2011 APS-IPPC Joint Meeting Preview

The 2011 APS-IPPC Joint Meeting is shaping up to be one of the most productive and exciting meetings in years. Buzz is building as APS members plan their time in Hawaii, adding educational field trips, new networking opportunities, and extended poster viewing time to their itineraries. More than 1,200 abstracts were submitted for the technical program, including 165 oral technical presentations and more than 1,000 technical posters.

This meeting in Hawaii represents APS's first annual meeting outside of the continental United States, Canada, or Mexico. The central location in the Pacific Rim is expected to attract new attendees from around the world, including the Pacific Rim and East Asia. Strong registration and abstract submission numbers confirm that this will be a meeting to remember, with many unique opportunities to learn about specific issues in a tropical climate, as well as hot topics, updates in technology, and the latest research in the field.

APS's partnership with the International Association for the Plant Protection Sciences (IAPPS) also creates an exciting backdrop for our first meeting in Hawaii. IAPPS is an international association that ensures the production of sufficient quality of food/feed/fiber for a growing population and advocates implementation of sustainable plant health management strategies. Both societies have a strong international member and attendee base, and the scientific program focuses heavily on global initiatives and creating opportunities for scientists from around the world to connect with each other. Significant efforts have been made by the APS Annual Meeting Board, led by Carol Ishimaru and Mike Boehm, and representatives from IAPPS, including E. A. “Short” Heinrichs and Bill Tweedy, to ensure that this is truly a joint meeting in which each society is represented throughout all types of sessions.

Don't forget! Plan your travel to stay all day on Wednesday, August 10. New for 2011, Wednesday will be a full day of scientific programming, including afternoon special and technical sessions until 4:00 p.m. The Final Night Party will take place on the evening of Wednesday, August 10, instead of Tuesday as in previous years. On Tuesday afternoon, there are no scientific sessions scheduled so that attendees are free to participate in one of many scientific field trips available.

See the schedule on the following pages for a list of events and special sessions, then visit www.apsnet.org/meet for full session descriptions, presentation titles, and speakers.

2011 APS-IPPC Joint Meeting Preview continued on page 98

APS Announces 2011 Awardees

The following APS members will be honored at the 2011 APS-IPPC Joint Meeting in Honolulu, HI, for their contributions and commitment to both the field of plant pathology and to APS. Biographies for the awardees are available online at www.apsnet.org/members/awards/Pages/2011APSAwardAnnouncement.aspx.

APS Fellows
James R. Alfano, University of Nebraska-Lincoln
Judith K. Brown, University of Arizona
Lynda M. Ciuffetti, Oregon State University
Thomas L. German, University of Wisconsin
Maria L. Gullino, University of Torino
Dennis A. Johnson, Washington State University
Yin-Won Lee, Seoul National University
Themis J. Michailides, University of California
Thomas J. Wolpert, Oregon State University

Excellence in Extension Award
Gary A. Chastagner, Washington State University

Excellence in Industry Award
William E. Dolezal, Pioneer Hi-Bred International, Inc.

Excellence in Teaching Award
Lori M. Carris, Washington State University

International Service Award
Mohammad Babadoost, University of Illinois

Ruth Allen Award
Valerian V. Dolja, Oregon State University

Lee M. Hutchins Award
Guido Schnabel, Clemson University

Noel T. Keen Award for Research Excellence in Molecular Plant Pathology
Daniel F. Klessig, Boyce Thompson Institute for Plant Research and Cornell University

Syngenta Award
Amy O. Charkowski, University of Wisconsin

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Editor’s Corner

A Not-So-Great Debate

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

Recently, there has been much written as to what role, if any, the herbicide glyphosate may have in increasing the severity of various plant diseases. Much of the debate, if you can call it that, has taken place in the “blogosphere” of the Internet, with much of the rhetoric being highly emotional and inflammatory. Socrates, who honed the debating method that bears his name, would cringe at the incivility of this “modern” debating style. Socratic debate, by the way, is defined as a discussion between individuals with opposing viewpoints that is based on asking and answering questions that are designed to stimulate critical thinking and clarify ideas.

Debate is certainly not new to our discipline. Students of plant pathology history will recall the Smith-Fischer debates that began in 1897. Again I turn to E. C. Large’s Advance of the Fungi for a brief summary. In 1897, Erwin F. Smith, chief plant pathologist for the USDA “was more than a little taken aback to find the whole of his work apparently set at naught by one Alfred Fischer, eminent Professor of Bacteriology at Leipzig.” In an important textbook, “Fischer dismissed bacterial diseases of plants in about three-quarters of a page, stating categorically that bacteria had no way of insinuating themselves into the tissue of living plants…There were no bacterial diseases of plants…Fischer implied that those who had published papers on bacterial diseases of plants were all grossly incompetent; misled by faulty experiments and dirty technique.” Smith replied that “To deny their [bacteria] existence without making experiments was to revert to the scholasticism of the Middle Ages.” Smith went on to chastise Fischer for his unwillingness to read anything published in an American journal. “Here is a case of a professor in one of the most renowned German universities, who does not think it necessary to read English, and still worse, who writes dogmatically on a subject without exact knowledge, and is not familiar even with the readily accessible literature in his own language.” Smith’s rebuke of Fischer was published in the German journal Centralblatt fur Bacteriologie (Central Journal of Bacteriology) in 1899. Fischer replied without backing down, and Smith countered with his own rebuttal.

As editor-in-chief of Phytopathology News, I would welcome letters to the editor on “debatable” topics and encourage rebuttals as appropriate. Just keep them civil, please.

2010 Art in Phytopathology Submissions:
Blue Vesicle, Orange Mycelial Space, and Tangled Up in Blues

Craig Cavin, USDA ARS FDWSRU

I began my college studies as an art major in the early 70s and have always had a deep appreciation of nonobjective abstract art and Chinese calligraphy. My studies changed in the 80s as I shifted to the sciences, specifically plant pathology and my current discipline biological control of weeds with plant pathogens. The inspiration for the paintings that I entered is difficult to explain as it is intuitive rather than rational but as close as I can understand it, it is that, in the course of examining prepared slides of fungal pathogens, there sometimes comes a moment where what I am seeing under the scope resonates with an artistic visual sensibility that I have cultivated such that I want to explore those relationships of line and space and color on a two-dimensional surface with paint to share that sense of wonder that I experience. This inspiration is the same for all three pieces that I submitted.
The newest addition to the Editorial Board of APS PRESS is Frank Dugan, familiar to many of us as the author of the books *The Identification of Fungi and Fungi in the Ancient World*. Dugan has a third book in press right now, so his commitment to publishing is quite apparent. He serves as a research plant pathologist with the USDA ARS Western Regional Plant Introduction Station (WRPIS) in Pullman, WA, and is adjunct faculty with the Department of Plant Pathology at Washington State University (WSU) and affiliate faculty with the Department of Forest Resources of the University of Idaho.

Dugan’s research focuses on diseases of legumes, grasses, and *Allium* species, with occasional forays into diseases of other taxa in the WRPIS germplasm collection, which has 2,400 plant species to choose from. Dugan’s interests and publishing activities extend to *Cladosporium* spp. and other anamorphic ascomycetes and to historical aspects of plant pathology and mycology. He has a B.S. degree in biological oceanography from the University of Washington and an M.S. degree in forestry from the University of Montana. He obtained his Ph.D. degree in plant pathology and mycology from WSU. Over his career, he has worked for the USDA USFS in the Lolo National Forest, for the USDA ARS on tree fruit research, and with the American Type Culture Collection. APS PRESS is fortunate to have added the expertise of someone who knows exactly how mushrooms, mildews, molds, and yeasts shaped the early civilizations of Europe…and much else besides. He has supplemented his plant pathology career with work as an illustrator and comic book artist. Along with the other senior editors, Dugan helps to shepherd authors and editors through the process of publishing a book or other informational product through APS PRESS. Please contact him (fdugan@wsu.edu) or any of the other board members with your ideas.

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**COMMITTEE SPOTLIGHT**

**Diversity and Equality**

Li-Jun Ma, Committee for Diversity and Equality Chair, lijun@broadinstitute.org

The mission of the Committee for Diversity and Equality, formerly known as the Joint Committee of Women in Plant Pathology and Cultural Diversity, is to assist and encourage career development and personal growth of women and members of minority groups within APS.

In a continuing effort to pursue this mission, the committee organized a workshop for the 2010 Annual Meeting, “Mentoring up and down the ladder of success.” Six senior scientists from different disciplines and various racial and gender backgrounds were invited to share their experiences, answer questions, and provide solutions to practical issues. Last year’s workshop attracted more than 50 attendees, including graduate students, post-docs, and junior faculty members, and covered three topic areas: how to build your own personal network (old boys club), diverse strategies for mentoring a diverse workforce, and how to mentor your boss.

This mentoring workshop provided insight and guidance to our members facing challenges associated with career development and delivered valuable information on how to facilitate the path to success. The great success of the discussions encouraged a follow-up social/workshop mix for the 2011 APS-IPPC Joint Meeting in Hawaii, entitled “Culture shock 101: Come to discuss the most shocking stories of when cultures clash. Assumptions are annihilated and we learn to get along despite our differences.”

The workshop’s objective is to learn to appreciate diversity, understand cultural differences associated with the diversity, and be better equipped to cope with the potential challenges one may encounter if unprepared. Along with the fruitful discussions, we will have talented people teaching cultural dance steps! Come to have fun and win prizes!
Public Policy Update

U.S. Agricultural Research Loses Out in 2011 Funding Battle

Kellye A. Eversole, Public Policy Board DC Representative, eversole@eversoleassociates.com

Below is a recent excerpt on FY 2011 funding as it applies to agricultural science from the Phytopath Policy Blog. The blog, available at www.apsnet.org/members/outreach/ppb/blog, is the new hub on APSNet for perspectives and updates on the latest global public policy news as it applies to our science, our society, and our members. Be sure to check the blog regularly for the latest updates. PPB wants to hear your point of view. Thoughts? Criticisms? Feedback? Comments on PPB’s blog posts are encouraged. Let’s get the conversation started!

To read the press releases coming out of the U.S. Congress after enactment of the final FY 2011 appropriations legislation, one would have the impression that science funding was spared. Indeed, in the Senate Appropriations Committee press release, the claim is that the FY 2011 funding will promote “science, clean energy, and innovation.” The actual appropriations levels for science, however, paint a different picture, and for agricultural research at USDA, Edward Munch’s “Scream” seems more appropriate for every program except USDA formula funding.

What did happen to agricultural science in the FY 2011 bill? Overall, USDA discretionary spending (which includes most agricultural research) fell by 14% from the FY 2010 enacted level. While it will be a few more weeks and perhaps a couple of months before we know the full ramifications for USDA programs of importance to plant pathology, we do know the overall program levels and a few early details of the FY 2011 appropriations.

Agricultural Research Service (ARS) research funding was cut by 10% and included the complete elimination of all funds for congressionally directed earmarks. In addition to this reduction, $230 million in funding for ARS buildings and facilities was eliminated. The cuts will affect as many as 30 ARS scientists and the elimination of most post-doctoral positions.

For the National Institute on Food and Agriculture (NIFA), overall funding was cut by a little more than 9%. Research and education activities were reduced by 11%, extension by 3%, and integrated activities by a whopping 38%. Within each of these broad categories, there were clear winners and losers. The winners were most of the so-called “formula funded” programs with the following receiving increases: Hatch Act Program (+10%), McIntire-Stennis Cooperative Forestry (+13%), 1890s Research (+5%), and capacity building grants up 6%. Within extension programs, the formula grant program authorized by Smith-Lever Sections 3(b) and 3(c) received a slight reduction (1.2%) in contrast to the increases for most other formula programs. Integrated activities within NIFA suffered a dramatic overall reduction of 38% from the FY 2010 program level. The Food and Agriculture Defense Initiative which funds the National Plant Diagnostic Network (NPDN) was cut by 39%, the methyl bromide transition program was reduced by 35%, and food safety suffered a 25% reduction. Approximately $2.5 million in funding for the ipm-Pest Information Platform for Extension and Education (PIPE) may also be in jeopardy over the next year. Almost $132 million was cut from NIFA special grants (i.e., congressionally directed earmarks). Of the approximately $30 million in programmatic increases within NIFA (i.e., reallocation from other NIFA programs), only $3 million (an increase of 1%) was allocated for USDA’s flagship competitive program—the Agriculture and Food Research Initiative (AFRI), bringing the total funding available to $265 million. With a little more than 50% of the FY 2011 AFRI funding “mortgaged” to cover the costs of continuing the grants made in FY 2010, funding for new awards will be at the lowest level since 2002.

In addition to research programs at USDA, funding for the Animal Plant Health Inspection Service (APHIS) was reduced by almost 5%. Almost 140 temporary positions will be eliminated at APHIS this fiscal year and many positions of retiring scientists will not be filled, thereby increasing the workload for remaining staff.

USDA was not the only research agency to see funding reduced. After two decades of constant growth, $230 million (less than 1%) will be pared from the budget of the National Institutes of Health, and the National Science Foundation will see a $67 million reduction (about 1% less than the FY 2010 level). At the Department of Energy, the Office of Science will see a net overall decrease of $20 million (less than 0.5% reduction). As a result of the elimination of congressional earmarks and programmatic reallocations within the continuing resolution, DOE’s new competitive Advanced Research Projects Agency-Energy (ARPA-E) program will have $180 million to support high-risk, but promising energy technologies.

As the dust is settling over the FY 2011 budget battle, it is clear that science programs (other than defense-related programs) will not be spared from funding cuts. Is the worst over? Unfortunately, this is the first round of what will likely be a series of bouts over the next few years. The recent downgrading of the U.S. debt to “negative” is forcing Congress and the administration to take severe measures to reign in the U.S. budget. Already, Congress is discussing something akin to the 1980s Gramm-Rudman Bill that enacted a “trigger mechanism” which led to automatic across-the-board funding cuts in discretionary programs when appropriations exceeded statutory levels. Given that the majority of government spending falls in mandatory programs and virtually all agricultural research falls in the “discretionary program” category, this could have dire consequences for agricultural science, extension, education, and plant protection programs. If we want agricultural research funding to avoid the draconian cuts looming in our future, each of us must take action to educate our members of Congress as to the importance of agricultural research.

“If we want agricultural research funding to avoid the draconian cuts looming in our future, each of us must take action to educate our members of Congress as to the importance of agricultural research.”
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Congratulations to Daniel J. Anco, Sydney E. Everhart, Andrew V. Gougherty, and Alissa B. Kriss on being selected as speakers for the 11th I. E. Melhus Graduate Student Symposium that will take place on Tuesday, August 9, 2011, during the 2011 APS-IPPC Joint Meeting in Honolulu, HI. This year’s symposium is entitled “Today’s Students Making a Difference in Plant Disease Epidemiology and Disease Management.”

The 11th I. E. Melhus Graduate Student Symposium is sponsored by the APS Epidemiology Committee and the APS Foundation. Each of the four Melhus awardees will receive a $1,000 travel award from funds provided by the I. E. Melhus Fund (APS Foundation), as well as contributions from private industry sponsors, including Agdia, Inc., BASF Corporation, E. I. DuPont de Nemours and Co., and Pioneer Hi-Bred International, Inc.

Graduate student speakers for the 11th I. E. Melhus Graduate Student Symposium were selected by an expert panel of judges who evaluated a five-page research summary written by the applicant and three letters of support. The APS Epidemiology Committee and the APS Foundation wish to extend a special thanks to Kira Bowen (Auburn University), David Gent (USDA ARS, Oregon State University), Peter Ojiambo (North Carolina State University), and Stephen Wegulo (University of Nebraska) for serving as judges for the symposium.

The 2011 I. E. Melhus Speakers
Anco is currently working on a Ph.D. degree in plant pathology with Lawrence Madden and Mike Ellis at The Ohio State University (OSU). Anco expects to complete his degree in December 2011. Anco’s Melhus presentation is entitled “Effects of temperature and leaf wetness duration on the sporulation rate of Phomopsis viticola on infected grape canes.”

Everhart is working on a Ph.D. degree in plant pathology at the University of Georgia (UGA), under the direction of Harald Scherm, and is planning to complete her degree in August 2012. Everhart’s presentation is entitled “Spatial distribution of brown rot symptom types and fine-scale genetic structure of populations of Monilinia fruticola within and among stone fruit tree canopies.” Everhart has also been selected by APS to receive the APS Foundation Raymond J. Tarleton Student Fellowship Award at the 2011 APS-IPPC Joint Meeting.

Gougherty will complete his M.Sc. degree in ecology and evolutionary biology from Iowa State University (ISU) in May 2011, working under the direction of Forrest W. Nutter, Jr. Gougherty’s Melhus presentation is entitled “Epidemiological analysis of the U.S. and Canadian Plum pox virus eradication programs.”

Kriss is working toward a Ph.D. degree in plant pathology from OSU and plans to graduate in December 2011. Kriss’ symposium presentation is entitled “Climate, weather, and the heterogeneity of Fusarium head blight.” Her coadvisors are Madden and Pierce Paul.

Honorable Mention Awards
Three I. E. Melhus applicants will receive Honorable Mention Awards during this year’s symposium. They are Vanessa McMillan, Rothamstead Research, West Common Harpenden, Hertfordshire, United Kingdom, for her research on “Identification and characterization of resistance to the take-all fungus in wheat.” McMillan’s graduate research was supervised by Richard Gutteridge and Kim Hammons (University of Exeter) and Jenna Stonard (Home Grown Cereals Authority). Erika Saalau Rojas (ISU) received an honorable mention for her research on “Bacterial wilt of cucurbits: Assessment of epiphytic survival and genetic diversity of its causal agent, Erwinia tracheiphila, and evaluation of row covers in disease management.” Rojas’ research was conducted under the direction of Mark Gleason. Sarah Thomas (UGA) received an honorable mention recognition for her research on “Advances in managing blueberry flower infection by Monilinia vaccinii-corymbosi.” Thomas’ graduate research was conducted under the direction of Scherm.

The Irving E. Melhus Graduate Student Symposium Fund was established with the goal of enhancing graduate student professionalism, as well as to memorialize this influential plant disease epidemiologist. Melhus was elected into the first class of APS Fellows in 1965 and served as APS president in 1926.

Congratulations to the 2011 APS Foundation Awardees

Fifty-three members received awards from the APS Foundation, totaling $38,100 given in 2011. Thanks to all of the APS Foundation donors for making this support possible. Be sure to stop by the foundation’s new booth in Hawaii to continue to create possibilities for plant pathology!

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<td>The Albert Paulus Award</td>
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<td>Bin Tian</td>
<td>The Pennsylvania State University</td>
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<td>The Malcolm and Catherine Quigley Award</td>
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<td>Timothy D. Miles</td>
<td>Michigan State University</td>
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<td>The Milt and Nancy Schroth Award</td>
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<td>Fan Yang</td>
<td>University of Illinois at Urbana-Champaign</td>
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<td>The Luis Sequeira Award</td>
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<td>Laura L. Avila</td>
<td>Michigan State University</td>
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<td>The Malcolm C. Shurtleff Award</td>
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<td>Sara Thomas</td>
<td>University of Georgia</td>
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<td>The George Herman Starr Award</td>
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<td>Ansuya Jogi</td>
<td>University of Georgia</td>
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<td>The H. David Thurston Award</td>
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<td>Liangliang Gao</td>
<td>University of Minnesota</td>
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<td>The Turfgrass Pathology Award</td>
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<td>Renee Rioux</td>
<td>University of Wisconsin</td>
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<td>The Virology Award</td>
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<td>Alma G. Laney</td>
<td>University of Arkansas</td>
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Sydney Everhart Named the 2011 Raymond J. Tarleton Student Fellow

The APS Foundation is pleased to announce Sydney Everhart as the 2011 recipient of the Raymond J. Tarleton Student Fellowship. Everhart is a fourth-year Ph.D. student at the University of Georgia (UGA) under the advisement of Harald Scherm. This highly competitive fellowship, in the amount of $1,500 for 2011, is awarded to only one student annually, based on merit of research, accomplishments, and letters of recommendation.

Everhart is combining field research with molecular biology to answer epidemiological questions about fruit tree pathogens. Her Ph.D. research seeks to characterize three-dimensional (3-D) spatial patterns of brown rot (caused by Monilinia spp.) in intensively mapped canopies of stone fruit trees and to determine the fine-scale genetic structure of the causal agent’s populations in these canopies. As such, her work is at the interface of quantitative epidemiology and population genetics. Everhart—together with her advisor and collaborators Imre Holb at the University of Debrecen, Hungary, and Lynne Seymour and graduate student Ashley Askew in the UGA Department of Statistics—has made several major achievements as part of this project. She is using a virtual-reality motion tracking device to map the x-y-z coordinates of symptomatic tree elements with millimeter accuracy. She is extending Ripley’s K statistic (an algorithm for analyzing spatial patterns) to three dimensions to correct for canopy edge effects. And she has developed and is currently evaluating a set of microsatellite markers for M. fructicola on peach. In addition to shedding light on epidemiological processes, such as the role of inoculum sources and mechanisms of spore dissemination for brown rot disease, her project will provide general tools and resources for epidemiological, ecological, and genetic research in tree canopies and other 3-D habitats. The first paper resulting from this work has been published recently in Annals of Botany.

Although her specialty is in epidemiology, Everhart has a broad interest in all areas of plant pathology and allied disciplines and engages in these areas through extensive reading and coursework. She is a prolific writer and reader as evidenced by almost 20 published book reviews in The Iowa Horticulturist, for which she currently serves as editor.

The Raymond J. Tarleton Fellowship will help support the laboratory costs associated with isolating DNA and genotyping more than 600 fungal isolates. In addition to this award, Everhart has also been selected to participate in the 11th I. E. Melhus Graduate Student Symposium, which will take place during the 2011 APS-IPPC Joint Meeting in Honolulu, HI.
Vote for the Winning Videos!

Video entrees for the 2011 APS Office of Public Relations and Outreach (OPRO) video contest are in!

Now, it’s up to you to vote for your favorite! In early June, each member can vote for one video in each category. Your vote will determine the winner for each category. Then, a special panel of judges will select the winning videos. The first-place winner will take home $500! The runner-up will receive an APS logo Flip camera to capture more of those amazing plant pathology moments! Contest winners will be announced during the 2011 APS-IPPC Joint Meeting. Details on the voting process are available at www.apsnet.org/members/outreach/opro/Pages/VideoContest.aspx.

You’re invited to visit the OPRO booth during the meeting to check out all of this year’s competitors! Be sure to watch the contest submissions on the APS YouTube channel at www.youtube.com/plantdisease.

APS at the National Conference for Undergraduate Research

David Gadoury of Cornell University’s Department of Plant Pathology at the New York State Agricultural Experiment Station staffed a display for APS at the National Conference on Undergraduate Research (NCUR) on March 31 and April 1 at Ithaca College (www.ncur.org). More than 3,000 undergraduate scholars attended, most of whom prepared oral or poster presentations for the delegates. Thirty participants were interviewed and expressed an interest in being recruited for Research Experience for Undergraduates (REU) programs and eventual graduate study in plant pathology by interested programs. While this is a small percentage of the total attendance at NCUR, it also represents more than one third of the annual Ph.D. output of U.S. plant pathology graduate programs. Interviewees provided names and e-mail addresses for distribution by APS to department chairs and directors of plant pathology REU and graduate programs for future contacts regarding the application process for various institutions. Contact information is available from Gadoury (dmg4@cornell.edu). The scholars interviewed would be considered exceptionally well qualified at any plant pathology department. This is an especially rich pool of potential applicants for REU programs and graduate study, and it is likely that many can be recruited if contacted in the near future while their initial exposure to plant pathology is still fresh in their minds.

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Phytopathology News 97
The 2011 Plenary Session, entitled Implementing Change: Meeting Global Plant Protection Challenges, will reflect the breadth and depth of APS and IAPPS as two leading scientific societies that focus on plant health. The session will feature speakers who have an international perspective on challenges and changes in plant health and the global issues facing agriculture and in feeding a growing population. The speakers will examine issues in research, outreach, education, and funding that are impacting our science and efforts to address societal needs. The 2011 Plenary Session speakers include:

Roger Beachy  
Formerly with the National Institute of Food and Agriculture, USDA, U.S.A.

Beachy was appointed by President Barack Obama as the first director of the new National Institute of Food and Agriculture (NIFA), a U.S. Department of Agriculture agency. Beachy, founding president of the Donald Danforth Plant Science Center (DDPSC) in St. Louis, MO, joined NIFA in October 2010. The new agency awards competitive grants to fund research and technological innovations aimed at making agriculture more productive, environmentally sustainable, and economically viable. Beachy is also vice chair of the DDPSC’s Board of Trustees.

Richard Tapia  
Center for Excellence and Equity in Education, Rice University, U.S.A.

Tapia is a mathematician in Rice University’s Computational and Applied Mathematics Department who holds the rank of university professor, the university’s highest academic title awarded to only six individuals in the university’s history. Among his many honors is his election to the National Academy of Engineering, the first Hispanic to receive this honor, and honorary doctorates from Carnegie Mellon University, Colorado School of Mines, and Claremont Graduate University. Two professional conferences have been named in his honor: the Richard Tapia Celebration of Diversity in Computing Conference and the Blackwell-Tapia Conference. Tapia served on the National Science Board from 1996 to 2002.

Elske van de Fliert  
Centre for Communication and Social Change, University of Queensland, Australia

van de Fliert is codirector and principal research fellow at the Centre for Communication and Social Change, the University of Queensland (UQ), Australia. She obtained a Ph.D. degree in communication and innovation studies from Wageningen University, the Netherlands, in 1993. Prior to joining UQ in 2006, van de Fliert worked for the Food and Agriculture Organisation and the International Potato Centre and as a freelance consultant in a range of countries, mainly in Southeast Asia in research, development, and teaching positions. Her main research interests are in the areas of participatory development communication and impact assessment of sustainable rural development and social change.

Robert Zeigler  
International Rice Research Institute, U.S.A.

Zeigler is an internationally recognized plant pathologist with more than 30 years of experience in agricultural research in the developing world. As director general, Zeigler is the chief executive officer of the International Rice Research Institute (IRRI), an international nonprofit organization that undertakes research on all aspects of rice. IRRI’s mission is to apply science to improve productivity of rice farming and thereby improve the well being of rice producers and consumers worldwide. He also serves as a spokesperson on a wide range of issues that affect the rice economy. He is the founding chair of the board of the IRRI Fund Singapore, an incorporated nonprofit charitable organization established to raise the profile of rice research and generate funding for it. He is the chair of the Board of Directors of the Association of International Agricultural Research Centers (AIARC). He earned degrees at Cornell University, Oregon State University, and the University of Illinois (high honors) and is an elected fellow of several international societies, including APS.

Leadership Training Opportunities

Discover your unique leadership skills and learn how to apply them in your professional life. Space is limited, so don’t delay. Preregistration is required.

APS Leadership Institute—Workshop I  
Friday, August 5 • 8:00 a.m. – 4:30 p.m.

This institute is designed to help individuals discover their unique leadership skills and begin to apply those skills to their professional, personal, and societal lives. This first in a series of two highly engaging workshops, facilitated by Teri Balser, University of Wisconsin-Madison, will cover what and who are leaders, why leadership is critical to your career and profession, types of leaders, leadership and personalities, developing effective leaders, leaders and changes, and leaders in
professional organizations. Attendance is limited to 50 participants and preregistration is required. Fee: $95

**APS Leadership Institute—Workshop II**

Saturday, August 6 • 8:00 a.m. – 4:30 p.m.

Building on the knowledge gained in Workshop I, the APS Leadership Institute—Workshop II is designed to help individuals go deeper in their understanding of the interpersonal aspects of leading and managing and explore ways to apply their understanding to areas of conflict or change in their professional, personal, and societal lives. Attendance is limited to 50 participants and preregistration is required. Fee: $95

**Start with Talent, Finish with Strength**

**Two opportunities to attend!**

Workshop I—Saturday, August 6 • 10:00 a.m. – 12:00 p.m.

Workshop II—Saturday, August 6 • 1:00 – 3:00 p.m.

Monsanto talent management experts will conduct a personal development workshop for students and post-docs. The workshop will be presented twice with lunch provided between the two sessions so registrants in each group can network. The workshop is based on Gallup’s extensive understanding of individual strengths and will help you better understand your strengths and how you can harness these to make you more effective. To participate, some work must be completed prior to the session. Attendance is limited to 60 participants (30 per session) and preregistration is required. Fee: $15

**Field Trips and Workshops**

**Workshops**

**Saturday, August 6**

Contemporary Methods in Population Genetics for Plant Pathology • 1:00 – 4:00 p.m.

Coordinated Agricultural Projects: Making CAPs Work for You! • 1:00 – 3:30 p.m.

DNA-Based Pathogen Detection Methods: *Ralstonia solanacearum*, A Case Study • 9:30 a.m. – 4:00 p.m.

Get Your Picture on the Cover! Producing Better Photographs for Scientific Publication • 1:00 – 4:00 p.m.

IPM Feed for the Future • 5:30 – 8:30 p.m.

KNOW New Pathogens: Why and How (Improving Infrastructure and Capacity to Predict, Detect, and Respond to New Pest Introductions) • 8:00 a.m. – 12:00 p.m.

Microbial Collections: Practice and Management • 1:00 – 4:00 p.m.

**Field Trips**

**Saturday, August 6**

Application of Biotechnology to Meet the Challenges of Crop Production in the Tropics • 5:00 a.m. – 8:00 p.m. (Registration closed May 16 for this field trip.)

Fruit, Vegetable, and Ornamental Field Tour • 8:00 a.m. – 7:30 p.m. (Registration closed May 16 for this field trip.)

Pre- and Postharvest Diseases of Tropical Fruits • 8:00 a.m. – 5:30 p.m.

Tropical Forest Pathology • 8:00 a.m. – 6:00 p.m.

Turfgrass Field Tour • 8:00 a.m. – 4:30 p.m.

**Tuesday, August 9**

There are no scientific sessions scheduled for Tuesday afternoon, so you are free to participate in one of the following scientific field trips. Preregistration is required.

Bishop Museum—Behind the Scenes • 1:00 – 5:00 p.m. • Fee: $65

Botanical Gardens Old and New • 1:00 – 5:15 p.m. • Fee: $75

Diversified Agriculture of Central Oahu • 12:15 – 6:45 p.m. • Fee: $89

Hawaiian Environment from a Hawaiian Perspective • 12:30 – 6:30 p.m. • Fee: $85

Hawaiian Fungal Foray • 1:00 – 7:30 p.m. • Fee: $45

Lyon Arboretum and Botanical Garden • 1:00 – 5:00 p.m. • Fee: $65

Nalo Farms • 1:00 – 4:30 p.m. • Fee: $69

North Shore Field Trip to Waimea Valley • 12:00 – 6:30 p.m. • Fee: $89

Rainforest Hike • 12:30 – 4:30 p.m. • Fee: $99

Watershed Walk—Heeia • 12:30 – 5:45 p.m. • Fee: $99

**Additional Networking and Educational Opportunities**

Make personal connections that will last throughout your career.

**Subject Matter and General Policy Committees**

Saturday, August 6 • 6:30 – 8:00 p.m. and 8:00 – 9:30 p.m.

Sunday, August 7 • 8:30 – 10:00 a.m.

Did you know that anyone can attend a subject matter and general policy committee meeting at the 2011 APS-IPPC Joint Meeting? Just drop in! Sitting in on a committee meeting during the joint meeting gives you the opportunity to meet committee members and learn more about what committees do without any commitment. If you like what you see, you can apply to join a committee and help tackle important issues, influence future annual meeting content, and make sure your ideas are heard.

**University Alumni Socials**

Sunday, August 7 • 4:00 – 4:45 p.m.

Connect with your colleagues at the alumni socials! See the annual meeting website for participating schools.

**Industry & Extension Social: Ruler of the Sea Catamaran**

Sunday, August 7 • 6:15 – 9:15 p.m.

This is your unique opportunity to visit with colleagues and industry representatives from a variety of companies while enjoying one dinner party you will not forget! Step aboard the amazing 170-x-50-foot “Ruler of the Sea” catamaran for a casual, fun-filled sunset sail and delicious island flavors. Take in panoramic views of the Pacific, world-famous Waikiki, and the city of Honolulu as you cruise down the coast. While watching the sunset, dine buffet style and watch a captivating Polynesian show with dancers, drummers, and chanters. Preregistration is required. A limited number of tickets is available.

**New Day! Final Night Celebration**

Wednesday, August 10 • 6:30 – 9:30 p.m.

New day and time for 2011! The Final Night Party will take place Wednesday evening, instead of Tuesday as in previous years. The 2011 Final Night Celebration will take advantage of our unique location in Hawaii with local food and entertainment. This event is a traditional favorite for attendees and is not to be missed!

**Registration and Hotel**

APS has negotiated significantly discounted rates at two hotels located within walking distance of the Hawaii Convention Center. These are the best rates you will find and the closest you will be able to stay to the Hawaii Convention Center. Plus, staying at an APS-designated hotel helps APS meet the financial obligations we have made in order to secure these rates for our attendees.

**Register today!** Registration is open for the 2011 APS-IPPC Joint Meeting. View the registration brochure, download the registration form, or register online at www.apsnet.org/meet.

**Registration deadline.** Regular registration closes June 29, but you may register late/onsite up until your attendance at the meeting.
**Preliminary Schedule subject to change**

Visit [www.apsnet.org/meet](http://www.apsnet.org/meet) for the full daily schedule, including full descriptions and times for all scientific sessions.

### Saturday, August 6

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>Various Times</td>
<td>Field Trips and Workshops, Committee Meetings, Committee Meetings</td>
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<tr>
<td>6:30 – 8:00 p.m.</td>
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<td>8:00 – 9:30 p.m.</td>
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### Sunday, August 7

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<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:30 – 10:00 a.m.</td>
<td>Committee Meetings, IAPPS Opening General Session and Awards Ceremony</td>
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<tr>
<td>9:00 – 10:00 a.m.</td>
<td>APS Opening General Session with Awards Ceremony</td>
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<tr>
<td>10:30 a.m. – 12:00 p.m.</td>
<td>Special Sessions</td>
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<td>1:00 – 4:00 p.m.</td>
<td>Technical Sessions</td>
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### Monday, August 8

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<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30 a.m. – 8:00 p.m.</td>
<td>Poster Viewing</td>
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<td>8:30 – 11:30 a.m.</td>
<td>Special Sessions</td>
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<td>8:30 – 11:30 a.m.</td>
<td>Technical Sessions</td>
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### Tuesday, August 9

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<th>Time</th>
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<tbody>
<tr>
<td>7:30 a.m. – 8:00 p.m.</td>
<td>Extended Time! Poster Viewing</td>
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<tr>
<td>7:30 a.m. – 11:30 a.m.</td>
<td>Extended Time! Poster Viewing</td>
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<tr>
<td>8:30 - 11:30 a.m.</td>
<td>Technical Sessions</td>
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<tr>
<td>8:30 - 11:30 a.m.</td>
<td>Extended Time! Poster Viewing</td>
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### Wednesday, August 10

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<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00 a.m. – 1:00 p.m.</td>
<td>Registration</td>
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<tr>
<td>8:30 – 11:30 a.m.</td>
<td>Special Sessions</td>
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<td>8:30 – 11:30 a.m.</td>
<td>Technical Sessions</td>
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### Extended Time

- Poster Viewing
- Exhibits Open
- Plenary Session
- Exhibits Open
- **Extended Time!** Poster Viewing

### New Day and Time

- Final Night Celebration
- **New Day and Time!** Final Night Celebration

*Preregistration required*
**AC Diagnostics, Inc. (ACDI)**
1131 W. Cato Springs Road, Fayetteville, AR 72701; Phone: +1.479.595.0320 or +1.479.251.1960; Fax: +1.479.251.1791; Web: www.acdiainc.com. ACDI, a leading diagnostic company, provides high-quality diagnostic products with affordable rates. ACDI offers ELISA reagents/kits for testing more than 300 plant pathogens and new product immunocapture PCR kits. They also provide testing services and contract research for customer requirements.

**Agdia, Inc.**
30380 County Road 6, Elkhart, IN 46514; Phone: +1.574.264.2615 or 1.800.622.4342; Fax: +1.574.206.9360; E-mail: info@agdia.com; Web: www.agdia.com. For 30 years, Agdia, Inc. has provided the agricultural industry with testing solutions to assist in the diagnosis and management of disease-causing plant pathogens. Agdia offers the most comprehensive line of testing options in the industry, including ELISA, ImmunoStrip on-site test kits, molecular diagnostics, and a full-service testing services laboratory. Today, Agdia remains committed to providing industry-leading products and services so that all sizes of growing operations, worldwide, can be more confident at growing healthy and profitable crops. The Agdia team looks forward to meeting with you at our booth to learn more about your diagnostic needs. We are also always available to meet with you outside exhibit hours.

**American Peat Technology LLC**
1132 Airpark Drive, Aitkin, MN 56431; Phone: +1.218.927.7888 or +1.218.831.3893; Fax: +1.218.927.3272; Web: www.americanpeattech.com. American Peat Technology (APT) is a leader in the manufacturing of microbial carriers using reed sedge peat. APT is a leading supplier of media for the rhizobia/soybean inoculant industry. Product is available in granular and powdered forms, has superior shelf life, and has proven to be an excellent microbe carrier.

**BASF Corporation**
26 Davis Drive, P.O. Box 13528, Research Triangle Park, NC 27709; Phone: +1.919.547.2000; Fax: +1.919.547.2488; Web: www.basf.com/usa. The BASF agricultural products portfolio includes Cabrio, Caramba, Headline, Headline AMP, Endura, Forum, Twinline, and Pristine fungicides in agricultural production; Charter and Stamina fungicides in seed treatment; and Insignia, Emerald, Trinity, and Pageant fungicides in turf or ornamentals. These products feature the active ingredients pyraclostrobin, boscalid, dimethomorph, metconazole, or triticonazole.

**Bayer CropScience**
2 T. W. Alexander Drive, Research Triangle Park, NC 27709; Phone: +1.919.549.2000; Fax: +1.919.549.2778; Web: www.bayercropscienceusa.com. Bayer CropScience is one of the world’s leading innovative crop science companies in the areas of crop protection, seeds, and plant biotechnology. Bayer CropScience offers an outstanding range of products and support for modern sustainable agriculture and for nonagricultural applications. Crop protection products to be highlighted at the exhibit include Stratego YLD, Votivo, Luna brands, Adament, Proceed, Proline, Prosaro, and Scala.

**BigC**
Suite 116, 20655 S. Western Avenue, Torrance, CA 90501; Phone: +1.310.618.9990; Fax: +1.310.618.9996; Web: www.bigc.com.

**Bio Chambers Incorporated**
477 Jarvis Avenue, Winnipeg, MB R2W 3A8, Canada; Phone: +1.204.589.8900; Fax: +1.204.582.1024; E-mail: info@biochambers.com; Web: www.biochambers.com. See a live demonstration of how easy it is for us to provide technical support for our growth chambers and rooms in your facility! Visit our booth to tell us your needs and pick up information on our popular products.

**BIOREBA AG/Eurofins STA Laboratories**
1821 Vista View Drive, Longmont, CO 80504; Phone: +1.303.651.6417 or +1.408.846.9964; Fax: +1.303.772.4003; Web: www.stalabs.com/BIOREBA_AG_Products/BIOREBA_AG_Products.php. Eurofins STA Laboratories and BIOLG AG are partners in providing agro-diagnostic products and services for results you can trust. Eurofins STA Laboratories, a leading independent diagnostic laboratory, is the exclusive distributor of BIOLG products in the United States. Eurofins STA offers effective seed quality, plant pathogen diagnosis, and disease eradication services for agricultural industries. BIOLG’s R&D laboratory develops and produces reagents and complete ready-to-use kits for the detection of plant pathogens.

**British Society for Plant Pathology**
Marlborough House, Basingstoke Road, Reading RG7 1AG, United Kingdom; Phone: +44 1603 450286; E-mail: publicity@bspp.org.uk; Web: www.bspp.org.uk. The British Society for Plant Pathology supports the professional interests of plant pathologists worldwide. We publish articles in the high-quality journals: *Molecular Plant Pathology* and *Plant Pathology* (no page charges, except color). Members can apply for travel awards, short-term visiting fellowships, summer student funds, and conference support.

**Burbard Manufacturing Co. Ltd., UK**
Unit 7, Woodcock Hill Industrial Estate, Rickmansworth, Hertfordshire WD3 1PJ, United Kingdom; Phone: +44 1923 773134; Fax: +44 1923 774790; E-mail: sales@burkard.co.uk; Web: www.burkard.co.uk. Burkard Manufacturing Co. Ltd., UK, will display an apparatus for plant pathology together with new instruments for field and laboratory applications utilizing microriter wells for immunological evaluation. Apparatus for sampling from ground and plant foliage will be on view. Details of our complete range will be available and our representative will answer any enquiries during the meeting.

**CABI**
Nosworthy Way, Wallingford, Oxfordshire OX10 8DE, United Kingdom; Phone +44 (0) 1491 832111; Fax: +44 (0) 1491 833508; Web: www.cabi.org. CABI is a leading not-for-profit publisher with 100 years of experience in scientific information provision. CABI is committed to providing high-value scholarly databases, compendia, and books to meet the needs of the scientific community, including the world-renowned CABI Abstracts database.

**Biotech Chambers**
Suite 116, 20655 S. Western Avenue, Torrance, CA 90501; Phone: +1.310.618.9990; Fax: +1.310.618.9996; Web: www.bigc.com.

**CAB International**
Nosworthy Way, Wallingford, Oxfordshire OX10 8DE, United Kingdom; Phone +44 (0) 1491 832111; Fax: +44 (0) 1491 833508; Web: www.cabi.org. CABI is a leading not-for-profit publisher with 100 years of experience in scientific information provision. CABI is committed to providing high-value scholarly databases, compendia, and books to meet the needs of the scientific community, including the world-renowned CABI Abstracts database.

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**Campbell Scientific**
815 West 1800 North, Logan, UT 84321; Phone: +1.435.753.2342; Fax: +1.435.750.9540; Web: www.campbellsci.com.

**Conviron**
590 Berry Street, Winnipeg, MB R3H 0R9, Canada; Phone: +1.204.786.6451; Fax: +1.204.786.7736; E-mail: info@conviron.com; Web: www.conviron.com. Conviron is a global supplier of controlled environment systems for plant science research. We offer an extensive product portfolio of single and multi-tier chambers and rooms as well as research greenhouses, much of which is customized to a client’s specific requirements. To help ensure project success, we also offer specialized services from early-stage engineering and design through installation, project commissioning, and on-going maintenance and support.

**Dow AgroSciences LLC**
9330 Zionsville Road, Indianapolis, IN 46268-1054; Phone: +1.317.337.1000; Web: www.dowagro.com. Dow AgroSciences LLC, based in Indianapolis, IN, is a top-tier agricultural company that combines the power of science and technology with the “human element” to constantly improve what is essential to human progress. Dow AgroSciences provides innovative technologies for crop protection, pest and vegetation management, seeds, traits, and agricultural biotechnology to serve the world’s growing population.

**DuPont Crop Protection**
P.O. Box 30, Newark, DE 19714; Phone: +1.302.366.5704; Web: www2.dupont.com/Agriculture/en_US. DuPont’s mission in agriculture is to deliver global nutrition through higher, better-quality crop yields and healthier foods, while developing solutions to help meet the world’s energy needs. To help meet these goals, DuPont Crop Protection continues to develop and bring to the market new fungicides, such as penthiopyrad, proquinazid, and picoxystrobin.

**EnviroLogix Inc.**
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18 Schumanstr., Wuerselen 52416, Germany; Phone: +49 2405 4126-12; Fax: +49 2405 4126-26; Web: www.lemnatec.com. LemnaTec’s team of scientists develops hard- and software solutions for plant phenomics, high-throughput and high-content screening of plants, seedlings, insects, and other organisms and for the automated evaluation of bio tests in ecotoxicology. Digital images are primarily taken by the Scanneralyzer systems PL, HTS, and 3D, all set up in a modular design. Using advanced LemnaTec image-processing algorithms, every visible parameter (e.g., color, shape, size, and architecture) is subsequently measured and correlated with experimental records (e.g., genetic data). Our aim is to visualize and analyze the biology beyond human vision.

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**Natural Industries**
6223 Theall Road, Houston, TX 77066; Phone: +1.281.580.1643; Fax: +1.281.580.4163; Web: www.naturalindustries.com. Natural Industries manufactures beneficial microorganisms for the agriculture, horticulture, and retail markets. The flagship product Actinovate was registered in 2004 with the EPA for control of root diseases such as *Pythium*, *Phytophthora*, and others. Actinovate is also labeled for foliar use against diseases such as powdery mildew, *Botrytis*, and aerial *Sclerotinia*.

**Percival Scientific, Inc.**
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**Springer**
233 Spring Street, New York, NY 10013; Phone: +1.212.460.1500 or 1.800.777.4643; Fax: +1.212.460.1575; E-mail: service-ny@springer.com; Web: www.springer.com. Springer is a major publisher of books and journals in life sciences. Please stop by our booth to order books at a special conference discount and take a closer look at sample issues of journals. Staff will be available to answer any questions about publishing with Springer.

See what APS is doing for you! Visit the Public Policy Board’s booth to learn about the board’s latest initiatives and how you can get engaged. OPRO will be showcasing materials available to share plant pathology with the public, including new banners and posters. Stop by the new APS Foundation booth, featuring a new brochure and another fantastic raffle. Visit the APS Bookstore to view all the titles from APS PRESS and get your meeting t-shirt!
Pacific Northwest Barberry Working Group Meeting Held in Spokane, WA

The first meeting of the Pacific Northwest Barberry Working Group was held in Spokane, WA, February 9–10, 2011. The meeting was hosted by the Washington Grain Alliance and Tim Murray, Xianming Chen, and Diana Roberts from the Washington State University (WSU) Department of Plant Pathology, USDA ARS, and WSU Extension, respectively. The working group is composed of representatives from Washington, Idaho, Oregon, western Montana, USDA APHIS, and USDA ARS. The working group was established to address common barberry in relation to outbreaks of stem rust of wheat and barley in the region and the development of potentially damaging new races of the stem rust fungus. Common barberry was not eradicated or has reestablished since the Federal Barberry Eradication Program ended in 1981 and is the primary source of stem rust infections in the region. Activities of the working group include educating the wheat and barley industry to recognize stem rust and barberry and report it to appropriate local research and extension personnel so pathogen races can be monitored. The group is also developing recommendations for eradication of barberry using currently available herbicides.

Robert Park (Australia), Steve Miller, Diana Roberts, Mary Palmer-Sullivan, Juliet Marshall, Yue Jin, Ken Wong (Canada), Chris Mundt, Tim Murray, Prakash Hebbar (front), Stephen Vansleet, Beth Eiring, Larry Skillestad, and Xianming Chen.

OIP News & Views

Growing Global Awareness One Bid at a Time!

Do you have earrings you brought back from India? Or a hand-made scarf from Africa? What about chocolate from Switzerland? Donations should reflect your culture or a culture you have visited this year. Visit APSnet (www.apsnet.org/members/outreach/oip/Pages/SilentAuction.aspx) for information on how to donate items. This year, you must bring your item to Hawaii or mail it ahead of time to our contact in Honolulu (details available on the Silent Auction website).

Never participated and ready to join the excitement? Volunteer this year! Meet members, collect items, and give back to a good cause! Contact OIP Silent Auction Chair Annemiek Schilder (schilder@msu.edu) or APS staff member Amanda Aranowski (aranowski@scisoc.org) with questions.

Capture the Science and Art of Plant Diseases

In 2011, the APS Graduate Student Committee would like you to submit your plant disease-inspired art (any medium) for the Art in Phytopathology contest. This is your chance to submit the beautiful works of nature you’ve seen under your microscope slide, in your lab, or out in the field! All APS members are encouraged to submit their artwork, especially artwork from our graduate students. Categories to be judged include microscopy, whole plant/nature, digitally altered, wacky/humor, arts and crafts, and best in show. In 2010, entries and winners for the contest featured digitally altered photographs, a necklace made of mushrooms, ring nematode art, and more. Awards will be presented to the top entries at the 2011 APS-IPPC Joint Meeting in Honolulu, HI. View the full competition description, as well as category and award details online at www.apsnet.org/members/apsleadership/comm/Pages/ArtinPhytopathology.aspx. Contest entries must be submitted by July 1, 2011, to phytopathart@gmail.com.

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Edited by Thomas Wolpert, Tomonori Shiraishi, Alan Collmer, Kazuya Akimitsu, and Jane Glazebrook

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The Society of Nematologists 50th Anniversary Meeting

The Society of Nematologists (SON) 50th Anniversary Meeting will be returning to where it all started, Corvallis, OR, site of the first meeting, for a celebration of our science and our society. The meeting will start on Sunday, July 17, 2011, and continue through July 20. We will be welcomed by N. A. Cobb to a meeting that will review the history of nematology, present the latest research in technical sessions, and challenge members for the future. A series of special sessions, including workshops on nematology education and the identification of dorylaims, and a wide variety of symposia are being planned. Symposia topics will include the history and future of nematology management; biological control; nematode-bacterial symbioses; insect-pathogenic nematodes as model systems in ecology, stress physiology, evolutionary biology, and as biological control agents in sustainable agriculture; site-specific nematode management; second-generation nematode genomics; and freshwater and marine nematodes. Contributed paper session topics will include host-parasite interactions, entomopathogenic nematodes, plant resistance to nematodes, chemical management, cultural management, ecology/evolution/behavior, biological control, and nematode taxonomy and systematics.

We will also be creating the SON Nematology Genealogy Project that will trace and document nematology lineages (don’t worry, no DNA will be required). Come prepared with your own, your colleagues’, or retired major professor’s nematological lineage to add to what will surely become a classic must-have database.

The meeting will be held in the Conference Center on the Oregon State University campus in Corvallis, OR. Corvallis is served by the Portland International Airport (PDX) and the Eugene Regional Airport (EUG). Visit the meeting website for abstract submission and registration details at www.son50.org or contact Jim LaMondia, program chair, at +1.860.683.4982 or James.LaMondia@ct.gov.

Pink Rot of Potato Webcast Published in Focus on Potato

Pink Rot of Potato, by Jeff Miller of Miller Research, is the latest presentation topic in the Plant Management Network’s (PMN’s) Focus on Potato resource used by applied researchers, consultants, growers, and other practitioners in the potato industry.

This presentation is meant to help users in North American potato production systems understand the pink rot disease cycle on potato. It illustrates the various symptoms of pink rot, as well as focuses on the in-season and postharvest management of this economically important disease. This presentation can be viewed at www.plantmanagementnetwork.org/edcenter/seminars/potato/PinkRot.

Twelve other presentations, many covering specific potato diseases, can be viewed from the Focus on Potato homepage. These include potato-specific topics such as early blight, corky ringspot, black dot root rot, and others. View them all at www.plantmanagementnetwork.org/fop.

Focus on Potato is a publication of PMN (www.plantmanagementnetwork.org), a nonprofit online publisher whose mission is to enhance the health, management, and production of agricultural and horticultural crops. PMN achieves this mission through its applied, science-based resources. PMN is jointly managed by APS, the American Society of Agronomy, and the Crop Science Society of America.

Stay aware of PMN’s latest webcasts, research articles, and other content by subscribing to the monthly PMN Update e-newsletter at www.plantmanagementnetwork.org/update/default.cfm.

Two New Industry Partners Join PMN

The Plant Management Network (PMN) welcomes DuPont and SFP as its two latest industry partners.

DuPont (www.plantmanagementnetwork.org/partners/profile/Dupont.asp), a science-based products and services company founded in 1802, puts science to work by creating sustainable solutions essential to a better, safer, healthier life for people everywhere. Operating in more than 90 countries, DuPont offers a wide range of innovative products and services for markets, including agriculture and food.

SFP (www.plantmanagementnetwork.org/partners/profile/SFP.asp) sets out to help growers with one simple goal in mind: give plants the nutrients they need so they have the opportunity to increase yields and return on investment for the producer. At the heart of SFP’s efforts is putting revolutionary fertilizer efficiency technologies to work in the field, boosting yields across the globe and helping producers get more from their crops and their dollar.

SFP, DuPont, and nearly 80 other organizations are supporters of PMN’s nonprofit publishing mission: to enhance the health, management, and production of agricultural and horticultural crops. PMN achieves this mission through the publication of journals, webcasts, pest control efficacy trials, and other information for researchers and practitioners in the field. See all of PMN’s supporting partners at www.plantmanagementnetwork.org/partners/profile.

To learn how your company, university, or nonprofit organization can support PMN’s mission and gain from the benefits of partnership, visit www.plantmanagementnetwork.org/partners.
Now’s the Time to Volunteer with APS

Nothing happens at APS without the ideas, energy, and commitment from APS members. It’s a new year; the society is facing new challenges and starting new initiatives that need your help. Whether you are new to the society, haven’t served on a committee before, or it has been a long time since you have served on a committee—now is the time to volunteer. We have numerous openings to have your expertise benefit plant pathology and APS. You can volunteer to be on a number of standing and ad hoc committees as well as boards and offices. Let us know what your passion is and we will do our best to find the best fit so you will have the best volunteer experience!

Make Things Happen, Engage in an APS Committee
APS committee members tackle important issues relating to their passion. We have committees that cover the breadth of the science from diagnostics to genomics to modeling. Help keep members informed on the latest scientific and public policy developments. With several committees to choose from, it’s easy to become involved in APS and all APS members are welcome to participate. It is also a great way to meet others with similar interests.

What Level of Commitment Is Necessary?
Committee meetings, usually held at the APS Annual Meeting, but can be involved in discussions and projects throughout the year. The nature and extent of the activities of each committee depends on its mission and current priorities as well as the imagination, enthusiasm, and dedication of its members. As an active committee member, you can make a difference.

What Are APS Committees Currently Working On?
Here are some examples of a few of the activities that are currently in progress in a few APS committees:

• Teaching: Developing high-impact videos on specific topics within plant pathology
• Extension: Developing criteria for extension publication awards
• Diversity and Equality/Graduate Students/Early Career Professionals: Developing workshops and symposia focused on building professionalism
• Chemical Control: Examining the format and reporting for fungicide/nematicide tests
• Epidemiology: Developing workshops/webinars/online mini-courses related to statistical analysis of plant-pathology-related data
• Mycotoxicology: Developing an APS PRESS book on mycotoxins

How Do I Join an APS Committee?
Go to the website, www.apsnet.org/members/apsleadership/comm, and contact the chair of the committee that interests you and volunteer! Indicate your interest in serving on a committee in an e-mail to the committee chair by July 20, 2011, and also tell them if you will be at the joint meeting in Hawaii this year. Attend the committee meeting in which you are interested on Saturday, August 20, and Sunday, August 21. Locations and times will be listed on the meeting website.

Still not sure which APS committee is right for you? Go to the committee meeting at the annual meeting and see for yourself what your fellow plant pathologists are talking about. These are open meetings. Check them out and learn what they are working on, where the science is going, and what makes them tick. You will be glad you did!

Your expertise and enthusiasm are needed. Be part of the most active, talented, and engaged group of member leaders—join an APS committee this year!

### IMPORTANT APS DATES TO REMEMBER

**June 2011**
- 20 Applications due for the Public Policy Board Early Career Internship
- 29 Regular registration deadline for the 2011 APS-IPPC Joint Meeting

**July 2011**
- 1 2011 Art in Phytopathology submissions due
- 4 Book your room for the 2011 APS-IPPC Joint Meeting by this date to guarantee convention rates

**August 2011**
- 1 Seventh Annual Silent Auction items sent to Hawaii by this date

People

#### Student Degrees/Awards

**Leah Granke**

Leah Granke received her Ph.D. degree in plant pathology in May 2010 from Michigan State University (MSU) under the direction of Mary Hausbeck. Her dissertation is entitled, “Effects of environmental conditions on Phytophthora capsici dispersal and disease development.” She is currently working as a visiting research associate at MSU.

**Andika Gunadi**

Andika Gunadi, an M.S. student in plant pathology at The Ohio State University (OSU), was awarded a $5,000 graduate scholarship from the Ohio Soybean Council Foundation (OSCF) for the 2011–2012 academic year. Gunadi, whose advisor is Anne E. Dorrance, earned a B.S. degree in biochemistry from OSU. He entered the graduate program in 2010 and is working on the project “Linkage analysis and sequence characterization of Rps8 and Rps3 resistance genes in soybean chromosome 13.” OSCF scholarships are awarded competitively based on merit to students enrolled at Ohio universities engaged in soybean research. Previous scholarship awardees from Dorrance’s program include Hehe Wang (2010–2011) and Margaret L. Ellis (2009–2010). Dorrance is based at OSU’s Ohio Agricultural Research and Development Center (OARDC) in Wooster.

**Hongyan Sheng**

Hongyan Sheng completed the requirements for a Ph.D. degree in plant pathology from Washington State University (WSU). Sheng’s Ph.D. research was supervised by Tim Murray, and her supervisory committee included Xianming Chen, Scot Hulbert, Stephen Jones, and Tobin Peever. Her Ph.D. dissertation’s focus was on the identification...
and mapping of resistance genes for eyespot of wheat, caused by Oculimacula yallundae and O. acuformis, in Aegilops longissima. She identified resistant lines from A. longissima accessions and wheat-A. longissima substitution and translocation lines, and also mapped resistance quantitative trait loci (QTL) in a recombinant inbred population derived from a resistant and susceptible lines of A. longissima. This research provides the first evidence of eyespot resistance in A. longissima and the first linkage map with wheat SSR markers in the A. longissima genome. The markers linked to the QTL will facilitate the transfer of the resistance genes to cultivated wheat through marker-assisted selection and broaden the genetic diversity of eyespot resistance. In 2009, Sheng received the WSU Graduate School travel grant and the APS Pacific Division Travel Award. Sheng grew up in Changchun, China. She obtained a B.S. degree in agrochemistry from Jilin Agricultural University in 1987 and a master’s degree in plant pathology from Auburn University in Alabama in 1996. She is going to continue doing research in Murray’s lab as a post-doctoral research associate.

Jane Stewart completed the requirements for a Ph.D. degree in plant pathology from Washington State University (WSU), under the supervision of Tobin Peever; her supervisory committee included Lori Carris, Scot Hulbert, and Eric Roalson. Her work was on the evolutionary biology of the citrus Alternaria brown spot pathogen (Alternaria alternata). She examined the mating system of this pathogen and how it relates to the evolution and virulence of this pathogen. Stewart received several awards, including an Achievement Rewards for College Scientists (ARCS) Scholarship (2006–2009), The American Phytopathological Society Student Travel Award (2009), Second International Ascochyta Workshop Travel Award (2009), first place at the Second International Ascochyta Workshop student poster competition, and first place at the Evolutionary Biologists of the Pacific Northwest (PNW) Student Poster Competition (2010). Stewart grew up in Portland, OR. She received her B.S. degree in biology from the University of Oregon in 1999. In 2003, she earned her M.S. degree in forestry with an emphasis on forest pathology at the University of Vermont (UV), School of Natural Resources. Her thesis work focused on the movement of a tree pathogen by forest insects. Before starting her Ph.D. degree at WSU, she worked as a technician for the UV Entomology Lab, focusing on IPM management for forest insect pests. She then traveled back to the PNW to work for the USDA Forest Service. Her work focused on the genetics of nursery and forest tree diseases.

Ohio State University (OSU) plant pathology students Jiye Cheng, Chan Ho Park, Alissa Kriss, and Amber Hoffstetter were inducted into Gamma Sigma Delta, an honorary society of agriculture, at the Ohio Chapter’s Annual Initiation and Awards Program in Columbus on April 5. Cheng, a Ph.D. candidate studying with Terry Graham, is working in the area of chemomatabolomics in soybean, including research on metabolome-wide elicitors, effectors, and pharmacological agents. Park is a Ph.D. candidate with Guo-Liang Wang. His research focuses on mechanisms of plant-pathogen interactions, using rice as a model system, and studies on host response to two major rice pathogens, Xanthomonas oryzae pv. oryzae and Magnaporthe oryzae. Kriss is a Ph.D. candidate studying with Larry Madden and Pierce Paul at the Ohio Agricultural Research and Development Center in Wooster. Kriss’s research centers on Fusarium head blight (FHB) of wheat, including epidemiological studies and annual variation in FHB disease intensity in relation to long- (climate) and short-term (weather) variables. In addition to enhancing our understanding of this economically important disease, the work has direct applications for the FHB disease forecasting system used by wheat growers across the United States (www.wheatscab.psu.edu). Hoffstetter is an undergraduate plant health management honors student. Her honors thesis explored the effectiveness of biological fungicides on Botrytis gray mold and other fungal pathogens on geraniums. Thomas K. Mitchell and Dennis J. Lewandowski are Hoffstetter’s advisors.

**People continued from page 105**

**Jane Stewart**

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**Presentation**

Weidong Chen, research plant pathologist, USDA ARS, and adjunct professor of plant pathology at Washington State University, attended the Pakistan-U.S. Science and Technology Conference in Dubai, United Arab Emirates, March 21–24, 2011. Chen made an invited presentation entitled “Biotechnological approaches to the control of Ascochyta blight of chickpea.” The conference was organized by the National Academies and financially sponsored by the Department of State and USAID. In addition to cooperating scientists from Pakistan and the United States working on projects related to animal and human health and plant sciences, participants also included officials from the Executive Office of the President, the State Department, USAID, U.S. Embassy at Islamabad, and government officials of Pakistan.

**If you can pronounce Phytophthora [fayh-tof-ther-uh], you’re probably a plant pathologist.**

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**Phytopathology**

**June 2011, Volume 101, Number 6**

- Perceptions of Risk, Risk Aversion, and Barriers to Adoption of Decision Support Systems and Integrated Pest Management: An Introduction.
- Decision Aids for Multiple Decision Disease Management as Affected by Weather Input Errors.
- Spatial Sampling to Detect an Invasive Pathogen Outside of an Eradication Zone.
- Characterization of the RscC Sensor Kinase from *Erwinia amylovora* and Other Enterobacteriaceae.
- Root Treatment with Rhizobacteria Antagonistic to Phytophthora Blight Affects Anthracnose Occurrence, Ripening, and Yield of Pepper Fruit in the Plastic House and Field.
- Biscontrol Activity and Primed Systemic Resistance by Compost Water Extracts Against Anthracnoses of Pepper and Cucumber.
- C-Terminal Region of Plant Ferredoxin-Like Protein Is Required to Enhance Resistance to Bacterial Disease in *Arabidopsis thaliana*.
- Multiple Loci Condition Seed Transmission of *Soюbean mosaic virus* (SMV) and SMV-Induced Seed Coat Mottling in Soybean.
- Genetic Analysis of the Resistance to Eight Anthracnose Races in the Common Bean Differrential Cultivar Kaboon.
- Morphological and Molecular Analysis of *Fusarium lateritium*, the Cause of Gray Necrosis of Hazelnut Fruit in Italy.
- Trichothecene Profiling and Population Genetic Analysis of *Gibberella zeae* from Barley in North Dakota and Minnesota.

**Plant Disease**

**June 2011, Volume 95, Number 6**

- Real-Time PCR Detection and Discrimination of the Southern and Common Corn Rust Pathogens *Puccinia polystromaticola* and *Puccinia sorghi*.
- A Novel *Fusarium Species* Causes a Canker Disease of the Critically Endangered Conifer, *Torreya taxifolia*.
- Orange Rust Effects on Leaf Photosynthesis and Related Characteristics of Sugarcane.
- Presence of *Fusarium spp.*, in Air and Soil Associated with Sorghum Fields.
- *Vitis californica* and *Vitis californica x Vitis vinifera* Hybrids are Hosts for *Grapevine leaf-roll-associated virus-2* and *3* and *Grapevine virus A B*.
- Postharvest Fruit Rot of Apple in Greece: Pathogen Incidence and Relationships Between Fruit Quality Parameters, Cultivar Susceptibility, and Patulin Production.
- Detection and Quantification of *Pleospora tabacina* Using a Real-Time Polymerase Chain Reaction Assay.
- Characterization of *Botrytis cinerea* Isolates Present in Thompson Seedless Table Grapes in the Central Valley of Chile.
- Competitive Parasitic Fitness of *Mehoxena*-Sensitive and -Resistant Isolates of *Phytophthora erythropodia* under Fungicide Selection Pressure.
- Efficacy of a Nonpathogenic *Achlya conotheca* Strain as a Biocontrol Seed Treatment for Bacterial Fruit Blotch of Cucurbits.
- Host Range and Phyloge netic Relationships of *Allium cepa* from Cruciferous Hosts in Western Australia, with Special Reference to *Brassica juncea*.
- Peach Rusty Spot Is Caused by the Apple Powdery Mildew Fungus, *Podosphaera leucotricha*.
- Soil Application of SAR Inducers Inducediaporici, Thiamethoxam, and Acibenzolar-S-Methyl for Citrus Canker Control in Young Grapefruit Trees.
- Feasibility of Delaying Removal of Row Covers to Suppress Bacterial Wilt of *Musselmon cinnamomi* (Cuscomel micus). Sources of *Iris yellow spot virus* in New York.
- Experimental Verification of Seed Transmission of *Zucchini yellow mosaic virus*.
- Widespread Occurrence and Low Genetic Diversity of *Colombian daunoma virus* in *Brugmansia* Suggest an Anthropogenic Role in Virus Selection and Spread.
- Sources of Resistance to Stem Rust Race Ug99 in Spring Wheat Germplasm.
- First Report of Basal Leaf Blight of *Kikuyugrass* Caused by *Fusarium oxysporum*.
- First Report of Aster Yellow (16S1-B) Associated with *Potato* in Alaska.
- *Fusarium Crown and Root Rot of Tarragon in California Caused by Fusarium oxysporum*.
- First Report of Blueberry Leaf Rust Caused by *Thekopsora minima* on *Vaccinium corymbosum* in Michigan.
- Bud and Root Rot of Windmill Palm (*Trachycarpus fortunei*) Caused by *Sclerotinia sclerotiorum*.
- First Report of Blueberry Leaf Blight and Fruit Rot on *Schiardia chinensis* Caused by *Botrytis cinerea* in China.
- First Report of *Spencermartinsia sitchensis*, *Neofusicoccum australis*, and *N. parvum* Causing Branch Canker of *Citrus* in California.
- First Report of Fruit Rot of Olives Caused by *Byssochlamys dothidea* in Tunisia.
- First Report of Leaf Spot Disease on *Dianthus dayacarpus* Caused by *Phoma dianthi* in China.
- First Report of Brown Rot of Apple Caused by *Monilinia fructicola* in Germany.
- First Report of Leaf Rust of Blueberry Caused by *Thekopsora minima* in Mexico.
- *Brennera salicis* Associated with Watermark Disease in *Salix alba* in Italy.
- First Report of a 16S rRNA Subgroup Phytoplasma Associated with *Wisteria cincinnatensis* and *Ficus* in Southern California.
- First Report of *Sclerotinia* on Blueberry Caused by *Sclerotinia sclerotiorum* in Argentina.
- First Report of *Ghanna* of *Xanthomonas citri pv. mangeliferae* Causing Mango Bacterial Canker on *Mangifera indica*.
- First Report of *Fusarium eucaulis* Causing *Fusarium* Head Blight on Barley in China.
- First Molecular Evidence of *Citrus parisi* and *Citrus viroid III* from Citrus spp. in New Zealand.
- First Report of *Paspaloma Leaf Spot Caused by Paspalum bongoiniicola* on *Bongoiniica* in Mexico.
- Detection of *Borrellelonchus xyliphilus*, Causal Agent of Pine Wilt Disease on *Pinus pinaster* in Northwestern Spain.

**MPMI**

**June 2011, Volume 24, Number 6**

- *HrpG* and *HrpX* Play Global Roles in Coordinating Different Virulence Traits of *Xanthomonas axonopodis* pv. *citri*.
- Activation of a *Lotus japonicus* Subtilase Gene During Arbuscular Mycorrhiza Is Dependent on the Common Symbiotic Genes and Two cis-ACTive Promoter Regions.
- Use of a Secretion Trap Screen in Pepper Following *Phytophthora capsici* Infection Reveals Novel Functions of Secreted Plant Proteins in Modulating Cell Death.
- The 2b Silencing Suppressor of a Mild Strain of *Cucumber mosaic virus* Alone Is Sufficient for Synergistic Interaction with *Tobacco mosaic virus* and Induction of Severe Leaf Malformation in 2b-Transgenic Tobacco Plants.
- Quantitative and Temporal Definition of the *Mla* Transcriptional Regulator During *Barley-Powder Mildew Interactions.*
- Salicylic Acid-Dependent Restriction of Tomato ringspot virus Spread in Tobacco Is Accompanied by a Hypersensitive Response, Local RNA Silencing, and Moderate Systemic Resistance.
- Loss of eAMP-Dependent Protein Kinase A Affects Multiple Traits Important for Root Pathogenesis by *Fusarium oxysporum*.
- Auxin Signaling and Transport Promote Susceptibility to the Root-Infecting Fungal Pathogen *Fusarium oxysporum* in *Arabidopsis*.

**Plant Management Network**

[www.plantmanagementnetwork.org](http://www.plantmanagementnetwork.org)

**Plant Health Progress**

- A New Pathogenic Race of *Tilletia caries* Possessing the Broadest Virulence Spectrum of Known Races.
- *EnviroLogics*’ New Family of QualiPlate Kits for Curcubit Viruses: *SgMV*, *CGMMV* & *MNV*.
- Japanese Officials Approve Maximum Residue Levels for *Radiant* SC and *Delegare* WG Insecticides.
- BIOREBA Introduces a New AgriStrip Assay for Fast Detection of *Tobacco spotted wilt virus* (TSWV).
- New Seed Corn Technology Comes With Risks, Entomologist Says.
- Overture Insecticide Registered for Use in California.
- BAY 50 WDG Insecticide Now Labeled for Special Local Needs Use in Florida Non-Bearing Citrus.
- *Soюbean* Germplasm Evaluations Give U.S. Head Start Against *Soюbean Rust* Pathogen.
- Dow AgroSciences Launches Website to Help Fight Insecticide Resistance.
- BASF and Monsanto Take *Dicamba* Tolerant Cropping to the Next Level.

**Phytopathology News**

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## Calendar of Events

### APS Sponsored Events

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<thead>
<tr>
<th>Month</th>
<th>Event</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td><strong>June 2011</strong></td>
<td>15-17 — APS North Central Division Meeting</td>
<td>Omaha, NE. <a href="http://www.apsnet.org/members/divisions/nc">www.apsnet.org/members/divisions/nc</a></td>
</tr>
<tr>
<td><strong>August 2011</strong></td>
<td>6-10 — APS-IPPC Joint Meeting</td>
<td>Honolulu, HI. <a href="http://www.apsnet.org/meet">www.apsnet.org/meet</a></td>
</tr>
<tr>
<td><strong>October 2011</strong></td>
<td>12-14 — APS Northeastern Division Meeting</td>
<td>New Brunswick, NJ. <a href="http://www.apsnet.org/members/divisions/pac">www.apsnet.org/members/divisions/pac</a></td>
</tr>
</tbody>
</table>

### Upcoming APS Annual Meetings

- **August 4-8, 2012** — Providence, RI.
- **August 10-14, 2013** — Austin, TX.
- **August 9-13, 2014** — Minneapolis, MN.

### Other Upcoming Events

<table>
<thead>
<tr>
<th>Month</th>
<th>Event</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7-9 — Climate Change and the Implications for Plant Science Symposium</td>
<td>University of Guelph, Canada. <a href="http://www.plantscience.open.uoguelph.ca">www.plantscience.open.uoguelph.ca</a></td>
</tr>
<tr>
<td><strong>July 2011</strong></td>
<td>12-14 — 43rd Annual Meeting of the American Peanut Research and Education Society</td>
<td>San Antonio, TX. <a href="mailto:ta-baughman@tamu.edu">ta-baughman@tamu.edu</a></td>
</tr>
<tr>
<td><strong>September 2011</strong></td>
<td>5-7 — Resistance 2011</td>
<td>Rothamsted Research, United Kingdom. <a href="mailto:bart.fraaije@bbsrc.ac.uk">bart.fraaije@bbsrc.ac.uk</a></td>
</tr>
<tr>
<td><strong>October 2011</strong></td>
<td>3-4 — The 2011 International Spinach Conference</td>
<td>Amsterdam, the Netherlands. <a href="http://spinach.uark.edu">http://spinach.uark.edu</a></td>
</tr>
<tr>
<td><strong>November 2011</strong></td>
<td>29-Dec 1 — Third International Phytophthora capsici Conference</td>
<td>Duck Key, FL. <a href="http://conferences.dce.ufl.edu/pcap">http://conferences.dce.ufl.edu/pcap</a></td>
</tr>
<tr>
<td><strong>April 2012</strong></td>
<td>22-26 — Ascocrytya 2012: The 3rd International Ascocrytya Workshop</td>
<td>Córdoba, Spain. <a href="http://www.ascocryta.org">www.ascocryta.org</a></td>
</tr>
<tr>
<td><strong>July 2012</strong></td>
<td>1-5 — Plant and Canopy Architecture Impact on Disease Epidemiology and Pest Development</td>
<td>Rennes, France. <a href="https://colloque.inra.fr/epidemiology_canopy_architecture">https://colloque.inra.fr/epidemiology_canopy_architecture</a></td>
</tr>
<tr>
<td><strong>August 2013</strong></td>
<td>25-30 — 10th International Congress of Plant Pathology</td>
<td>Beijing, China. <a href="http://www.icppbj2013.org">www.icppbj2013.org</a></td>
</tr>
</tbody>
</table>

For the most current listing go to [www.apsnet.org/meetings/meetingcalendar](http://www.apsnet.org/meetings/meetingcalendar).