Zimmer (Generation Xer) is a writer, market researcher, and generational expert with BridgeWorks, a Minneapolis-based company that has been dedicated to bridging the generational divide in the workplace and marketplace for more than 16 years. A child of the 80s and 90s, Zimmer has insider knowledge into what makes his generations tick. Sandwiched between the idealistic Boomers and the innovative Millennials, his Xer lens allows him to hone in on the key challenges facing each generation.
plant pathology in an informal setting (one round table of 10 assigned to each topic) to converse on an area of interest to you! Watch for more details.

**PhytoViews (Topics/times to be announced)**

Engage in facilitated conversations that explore questions/issues of regulatory, policy, research, extension, and education in plant pathology as we explore all points of view.

**Take a Walk Sessions**

Take a break from the traditional meeting room and experience these scientific sessions under a blue California sky. Held Tuesday and Wednesday mornings, Take a Walk sessions will take place at the beautiful Pasadena Huntington Gardens. Pre-registration is required, transportation is provided. Attendance is limited.

**Poster Huddles (Topics to be announced)**

Monday and Tuesday

3:30 – 4:00 p.m. Poster Huddle Time

4:00 – 6:00 p.m. Poster Time with Authors

Poster Huddles focus on special areas of interest among the submitted posters, offering more in-depth discussion of research and findings presented by poster authors. Selection of topic areas will be made following poster submissions.

**Hotel Reservations**

Book your hotel by July 3 to take advantage of discounted hotel rates only available to APS meeting attendees. Meeting rates are available three days prior and three days after the meeting, based on availability at the hotel. Reservations must be made through the Pasadena Housing Bureau.

Housing Bureau: Pasadena CVB
Internet: apsnet.org/meet
+1.800.307.7977
International: +1.800.307.7977
Questions: jmartinez@visitpasadena.com

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**2015 APS Meeting Exhibitors**

Representatives from leading industry suppliers will answer questions and share information about their products and services. Exhibitors are listed as of April 30, 2015. Visit www.apsnet.org/meet for updates. APS Sustaining Associates are signified by *.

- AC Diagnostics Inc. .......................................................... http://www.acdiainc.com
- Agdia Inc. ................................................................. http://www.agdia.com
- American Peat Technology (APT) ......................................... http://www.americanpeattech.com
- BioChambers Incorporated .................................................. http://www.biochambers.com
- BIOREBA AG/Eurofins STA Labs ........................................... http://www.eurofinsus.com/food-testing/testing-services/seed-quality-testing
- The British Society for Plant Pathology .................................... http://www.bspbo.org.uk
- Conviron ................................................................. http://www.conviron.com
- Dino-Lite Scopes (BigC) ....................................................... http://www.dinolite.us
- Dow AgroSciences LLC ...................................................... http://www.dowagro.com
- DuPont Crop Protection ...................................................... http://www.dupont.com
- Gylling Data Management ................................................... http://www.gdmdata.com
- MO BIO Laboratories Inc ..................................................... http://www.mobio.com
- Novogene Bioinformatics Technology Co., Ltd. ......................... http://www.novogene.com
- Optigene ................................................................. http://www.optigene.co.uk
- PathSensors, Inc. .......................................................... http://www.pathsensors.com
- Percival Scientific Inc ......................................................... http://www.percival-scientific.com
- Pro-Lab Diagnostics .......................................................... http://www.pro-lab-direct.com
- PropTera LLC .............................................................. http://www.proptera.com
- Spectrum Technologies ....................................................... http://www.spectrometers.com
- Springer ................................................................. http://www.springer.com
- Sunburst Plant Disease Clinic, Inc. .......................................... http://www.sunburstpdcinc.com
- Taiwan HiPoint Corporation .................................................. http://www.twhipoint.com
- UNL Doctor of Plant Health ................................................ http://www.dph.unl.edu

**There’s still time to sign up to exhibit, sponsor, or advertise at the 2015 APS Annual Meeting. Meet with hundreds of the industry’s top scientists. Visit www.apsnet.org/meet for details.**

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**Start Thinking About 2016 Annual Meeting Special Sessions**

**Tim Murray, 2016 Annual Meeting Program Chair, t_murray@wsu.edu**

The 2015 APS Annual Meeting is just around the corner and most of you are probably thinking about your posters, presentations, the sessions you want to attend, and the chance to see old friends and make new ones.

**2016 APS Annual Meeting Theme: Science to Practice**

The 2016 meeting is likely far from most people’s mind, but now is the time to start planning if your working group or committee is considering a special session at the meeting. The 2016 theme gives us a starting point when thinking about session content. All special sessions begin with proposals submitted online to the Annual Meeting Board (AMB), followed by a brief presentation to AMB on the last day of the 2015 Annual Meeting. AMB then evaluates each proposal and makes the difficult decision of which sessions move forward.

I encourage you to be prepared and develop as much of the proposal as possible before the meeting. In addition to a title and brief description, you’ll need to decide on the type of session you envision; is it going to be a symposium, workshop, or field trip?

Preparation is the key: just as with research, good ideas and proposals are much more likely to be advanced than incomplete proposals.

**Choose to Submit a 3- or 1.25-Hour Session**

In the past, all special sessions were three hours in length, but starting in 2015, we’ve added the option of shorter special sessions (1.25 hours) to allow for more topics to be covered during the meeting and to allow for topics that do not have a large variety of speakers.
International Update continued from page 75

International Engagement

By the time you read this, you will likely have seen one of the outcomes of council’s discussion of this topic: to initiate a new membership option for current and prospective APS members employed or residing in economies with low or lower-middle incomes, as defined by the World Bank, to, instead, qualify for a discounted regular membership with APS, therefore requiring no separate group membership category. This will require a constitutional change that must be approved by a majority vote of our membership. A unanimous vote of council resulted in bringing this before the membership for a vote. It’s our hope that the membership will approve of the measure. APS is already an international society in the sense that nearly one-third of our membership resides outside the United States. However, for residents of many countries, full membership dues are prohibitive. If you’ve paid attention to the annual report of our treasurer, you already know that we don’t run our society on membership dues. We run on volunteers. Every new member is a potential author in an APS journal, a reviewer of manuscripts, a fountain of ideas, an involved advocate for our profession, a committee member, and perhaps someday the president of our society. We are financially sound as an organization, and well positioned to support our members in promoting attendance at this event. This will provide a great opportunity to engage an even larger number of international scientists and advisory personnel, to get them involved in APS, and to show them what APS can do for them and their colleagues, no matter where they are located. Look forward to more information on this to be presented at the annual meeting in Pasadena.

Engagement Through Knowledge Dissemination

In keeping with Goal #3 of our strategic plan, APS continues to improve the way we presently publish and distribute information and to adopt entirely new platforms. Elsewhere in Phytopathology News, Publications Board Chair Nik Grünwald has described numerous steps taken to streamline manuscript handling at APS and otherwise improve the experience for authors. Work continues in developing the means to meet the competition we face from online open-access venues such as PeerJ and PLoS. A sense of ownership of APS journals by our authors, and to our professional organization, and a commitment to publish there is a key aspect of our journal strategy. The foregoing is inseparably linked to our efforts directed at students and early career professionals, including those responsible for mentoring them.
Altmetrics—Here’s Something to Tweet About

The launch of full-text articles in APS journals online allows for a range of exciting new features and improvements. Altmetrics is the first such benefit to be explored in our new series of novel features in APS journals.

For decades, the “traditional” means of measuring the impact of published research among journals and their authors has been the Impact Factor. Impact Factor ratings were originally developed to help librarians make comparisons in a quantitative way among journals in their collections. It is a formula that uses the average number of times recent articles in a specific journal were cited in the Journal Citation Reports (JCR) cover year. For JCR impact factors, recent articles are those published in the two years before the JCR cover year. But Impact Factor is really a measurement of a journal as a whole, not of each specific article or author who publishes there.

In the Internet Age, we can now easily view impact at the “article” level. Until recently, you could only see the articles citing your paper in APS journals. But now, nontraditional communications channels like blogs and social media sites have become increasingly important tools for communicating scholarly information. The impact factor does not take such “article-level” metrics into account.

Enter altmetrics, or alternative metrics, which measures an article’s impact through nontraditional channels. Altmetrics specifically compares:

- How widely each article is posted across Twitter, Facebook, blogs, and other social media accounts
- The aggregate number of individuals following each social media account where an article is referenced
- How much social media activity one article gets versus all other articles published—in the same issue and all other articles
- The number of PDF downloads and page views

Based on these factors, an Altmetrics Score is generated and updated. Through this new feature in APS Journals Online, authors and readers can see where in the world their papers are getting the most attention, from Albania to Zambia and anywhere in between.

Are you social about our science? We hope you will be. APS members and readers are encouraged to share compelling articles with colleagues. The process is simple. In the upper-right corner of each abstract and full-text article is a share button. Simply click or tap on the button and then choose the social media and share the article. It’s that easy!
New Plant Health Webcasts from PMN

In support of its nonprofit publishing mission to enhance the health, management, and production of crops through quality, science-based information, the Plant Management Network (PMN) recently produced a series of webcasts on plant health for the upcoming growing season. 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 of which are located at www.plantmanagementnetwork.org.

Focus on Corn
• Stink Bug Management: It Pays to Scout Corn Seedlings, Ric Bessin, University of Kentucky

Focus on Cotton
• Role of Seedling Diseases and the Efficacy of Fungicide Seed Treatments in Stand Establishment of Cotton, Craig S. Rothrock, University of Arkansas

Focus on Potato
• Genetics of Late Blight—Real World Implications, Bill Fry, Cornell University
• Sanitation for Bacterial Ring Rot, Gary Secor, North Dakota State University

Focus on Soybean
• Soybean Cyst Nematode Management, George W. Bird, Michigan State University
• Evaluation of Seed Applied Nematicide on Soybeans, Tristan Mueller, Iowa Soybean Association
• Soybean Death Syndrome Management Update, Daren Mueller, Iowa State University

Focus on Tomato
• Weed Control Considerations for Organic Tomato Production, Doug Doohan, The Ohio State University
• Tomato Diseases Favored by High Tunnel Greenhouses, Judson Reid, Cornell 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 at pbogdan@scisoc.org or +1.651.994.3859.

Training and Mentoring in the USDA Agricultural Research Service

Are you interested in solving major national or global problems in agriculture? If so, think about spending time in a USDA Agricultural Research Service (ARS) laboratory to learn first hand how to do it and discover career opportunities with ARS. The mission of ARS emphasizes research to solve important problems in agriculture, and we recognize the need to train and mentor the next generation of our science workforce.

We count on and provide opportunities for students, post-docs, and visiting scientists. During the past five years, ARS plant pathologists in the Plant Disease National Program alone have hosted more than 260 visiting scientists, 162 post-doctoral research associates, 214 graduate students, and 667 undergraduates. Some of these scientists are colocated on university campuses and others are on stand-alone federal facilities close to the production areas. If you are interested, please visit www.usajobs.gov or contact an ARS scientist to see what opportunities might be available. Our future depends on you!

Meet Some of the Young Faces of ARS

Martha Malapi-Wight
Post-Doctoral Research Plant Pathologist, USDA ARS, Beltsville, MD

Upon graduating from Texas A&M University in 2013 with a Ph.D. degree in plant pathology, Malapi-Wight started a post-doctoral position in the Systematic Mycology and Microbiology Laboratory at the USDA Beltsville Agricultural Research Station. She found out about this position through the USA-jobs weekly e-mail alert and after reading about the opening, she quickly e-mailed Jo Anne Crouch to inquire about the position. At ARS, she works on characterizing the emergent pathogen Calonectria pseudonaviculata, responsible for the boxwood blight disease. As an ARS post-doc, she has used the latest technologies to sequence and analyze several Calonectria genomes.

Her advice for graduate students interested in working for ARS? “Try to diversify your skills that would open up more opportunities after graduation. Attend professional meetings as much as possible and network. At meetings, you can talk to people with common interests who might guide you on how to apply for jobs after graduation. My last piece of advice, don’t be afraid to send e-mails to people that you would like to work with or who do research that interests you. You never know if that scientist might have a position opening up in the near future.”

Stephan Tomas Miller
Biological Science Aid, USDA ARS, Beltsville, MD

Miller is an undergraduate student in the Agricultural Science and Technology program at the University of Maryland (UMD). He joined ARS in 2014 after finding out about the position through his department at UMD. Working with the U.S. National Fungus Collection, he has been able to learn from thousands of fungal specimens (some of them dating back to 1778) as he enters them in the national database (http://nt.ars-grin.gov/fungaldatabases).

Miller said that working at ARS has sparked his interest in plant pathology. “After being exposed to so many different types of fungi, I have come to really enjoy working with fungal specimens and learning about the different genera as I accession them into the database. My experience here with the ARS has helped me figure out what it is I would like to study in the future, something that I was quite unsure of prior to my enrollment in this position.” Miller just finished his degree and is currently looking for a graduate program focused on fungal diseases of plants.
Policy Peak Your Interest? Apply for a Public Policy Early Career Internship

For several years, the APS Public Policy Board (PPB) has helped develop future leaders in public policy through its successful public policy internship program. Since its inception in 2007, more than 10 APS early career members have been selected to participate in PPB activities and learn more about how public policy impacts plant pathology. If you have an interest in public policy, consider submitting your application. The PPB early career intern will participate in PPB activities during 2015–2017. The internship is open to APS early career members (current graduate students or post-doctoral associates and junior professionals) and will provide an opportunity to gain hands-on experience in public policy at the national level that relates generally to agricultural science and specifically to matters of interest to APS.

By working with PPB, the intern will learn how scientific societies, non-governmental organizations, executive branch agencies (e.g., USDA, NSF, EPA, etc.), and the legislative branch interact in crafting public policy. In the first year of the internship, the intern will be expected to participate in monthly PPB calls and in the preparation of newsletter items and policy white papers. The intern should be able to attend the 2017 spring governmental outreach meeting of PPB in Washington, DC (usually mid-March; travel expenses covered by PPB).

At the end of the internship, the intern will prepare a written and/or oral report on the experience for delivery to PPB and APS membership. Other activities may include, but are not limited to, the following: attending PPB policy agenda-setting meetings and conference calls and organized workshops, where relevant, and assisting PPB with development, tracking, and analysis of relevant policy issues and with planning Capitol Hill and agency briefings.

All application materials must be received by June 26, 2015, and should be sent to Jan Leach, PPB chair, at jan.leach@colostate.edu. More detailed information on this opportunity, including how to apply, is available at www.apsnet.org/members/outreach/ppb/Pages/PublicPolicyEarlyCareerInternship.aspx.

Leadership Institute

EI and IP—Core Tools for Science Leaders

The APS Leadership Institute is pleased to present its new format for this year’s training program to be held on Saturday, August 1, from 8:30 a.m. to 4:30 p.m., prior to the annual meeting in Pasadena. Participants will gain the benefit of a two-part interactive workshop with the morning focused on Emotional Intelligence (EI), a break for lunch with a networking opportunity, and then an afternoon concentrating on Influence and Persuasion (IP). This year’s workshop features expert facilitators in these core leadership areas from the Center for Nonprofit Management.

Part 1: Emotional Intelligence

Our emotions are not a touchy-feely abstraction—they are hardwired data that is integral to brain function and vital to effective decision-making. Numerous studies have proven that the ability to understand and manage emotions—a skill known as emotional intelligence (EI)—is a much better predictor of career success than IQ, education, or expertise. That’s why organizations as varied as American Express, Google, and the U.S. Army rely on EI programs. Those programs work because emotional intelligence is not innate. EI is a skill that can be measured and taught—and it’s being taught to tomorrow’s leaders at Harvard, Wharton, and Yale (among many others). Now you can explore how strong EI skills can give you a performance edge. In this lively, interactive seminar you’ll learn how your brain works and the role that emotions play in your decision-making, how EI is defined and measured, and how to recognize and understand the core EI skills.

For more than 10 years, facilitator Allen Halcrow has worked as a leadership coach and trainer. He is certified in using the two leading EI assessment tools and has coached EI skills for hundreds of clients.

Part 2: Influence and Persuasion (IP)

It’s one thing to develop a vision, it’s yet another to get others to buy into your plan. Influencing skills and the art of persuasion are key facets of turning ideas into reality, but these skills are not necessarily intuitive. Research suggests that there are fundamental elements that enable us to be more successful persuaders, skills and traits that can be taught and learned. The afternoon session of the workshop will identify critical traits of successful persuaders, such as emotional intelligence and self-motivation. In addition, students will learn valuable influencing skills such as empathy, active listening, and effective communication. Facilitator Denise Wolfe supports clients in identifying the new demands, applying critical thinking, developing creative strategies, and leveraging their talent. Wolfe has been a highly sought after organization consultant for over 20 years, serving multiple Fortune 500 companies and government agencies.

The workshop is substantially supported by the APS Council as a priority for APS leadership development and is also provided in part by support from Monsanto. In addition, attendee fees of $75/attendee help cover individual assessment, workshop materials, continental breakfast, coffee breaks, and lunch. Space is limited to 50 participants, and requires assessment completion prior to the event, so make sure to register early for this valuable leadership opportunity.
Congratulations to the 2015 APS Foundation Awardees

The following 75 individuals received awards from the APS Foundation in 2015, totaling $45,800 in awards. Awardees will be recognized during the opening session of the 2015 APS Annual Meeting in Pasadena.

Special thanks to everyone who donated to the APS Foundation! Your continued support makes these opportunities possible. Be sure to visit the Foundation’s booth at the annual meeting to learn more about funding opportunities and to help support future leaders in plant pathology!

Books for the World Award
Muhammad Ibrahim Khakshali and Faezem Uddin Rajer, Sindh Agriculture University
Tsitsi Nyamupingidza, Chinhoyi University of Technology
Olanrewaju Folusho Olotuah, Adekunle Ajasin University

Plant Pathology and Health Travel Award
Rebecca Barocco, University of Florida
French-Monar Latin American Award
Paola Alejandra Picos-Muñoz, Centro de Investigación en Alimentación y Desarrollo
Lucy Hastings de Gutiérrez Award for Excellence in Teaching
Michael G. Milgroom, Cornell University
Frank L. Howard Undergraduate Fellowship Award
Jared Mohr, Cornell University

International Travel Award
Abdul Rehman, University of Agriculture Faisalabad
JANE International Research Award
Erica M. Goss, University of Florida
JANE International Service Award
Rebecca J. Nelson, Cornell University
Noel T. Keen Award for Research Excellence in Molecular Plant Pathology
Thomas J. Baum, Iowa State University

Don and Judy Mathre Education Endowment Award
Members from the North Carolina State University Plant Pathology Outreach Team
Alyssa Koehler, Emma Lookabaugh, Kestrel L. McCorkle, Lucky Mehra, Roslyn Noar, Megan L. Sexton, William C. Sharpee, Anna Thomas, Emma C. Wallace

Don and Judy Mathre Student Educational Award
Manisha Rath, USDA and University of Georgia
15th I. E. Melhus Graduate Student Symposium
Kiersten A. Bekoske, Cornell University
Robin Choudhury, University of California, Davis
Zacharias R. Hansen, Cornell University
André Aguilar Schwanck, Institut National de la Recherche Agronomique
Stephen Wyka, University of New Hampshire

Plant Pathology Experiential Award—Department
Members of the PPCP Graduate Student Association, Louisiana State University

Plant Pathology Experiential Award—Individual
Jade Florence, Oregon State University

Schroth Faces of the Future Early Career Professionals Symposium
J. Alfonso Cabrera, Bayer CropScience
Shiyan Chen, Cornell University
Travis R. Fiske, University of Arkansas
Paulo Vieira, USDA
Raymond J. Tarleton Student Fellowship
Anna Thomas, North Carolina State University

Student Travel Awards
José and Silvia Amador Student Travel Award
Leilani G. Sumabat, University of Georgia
Elise J. and Robert Aycock Student Travel Award
Javier Tabima, Oregon State University
Kenneth F. Baker and R. James Cook Student Travel Award
Alyssa Koehler, North Carolina State University
John M. Barnes Student Travel Award & William Malcolm Brown, Jr. Student Travel Award
Ana Bossa-Castro, Colorado State University
Myron K. Brakke Student Travel Award
Yu Zhang, University of Missouri-Columbia
J. Artie and Arra Browning Student Travel Award
Anna L. Testen, The Ohio State University
C. Lee Campbell Student Travel Award
Bethany S. P. Grabow, Kansas State University
Caribbean Division Student Travel Award
Freddy Arturo Magdama, Pennsylvania State University
Gustaf A. and Ineke C. M. de Zoeten Student Travel Award
Nicole Mihelich, University of Wisconsin-Madison
Dow AgroSciences Student Travel Award & Landis International Student Travel Award
Paul W. Kachapulula, University of Arizona
H. J. Dublin Student Travel Award In Honor of the Peace Corps
Sanjay Pokhrel, Louisiana State University
Eddie Echandi Student Travel Award
Tuan Minh Tran, University of Wisconsin
Zahir Eyal Student Travel Award
Lucky Mehra, North Carolina State University

Forest Pathology Student Travel Award
Demetra Skalsas, University of Maryland
John F. Fullerton Student Travel Award
Sarabottom Piya, University of Tennessee
Robert W. Fulton Student Travel Award
Washington L. Da Silva, Cornell University
Joseph P. Fulton Student Travel Award & Dennis Hall Student Travel Award
Michael Kovens, Missouri State University
Richard Gabriel Student Travel Award
Jason D. Zurn, North Dakota State University
Efrat Gamliel-Atinsky Student Travel Award
Jeff Delong, University of Georgia

Raymond G. Grogan Student Travel Award
Bhanu Priya Donda, Washington State University
Stephen A. Johnston Student Travel Award
Adrienne M. Gorny, Cornell University, NYSAES
Arthur Kelman Student Travel Award
Matthew Tancos, Cornell University
Kyung Soo Kim Student Travel Award & Evanthia D. and D. G. Kontaxis Student Travel Award
Mariko Matsuda Alexander, Cornell University
Tsun Korosuke Student Travel Award
Maxwell Fishman, Cornell University
Joseph Kuc Student Travel Award
Roshan Sharma Poudel, North Dakota State University

Don E. Mathre Student Travel Award
Kelley R. Paugh, University of California, Davis

Harold “Sande” McNabb, Jr. Student Travel Award
Augustine Beeman, Iowa State University
William Moller Student Travel Award
Lindsey D. Thiessen, Oregon State University

Donald E. Munnecke Student Travel Award
Brian M. Ingel, University of California, Riverside

John S. Niederhauser Student Travel Award
Shunping Ding, University of Wisconsin-Madison

Albert Paulus Student Travel Award
Nan-Yi Wang, University of Florida

Roger C. Pearson Student Travel Award
Sarah J. Bardsley, Pennsylvania State University
Malcolm and Catherine Quigley Student Travel Award
Deusa D. S. Abreu, University of Cambridge
Milt and Nancy Schroth Student Travel Award
Stacey E. Haack, University of California, Riverside

Luis Sequeira Student Travel Award
Alejandra I. Huerta, University of Wisconsin-Madison

Malcolm C. Shurtleff Student Travel Award
Shan Gao, University of Georgia

George Herman Starr Student Travel Award & Turfgrass Pathology Student Travel Award
Andrew Scruggs, North Carolina State University

Janell M. Stevens Johnh Student Travel Award
Duncan Kroese, Oregon State University

H. David Thurston Student Travel Award
Alejandro Rojas, Michigan State University

Virology Student Travel Award
Jessica Rupp, Kansas State University

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Student Awards & Degrees

Danilo Isaac Vera Coello recently completed the requirements for a Ph.D. degree from the Department of Plant Pathology, Washington State University (WSU). His program committee included Tim Murray (advisor), Dennis Johnson, Gary Grove, and Weidong Chen. His dissertation was entitled “Role of the ascigerous stage in the epidemiology of eyespot in wheat.” Eyespot is a chronic disease of winter wheat, caused by Oculimacula yallundae (OY) and O. acuformis (OA). Discovery of the teleomorph of the fungal species in the U.S. Pacific Northwest (PNW) is relatively recent, and the role of apothecia in the epidemiology of eyespot is unclear. Coello’s finding of apothecia of OY and OA in spring and fall in commercial wheat fields demonstrates that sexual reproduction occurs regularly in the PNW and may play a role as primary inoculum in the eyespot disease cycle. However, he found that apothecia survived over summer but not over winter in inoculated field plots. He trapped ascospores of OY and OA in inoculated field plots during spring and fall and found no differences in the number of ascospores trapped from fields with a wheat crop or stubble. He developed regression models based on the environmental variables for ascospore formation. He found that inoculation of winter wheat and spring barley straw segments with a suspension of conidia or mycelial plugs favored apothecia development; however, mature apothecia did not develop in treatments without host substrate. Coello’s research provides a baseline, offering new insights into the role of the sexual stage of Oculimacula spp.

Early exposure to scientific inquiry is important to the next generation of scientists. During the summer and fall of 2014, two high school seniors, Mia Doucet and Allison Hultzgren, from Episcopal High School in Baton Rouge, LA, participated in a program offered by the College of Agriculture and the College of Basic Sciences at Louisiana State University to expose students to science. This program offers high school students opportunities to learn from faculty members and their laboratory groups. The students conducted laboratory and greenhouse research on plant viruses under the supervision of Rodrigo Valverde, a professor in the Department of Plant Pathology and Crop Physiology.

Amy Salamone recently completed the requirements for an M.S. degree from the Department of Plant Pathology, Washington State University (WSU). Her graduate program committee included Debbie Inglis (chair), Tim Paulitz, Lori Carris, and Lynne Carpenter Boggs. Her thesis was entitled “Effects of temporary flooding rotations on Rhizoctonia solani AG-3 and on soil bacterial communities in western Washington.” Temporary flooding rotations (TFR) are sometimes employed in western Washington to enhance shorebird habitat and offer control of certain soilborne plant pathogens. Salamone investigated viability of R. solani AG-3 causing potato diseases under varying soil moisture conditions on naturally infected potato tuber discs and in inoculated soil in growth chambers. She determined viability of R. solani on tuber discs and in inoculated soil and found multiple incidences of mycoparasitism of R. solani by Bionectria spp. and other unidentifed fungi. She assayed survival and pathogenicity of R. solani in inoculated and noninoculated field microplots under various flooding conditions by direct baiting and qPCR. In addition, she also studied the effects of TFR on soil nutrients and properties. Salamone was raised in eastern Tennessee. She received her B.S. degree in biology from Tennessee Technological University and an M.S. degree in coastal science from the University of Southern Mississippi. She came to WSU in January 2013 for her second M.S. degree in plant pathology. At WSU, she was awarded the Alexander A. Smick Scholarship in Rural Community Service and Development in 2013. Salamone plans to continue research on soil fungi and bacteria in Inglis’ vegetable pathology lab.

Edward Thomas was a first-place prize winner in the recent Showcase for Undergraduate Research and Creative Activities (SURCA) competition of Washington State University (WSU). His poster presentation entitled “Techniques for working with obligate parasites—Powdery mildews” in the Organismal, Population, Ecological, and Evolutionary Biology category earned him a Crimson Award and prize of $300. Thomas’ research focused on developing methodology to study early infection processes in powdery mildews. He assessed different procedures for inducing conidial germination in vitro, culturing powdery mildews on detached leaves in two-layered petri plates that he fabricated, and developed an inventory of powdery mildews occurring on the WSU Pullman campus. His powdery mildew inventory proved useful for students who took Plant Pathology 429 in the 2014 fall semester, enabling them to go to specific locations on campus to find powdery mildew specimens for class. Thomas’ online powdery mildew inventory was made using free software and tools that combine maps, photographs, and GPS coordinates that can be used and updated by anyone with a smartphone. His research was sponsored by an undergraduate internship from the College of Agricultural, Human, and Natural Resource Sciences of WSU for summer 2014. He was mentored by Dean Glawe, professor of the Department of Plant Pathology. This year’s SURCA was the largest yet, with 189 students from four campuses plus WSU extension registered to display posters in eight categories on their research, scholarship, and creative activities.

David Linnard Wheeler recently completed the requirements for an M.S. degree from the Department of Plant Pathology at Washington State University (WSU). His graduate program committee was composed of Dennis Johnson (chair), Lori Carris, and Tim Murray. His thesis was entitled “Verticillium dahliae asymptomatically and differentially infects rotation crops of potato in the Columbia Basin, Washington.” Wheeler’s research was to test the hypothesis that rotation crops of potato and mint are asymptomatically infected by Verticillium dahliae by inoculation of rotation crops and isolation of V. dahliae from rotation crops grown in fields with a history of Verticillium wilt. He planted mustards, grasses, Austrian winter pea, mints, and potato in soil infested with eight isolates of V. dahliae, grew them to senescence, and estimated inoculum density of V. dahliae from plants and soil on a semi-selective medium. He found at least one isolate from all asymptomatic rotation crops, significant crop by isolate interactions, different inoculum density among rotation crops and isolates, and effects of infection on plant biomass in specific treatments. From commercial fields, he detected V. dahliae
in rotation crops from 8 of 21 surveyed commercial fields. His results show that specific rotation crops are asymptotically and differentially infected by *V. dahliae*. Wheeler grew up in southeastern Pennsylvania and received his B.S. degree in horticulture from Temple University. At WSU, Wheeler received the Everett and Helen Kreizinger Scholarship. He will continue studying under Johnson’s guidance for his Ph.D. degree at WSU.

**Nenad Tatalovic** recently completed requirements for his Ph.D. degree in plant pathology and microbiology from Iowa State University (ISU). His thesis, “Influence of *Heterodera glycines* infection, plant age, and water availability on foliar and root symptoms of sudden death syndrome disease,” was conducted under the direction of Leonore Leandro, associate professor of plant pathology at ISU. Tatalovic is currently a horticultural apprentice at the Greater Des Moines Botanical Garden.

Jennifer Wilson, an undergraduate student in the Plant and Environmental Sciences program at Clemson University, received a Barry Goldwater Scholarship based on her research contributions and student accomplishments. She is majoring in agricultural biotechnology with a minor in plant pathology. She was a summer intern at the Donald Danforth Plant Science Center in St. Louis, where she completed a study on “Phosphorylation-dependent regulation of G-protein mediated signaling pathways” under the direction of Sona Pandey.

**Collaborations**

Robert Davis, research leader/supervisory research plant pathologist of the Molecular Plant Pathology Laboratory, USDA ARS, Beltsville, MD, was this year’s plant pathology student-invited lecturer of Washington State University (WSU). During his visit to the WSU Pullman campus on March 30, Davis met with students and faculty of the Department of Plant Pathology, and delivered a seminar entitled “Genome fusion and the origin of phytoplasmas: Do plant pathogenic spiroplasmas fit this model?” His research focuses on phytoplasmas and spiroplasmas with interest areas in detection, classification, identification, and taxonomy of the organisms and their genomics, evolution, and host pathogenicity and adaptation in insects and plants.

The Department of Plant Pathology at the University of Arkansas hosted three visiting scientists during the spring 2015 semester. Karen Gomez, from the University of Northern Colorado, presented a seminar entitled “Are mycorrhizal fungi helping plants and insects during three-way interactions?” Melissa Mitchum, from the University of Missouri, presented a seminar entitled “Signaling in plant-nematode interactions.” Jan Leach, from Colorado State University, presented a seminar entitled “The Phytobiomes Initiative: Science and Policy.” The visitors met with faculty and graduate students for in-depth discussions about their research efforts.

From October 2014 to April 2015, Eliezer Rodrigues de Souto, professor in the Department of Agronomy of Universidade Estadual de Maringa, state of Parana, Brazil, was a visiting scholar in the laboratory of Rodrigo Valverde, Department of Plant Pathology and Crop Physiology, Louisiana State University. Souto conducted research on plant endornaviruses. He was supported by a grant from the Conselho Nacional de Desenvolvimento Cientifico e Tecnologico (CNPq), Brazil.

**Awards**

R. James Cook, professor emeritus, interim dean 2003–2005, and retired USDA ARS research plant pathologist, was inducted into the Wall of Honor at the annual recognition. 

People continued on page 86
ceremony of the College of Agricultural, Human, and Natural Resource Sciences (CAHNRS), Washington State University (WSU). Cook is one of the most honored research scientists in USDA and WSU history for his work in plant pathology and biotechnology.

Xiangming Xu, plant disease epidemiologist and leader of the Genetics and Crop Improvement Program at East Malling Research, United Kingdom, has been awarded the Jones-Bateman Cup by the Royal Horticultural Society (RHS). Xu was recognized for his significant scientific contributions and excellence in horticultural research, particularly in applying mathematical and statistical modeling to develop strategies for management of diseases on fruit crops. The RHS Jones-Bateman Cup is awarded only once every three years in recognition of those conducting outstanding original research in fruit culture. Xu’s main research areas include disease epidemiology, developing and implementing disease-forecasting models, fungal population genetics, disease-management measures, and statistical data analysis/modeling. He has developed disease-forecasting models for several diseases in apple and strawberry that are used in commercial horticulture. Over recent years, Xu has been actively engaged in both theoretical and practical studies of biocontrol of foliar pathogens in collaboration with Mike Jeger of Imperial College, contributing toward developing strategies for better exploitation of biocontrol in disease management. Currently, he has been engaging in research to understand soil health in relation to soil microbial population composition. He and his colleagues have successfully applied amplicon-based metagenomics to understand soil microbial population composition in relation to crop production potential.

Guido Schnabel, Department of Agricultural and Environmental Sciences, Clemson University, was awarded the prestigious Godfrey-Snell Award for Excellence in Agricultural Research for 2015. The award is the highest award presented by the College of Agriculture, Forestry, and Life Sciences. Since joining the department in 2000, Schnabel has developed an outstanding fruit disease research program focusing on peaches and strawberries. His program is recognized internationally and he has mentored students from Brazil, China, Germany, and India, as well as the United States. He developed a website (www.peachdoc.com) that provides up-to-date disease information to growers as part of his extension outreach and his latest project is an app called MyIPM that helps growers make management decisions. Schnabel is also recognized as a world leader in the area of fungicide resistance.

New Position

Carolee Bull will become head of the Department of Plant Pathology and Environmental Microbiology in The Pennsylvania State University’s College of Agricultural Sciences, effective September 1. Bull currently is a research plant pathologist for USDA ARS at its Crop Improvement and Protection Research Station in Salinas, CA. Her research program focuses on detection and management of bacterial pathogens, integrated soil and pest management in organic production systems, and evaluation of disease-resistance traits in vegetable and fruit crops. Bull received a bachelor’s degree in botany from Ohio State University, a master’s degree in plant pathology from Washington State University, and a doctorate in plant pathology at Oregon State University, with an integrated minor emphasizing microbial ecology. After post-doctoral work at the Swiss Federal Institute and Université de Lausanne in Switzerland, Bull joined USDA ARS, first in Fresno, CA, then moving to Salinas. She has held adjunct appointments at California State University, Fresno, and California State University, Monterey Bay. She also has mentored numerous students in her laboratory from Hartnell College, a two-year institution in Salinas. Bull will replace David Geiser, professor of plant pathology, who has served as interim department head following the recent retirement of Frederick Gildow.

In Memory

Urban L. Diener passed away on April 26, 2015, at one month short of his 94th birthday. Originally from Ohio, he received a B.A. degree in botany from Miami University, Ohio, and an M.A. degree in mycology from Harvard University in 1945. He worked as an industrial mycologist for two years, but returned to graduate school at North Carolina State University, from which he received his Ph.D. degree in 1953. He joined the faculty in Plant Pathology at Auburn University, where his early research was focused on controlling diseases of vegetables, fruit crops, and pecans. Following a severe drought in 1954 and 1955, that resulted in poor-quality peanuts throughout the southeastern United States, his research attention turned to the role of fungi in deterioration of peanuts in storage. Collaborative research with H. S. Ward, Jr., and N. D. Davis established Diener as a world authority on the relationship of the environment to infection, colonization, and aflatoxin formation by Aspergillus flavus and A. parasiticus in peanuts and maize. He also contributed to highly significant research on ochratoxin A, citrinin, tenuazonic acid, and other toxic metabolites of fungi. Diener’s research has been published in book chapters, published symposia, and numerous refereed papers.

Diener also excelled as a teacher. During his career at Auburn, he developed and taught several courses for which he was consistently acknowledged as a “thorough and dedicated teacher.” He and Davis guided 16 students in receiving advanced degrees dealing with mycotoxicology. Diener had served APS in many ways, including committee work and the Editorial Board of Phytopathology. Diener had been an international resource in the area of mycotoxicology, having served on the National Academy of Science and the National Research Council Advisory Team to Thailand. He was a Fulbright Research Scholar and Lecturer at the University of Campinas in Brazil and served on the USDA Food Safety Task Force and the Mycotoxin Committee of the International Society of Plant Pathologists.

Diener had received many honors during his distinguished career. He was elected a fellow of the American Association for the Advancement of Science, received the Golden Peanut Research Award for Distinguished Achievement from the National Peanut Council, served on the Research Committee of the Alabama Academy of Science, and was elected an APS Fellow in 1988. He remained an active researcher and contributor in the areas of mycotoxicology until his retirement on October 1, 1987. Throughout his life at Auburn, Diener had also been an active contributor to his community through the Boy Scouts, his church choir, the Lion’s Club, and his hobbies which included stamp and coin collecting and growing camellias. Diener is survived by his wife, Jackie.
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Next Month!
Phytopathology July Focus Issue: Emerging and Re-emerging Plant Diseases

TRENDING
The Plant Microbiome at Work
Klaus Schlaeppi and Davide Bulgarelli
MPMI CURRENT REVIEW

Genome, Transcriptome, and Functional Analyses of Penicillium expansum Provide New Insights Into Secondary Metabolism and Pathogenicity
Ana-Rosa Ballester, Marina Marcet-Houben, Elena Levin, Noa Sela, Cristina Selma-Lázar, Lourdes Carmona, Michael Winniewski, Samir Droby, Luis González-Candelas, and Toni Gabaldón

Melon necrotic spot virus Replication Occurs in Association with Altered Mitochondria
Cristina Gómez-Aix, María García-García, Miguel A. Aranda, and María Amelia Sánchez-Pina

Evaluation of a Barley Core Collection for Spot Form Net Blotch Reaction Reveals Distinct Genotype-Specific Pathogen Virulence and Host Susceptibility
A. Neupane, P. Tamang, R. S. Brueggeman, and T. L. Friesen

Association Mapping of Seedling Resistance to Spot Form Net Blotch in a Worldwide Collection of Barley
Prabin Tamang, Anjan Neupane, Sujan Mamidi, Timothy Friesen, and Robert Brueggeman

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## Calendar of Events

### APS-Sponsored Events

**June 2015**
- **10-12** North Central Division Meeting. East Lansing, MI. [www.apsnet.org/members/divisions/nc](http://www.apsnet.org/members/divisions/nc)

**July 2015**
- **19-23** Caribbean Division Meeting. Mexico City, Mexico. [www.apsnet.org/members/division/carib](http://www.apsnet.org/members/division/carib)

**August 2015**
- **1-5** APS Annual Meeting. Pasadena, CA. [www.apsnet.org/meet](http://www.apsnet.org/meet)
- **1-5** Pacific Division Meeting (in conjunction with APS Annual Meeting)

**January 2016**
- **3-7** Northeastern Division Meeting. Philadelphia, PA. [www.apsnet.org/members/divisions/nc](http://www.apsnet.org/members/divisions/nc)

**February 2016**
- **20-22** Southern Division Meeting. Balm, FL. [www.apsnet.org/members/divisions/south](http://www.apsnet.org/members/divisions/south)

**March 2016**
- **23-25** Potomac Division Meeting. Richmond, VA. [www.apsnet.org/members/divisions/pot](http://www.apsnet.org/members/divisions/pot)

**July 2016**
- **30-3** APS Annual Meeting. Tampa, FL.

### Other Upcoming Events

**June 2015**
- **8-12** 23rd International Conference on Virus and Other Graft-Transmissible Diseases of Fruit Crops. Morioka, Japan. [www.icvf23.jp](http://www.icvf23.jp)

**August 2015**
- **10-28** 2015 Rice Research to Production Course. IRRI, the Philippines. [http://ricediversity.org/r2p](http://ricediversity.org/r2p)

**September 2015**
- **6-10** International Workshop on PR Proteins and Induced Resistance. Aachen, Germany. [www.prir2015.rwth-aachen.de](http://www.prir2015.rwth-aachen.de)
- **14-15** Third Plant Genomics Congress: USA. Sr. Louis, MO. [www.globalengage.co.uk/plantgenomicsusa.html](http://www.globalengage.co.uk/plantgenomicsusa.html)

**November 2015**
- **29-Dec 1** 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/caf/nematology/short_course.html](http://www.clemson.edu/caf/nematology/short_course.html)
- **8-10** Soilborne Oomycete Conference. Hawks Cay, Florida Keys. [http://oomyceteconference.org](http://oomyceteconference.org)