Renowned Scientist Temple Grandin to Speak at Annual Meeting

We Need Different Kinds of Minds to Solve Problems

Temple Grandin, bestselling author, noted expert on animal behavior, and advocate for autistic populations, will share her views on effectively using the three ways people think—photo realistic visual thinking, where pictures form thoughts; pattern thinking; and word thinking—in problem solving and the importance of having teams of individuals with different abilities and types of minds working together to find solutions.

Grandin earned a degree in psychology from Franklin Pierce College, a master’s degree in animal science from Arizona State University, and a doctoral degree in animal science from the University of Illinois at Urbana-Champaign. She currently works as a professor of animal science at Colorado State University.

Grandin has designed humane handling systems for half of the cattle-processing facilities in the United States and consults with the meat industry to develop animal welfare guidelines. As a high-functioning person with autism, she has been able to make sense of and articulate her unusual life experiences with rare depth. She also has an extreme sensitivity to detail and environmental change, which she credits for her insight into the minds of cattle and domesticated animals.

She has been recognized by the academic community and the general public for her work. In 2010, TIME Magazine listed Grandin as one of its most important people of the year and HBO released an Emmy-Award-winning film on her life. In 2009, she was named a fellow of the American Society of Agricultural and Biological Engineers. She is also the recipient of several honorary degrees and has been featured on a range of television and radio programs.

Make plans to attend the APS 2016 Annual Meeting to participate in this plenary session as well as a wealth of sessions and networking opportunities. Registration is now open at www.apsnet.org/meetings/annual/pages/register.aspx.

2016 Election Opens in May!

Voting for the 2016 APS election opens next month! Profiles of the top two candidates for vice president and councilor-at-large will be published in the next issue of Phytopathology News. Members will receive an e-mail on May 3 with a link to the online 2016 APS Officer Election. Instructions for voting will be provided within the online ballot. Voting opens on May 3 and closes on May 31, 2016. (Members without an e-mail address on file will be mailed materials.)
A tutorial on packing diagnostic samples for the identification of diseases, insect and mite

A diagnostic key of tomato diseases based on physical symptoms and the location of

• A peer-reviewed disease images.
• Decision support tools, including diagnostic keys that help users identify diseases based
on turfgrass variety, temperature, and physical symptoms.
• General guidelines and steps for disease identification.
• Control strategies for the management of turfgrass diseases.
• A directory of state turf extension resources—for more information and to connect with
local university specialists.

Tomato MD is available for just $2.99 and features:
• An index of more than 35 common diseases, insects, and mites that affect tomato plants.
Once the disease or pest is isolated, users can learn more about causes and sources,
symptoms, management strategies, other plants that may serve as host to the pest, and
more useful information.
• A peer-reviewed photo gallery of insects and mites and the specific damage they cause.
• A diagnostic key of tomato diseases based on physical symptoms and the location of
infection, including the leaves, stem, fruit, or whole plant.
• A tutorial on packing diagnostic samples for the identification of diseases, insect and mite
pests, and other disorders.

Learn more and download the apps at www.apsnet.org/aphstore/shopapspress/pages/aspx.
New Edition of Corn Compendium Available!

The highly anticipated fourth edition of the *Compendium of Corn Diseases*, one of the all-time best-selling books from APS PRESS, is now available! With nearly 15 years since publication of the third edition, the *Compendium of Corn Diseases, Fourth Edition* is almost completely revised, offering the newest diagnostic and management information available from the world’s top corn pathologists.

The newest edition covers nearly 90 diseases and disorders of corn found in the field and in storage, including diseases caused by bacteria, fungi, nematodes, and parasitic seed plants; nutrient deficiencies and toxicities; air pollution, extreme weather, and other environmental factors; and herbicide injury.

The *Compendium of Corn Diseases, Fourth Edition* has the most practical, up-to-date, and comprehensive management information available in one book. It includes detailed descriptions and field-tested management recommendations for each disease and disorder, plus more than 300 high-quality color images to help users quickly identify them.

This latest edition also includes completely new sections on the use of fungicides for foliar disease management, combating storage molds, plus an appendix that helps users match common names of corn diseases with the names of their pathogens.

The *Compendium of Corn Diseases, Fourth Edition* is on sale through May 31 for $109 ($10 off the $119 cover price). APS members save an additional 10%. Bulk purchases are also possible, allowing you to save up to $30 per book. Visit [www.shopapspress.org](http://www.shopapspress.org) to order this and other new titles, all on sale through May 31, 2016.

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**APS Image Database Collection Now Includes Hop Images**

Images from the *Compendium of Hop Diseases and Pests* were recently added to the APS Image Database, allowing users to find and use photos of hop-specific diseases and pests, such as cone tip blight, hop flea-beetles, and dozens of others.

The APS Image Database is an invaluable resource for those giving PowerPoint presentations in the classroom, at extension talks, or industry meetings. With just one click of the button, these images transform into ready-made fact sheets full of peer-reviewed scientific information for students, growers, and other audiences.

Subscribe to the APS Image Database for just $49 yearly. Subscribers get unlimited access to high-quality images for educational use, 24/7 accessibility, and our easy-to-use search interface by subscribing today. Visit [www.apsnet.org/imageDB](http://www.apsnet.org/imageDB) to try this resource for free.

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

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2016 ANNUAL MEETING
Call for Idea Café Topics

Are you 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? Then the 2016 APS Annual Meeting Board wants you! Submit your Idea Café topic (one round table of 10 assigned to each topic) by contacting Kelly Ivors (kivors@calpoly.edu) or Peter Ojiambo (Peter_ojiambo@ncsu.edu) by April 20. Please note, selected submitters are also asked to serve as moderators at their Idea Café table.

APS Foundation

Aparna Petkar Receives the Raymond J. Tarleton Student Fellowship

The APS Foundation is pleased to announce Aparna Petkar as the 2016 recipient of the Raymond J. Tarleton Student Fellowship. Petkar is a native of India and is a doctoral student under the advisement of Pingheng Ji in the Department of Plant Pathology at the University of Georgia. Her research aims to understand epidemiological aspects of Fusarium oxysporum f. sp. niveum (FON), which is the causal agent of Fusarium wilt of watermelon. The project’s specific objectives are determining the effect of fungicides, azoxystrobin, thiophanate-methyl, and prothioconazole, on different asexual life stages of FON isolates; investigating race structure and genetic diversity of FON in the southeastern United States; and determining the infection courts in watermelon for FON leading to seed infestation. Her fungicide sensitivity research has identified that different asexual life stages of FON were differentially affected by the fungicides and the isolates were more sensitive to prothioconazole than thiophanate-methyl or azoxystrobin. With respect to race typing, she screened 50 isolates and found that the majority of isolates tested belonged to race 2 and race 3. Additionally, results from the infection court study indicated that watermelon tissues, including immature fruit, flowers, and peduncle, could be potential infection courts of FON leading to seed infestation.

Petkar will present some of her findings at the 2016 APS Annual Meeting in Tampa, FL. The funds from the award will be used for studying the genetic diversity and race structure of the pathogen using molecular techniques. The funds received will be allocated to genotyping FON by screening and optimizing SSR primer, sequence analysis, and fingerprinting FON isolates collected from the southeastern United States. Acquiring this data will be fundamental not only in understanding the population structure of this pathogen but will also answer questions about its evolution. Her academic goal is to continue research focused on developing more sustainable and durable plant disease management strategies so that we can support our food supply, regional populations of plants, such as forests, and maintain an inhabitable ecosystem.

Meeting

COMING IN JUNE
WSU Virus Detection Training Workshop

There will be an important Virus Detection Training Workshop on Monday, June 20, 2016, at the Washington State University (WSU) Research Farm. The workshop will cover field identification of PVY (strains O, N-Wi, and NTN), including visual identification of foliar symptoms on 40 major cultivars. There will also be samples of different tuber symptoms from PVY, PMTV, and TRV. In addition, we will discuss and demonstrate new diagnostic assays for viruses and soilborne vectors of some of the viruses. University and USDA experts at the Virus Detection Training Workshop will include Stewart Gray (USDA ARS/Cornell University), Mark Pavék (WSU), Jonathan Whitworth (USDA ARS), Amy Charkowski (University of Wisconsin-Madison), Alex Karasev (University of Idaho), and Nina Zidack (Montana State University). The workshop is part of a USDA NIFA Specialty Crops Initiative award entitled “Biological and economic impacts of emerging potato tuber necrotic viruses and the development of comprehensive and sustainable management practices.”

The recent standardization of seed certification programs across the United States includes the requirement for documentation of inspector training, but this training will also be beneficial to growers, people who rogue, and industry in general, so please sign up early. Additional workshops planned for the week include the WSU Commercial Seed Lot Evaluation (June 21) in Othello, the Oregon State University (OSU) Potato Field Day at the OSU Research and Extension Center (June 22), and the WSU Potato Field Day in Othello (June 23). Come and make a week of it!

To register for the event, please visit http://bit.ly/WSU-potatovirusworkshop. For more information about the workshop, please e-mail pbg-potatovirus@cornell.edu.
International Programs

LIBRARY ASSISTANCE PROGRAM

Sharing Books and Resources Around the World

APS is committed to promoting greater worldwide interaction among scientists and practitioners of plant pathology. Through the Library Assistance Program (LAP), the Office of International Programs (OIP) provides donated publications to libraries, universities, and other institutions that do not have access to or cannot afford these materials. In general, we send reference books, diagnostic compendia, and CDs, but not journal collections. If your university or institution could benefit from this program, or you wish to make a donation to the program, more information can be found at www.apsnet.org/members/outreach/oip/Pages/LibraryDonationProgram.aspx or by contacting Megan Kennelly (kennelly@ksu.edu).

Please note, LAP is different from the Books for the World award. Information about that program is available at www.apsnet.org/members/foundation/apply/Pages/BooksfortheWorldAward.aspx or by contacting Kennelly at the above e-mail.

Division News

SAVE THE DATE

Pacific Division Heads to Washington

Save the date to attend the APS Pacific Division Annual Meeting in La Conner, WA, June 28–30, 2016. This is a beautiful venue with lots of interesting agriculture and nature to enjoy in addition to a diverse scientific meeting agenda. Special sessions and symposia will include a graduate student professional development workshop, a symposium on the impact of climate change on plant disease, and a student presentation competition. Visit the APS Pacific Division meetings page at www.apsnet.org/members/divisions/pac/meetings for more information on registration and abstract submission deadlines. Hope to see you there!
THE GRANTSMANSHIP CHALLENGE
Building the Perfect Beast

Martin A. Draper, USDA-NIFA, mdraper@nifa.usda.gov

I have spent the last 10 years in Washington, DC, at what is now called the National Institute of Food and Agriculture (NIFA). My duties vary. I serve as a liaison to multistate committees that address collaborative approaches to research and extension on various topics (in case you didn’t realize that was what you were doing on those committees). I provide technical support in guiding budgetary decisions. I advise politically appointed officials (when asked). I manage capacity funds (Hatch, Smith-Lever, etc.). I work to find efficiencies in government processes (really…that’s not a joke). I speak as loudly as I can for the full spectrum of the land-grant portfolio, refusing to allow NIFA’s mission to reflect only research.

Perhaps the single effort that winds up taking the majority of my time is managing competitively awarded grant funds. Developing the concept; working in teams to design the request for applications (RFA); recruiting a respected and neutral panel manager; building a sufficiently diverse and technically representative peer-review panel; planning the panel; reading applications; assigning reviews (with the panel manager); monitoring reviewer’s progress; conducting the peer panel; moving the recommendations of the panel through the approval process; contacting the applicants who were recommended for award; preparing the recommendation to award; preparing the application for approval; reviewing the recommendation to award; monitoring progress on the planned work; reading reports; and on it goes…competitive programs don’t just happen. Yet sometimes I think the applicant sees a big chain to pull and money falls in their lap. Many of these programs are very competitive. Especially for young faculty, it is important to understand that good proposals get funded! Well-conceived and well-written proposals (applications) get funded! You can do yourself a favor or three. Here are my tips to the first-time grant writer and the grant writer who has not had the success they think they should have.

Mentoring—Everyone needs a mentor. Sometimes that is simply your accountability partner. Sometimes that mentor is formal. Other times it is an informal but understood relationship. Also, as you think about being mentored, think about mentoring. Start by being your own mentor. Mentor yourself with realism. There are things you can do for yourself that will put you at an advantage. Start by being honest with yourself. Consider the following items.

Talk to your national program leader/director for the competitive program you wish to apply to—You need to have a clear understanding of the program. An RFA is an imperfect document. It is often less informative than I wish it was, but a fully informative RFA gets long and unwieldy and is also criticized. The sweet spot of being concise is tricky. The people responsible for the programs can guide you as to how your idea fits and they may direct you to a related program where you have a better fit…but read the RFA before you call them. Don’t make it a cold call. Set up a time for a call so you are sure to get the time you need for the discussion.

Don’t compete against yourself—Pick a project and present it well. You should never submit two applications to the same program. That does not increase your chances of funding. It actually decreases your chances and makes you seem like you lack direction. Do only one application and do it exceptionally well.

Build effective teams—Many projects require varied expertise. Make sure you have that expertise represented. If you are concerned that adding appropriate expertise will dilute your budget to the point you can’t do the work, then rethink your scope. You may be trying to do too much in the time you have and with the personnel you are committing to the project. If the RFA says you should include stakeholders, include stakeholders!

Build on real issues; don’t create a problem that doesn’t exist—You should be able to justify what you intend to do. It should be based on real concerns and supported by commodities or other stakeholders who are connected to the science or the products that might result.

Allow plenty of time for team recruitment, writing, and edits—Don’t write it the night before it’s due! Maybe this is an old cliché, but too many proposals read like it really happens. A late night and a pot of coffee won’t make for a competitive proposal. A related concern is to make sure you put your sponsored program’s office on your side. Work with them early on. Let them know you will have an application coming. Allow them to be your ally. Don’t force them to work against the clock.

Spell check, grammar check—Doesn’t this seem intuitive? When Word underlines a misspelling, correct it. Let someone else read your proposal before submission. They can help tell you if your approach makes sense.

Submit early—Submitting your application to the granting agency the day before it is due is a good policy. That allows for unforeseen causes for rejection and gives time for corrections. My Grant.gov submission system gets slow as you near submission deadlines and as you approach 5:00 P.M. Eastern Time. I have had to decline applications from consideration because they are five minutes late. Don’t let that be you.

So, there’s my pitch. Do yourselves a favor. Be honest with yourself. Start early. Focus on relevant concerns. Talk to the granting agency. Build a coalition with your colleagues and key stakeholders. When you build the perfect beast, your personal grantsmanship success rate will go up! ■
People

Student Awards & Degrees

Bhanu Priya Donda recently completed requirements for a Ph.D. degree in plant pathology at Washington State University. Her committee consisted of Naidu Rayapati (chair) and Dennis Johnson (Department of Plant Pathology), Roy Navarre and George Vandemark (USDA ARS), and Siddarame Gowda (University of Florida). Donda’s thesis was entitled “Molecular biology and epidemiology of grapevine leafroll-associated viruses.” During her graduate program, Donda received the Walter J. Clore scholarship from the Washington Wine Industry Foundation, the 2015–2016 American Society for Enology and Viticulture scholarship, Student Travel Award to attend the American Society for Enology and Viticulture annual meeting, and the Raymond G. Grogan Student Travel Award to attend the APS Annual Meeting in 2015. Donda is going to move to central California to work with a crop diagnostics company.

The Louisiana Agricultural Consultants Association (LACA) awarded $2,000 scholarships and certificates of excellence to two Louisiana State University (LSU) AgCenter Plant Pathology and Crop Physiology students during the organization’s annual conference in February. The two students were Mary Helen Ferguson (top), a Ph.D. student who studies with Christopher Clark, (professor of plant pathology) and Alejandro Jimenez Madrid (bottom), an M.S. student who studies with Melanie Lewis Ivey (assistant professor of plant pathology). They were both recognized for their academic achievements and research performance in plant pathology.

Andrea Garfinkel, a Ph.D. student in the Department of Plant Pathology at Washington State University (WSU), recently received the Richard R. and Constance M. Albrecht Fellowship from the WSU Graduate School. This fellowship is open to all active doctoral graduate students in good standing who have successfully passed their preliminary examination and have at least a 3.5 graduate GPA. Candidates are nominated by the dean of their college and judged based on their peer-review publication record, the completion of successful grant proposals and awards, and their service to the institution and community. Garfinkel’s major professor is Gary Chastagner.

David Wheeler, Ph.D. student of the Department of Plant Pathology, Washington State University (WSU), recently received the Ann Chittenden Holland Master’s Thesis Award for Graduate Student Excellence from the WSU Graduate School. This award, $1,000, is open to all graduate students in good standing in science, technology, engineering, and mathematics (STEM) who have at least a 3.5 graduate GPA and have completed a WSU master’s thesis in the past year and currently are enrolled in a doctoral program at WSU. Candidates are nominated by the dean of their college and selected by a university selection committee. Wheeler completed his M.S. degree in 2015, and his thesis was entitled “Verticillium dahlia asymptomatically and differentially infects rotation crops of potato in the Columbia basin, Washington” under the supervision of Dennis Johnson. Johnson continues serving as Wheeler’s major professor for his Ph.D. program.

Award

Jenny Glass, extension coordinator running the Plant Diagnostic Lab of the College of Agriculture, Human, and Natural Resource Sciences (CAHNRS), Washington State University (WSU) at the Puyallup Research and Extension Center, has recently been selected to receive the 2016 WSU CAHNRS Administrative Professional Excellence Award. Glass has run the Plant Diagnostic Lab in Puyallup since 2000. In addition to the duties and responsibilities of running the lab, she has taken great efforts in many other extension/diagnosis-related activities.

Collaboration

Lili Huang, professor and associate dean of the College of Plant Protection, Northwest A&F University, Yangling, China, recently visited the Department of Plant Pathology, Washington State University (WSU). Her visit was supported by the China Scholarship Council and hosted by Xianming Chen, research plant pathologist of USDA ARS and adjunct professor of WSU. During her visit, she interacted with faculty, post-doctoral associates, and students of the department, visited facilities, and participated in stripe rust research. Her research is in the field of ecological plant pathology and focuses on epidemiology and management of wheat and apple diseases. She presented a seminar entitled “Control of Apple Valsa Canker,” covering her research progress in the etiology and genomics of the pathogen, epidemiology of the disease, and development and implementation of new management strategies.

Presentations

Sue Cohen, Center for Regulatory Research, LLC, presented a training course on “Macedonia Phytosanitary Regulations for Products of Plant Origin: Eastern Europe and Eurasia” September 6–19, 2015, for six USDA Cochran Fellows and one interpreter from Macedonia. The training course was hosted by the Stakman-Borlaug Center for Sustainable Plant Health and the Department of Plant Pathology, University of Minnesota.
People, continued from page 51

(UMN). James Braden, professor and head of the Department of Plant Pathology and codirector of the Stakman-Borlaug Center, welcomed the Cochran Fellows and provided opening remarks on the international research activities of the department and the interdisciplinary international research activities of the Stakman-Borlaug Center. Karen Holkanson, managing director of the Stakman-Borlaug Center, provided administrative support for the program and participated in the welcoming and orientation sessions for the Cochran Fellows. Tavvs Alves, Ph.D. program, Department of Entomology, UMN, assisted with the training program as a co-instructor. The following instructors from UMN contributed presentations and/or field trip assistance during the training program: Brett Arentz (assistant teaching professor, plant pathology), Matthew Clark (assistant professor, horticultural science), Jerry Herzfeld (associate extension professor, plant pathology), and Jo Kaser (Ph.D. program, entomology). Training included presentations, field trips, and computer exercises. Field trips included a visit to the Minnesota Department of Agriculture, express carrier DHL, Pine Tree Apple Orchard, St. Croix Vineyards, UMN Plant Disease Clinic, and a Metabolomics Laboratory at UMN. Participants from Macedonia in the training program were selected by the USDA, Foreign Agricultural Service for the Cochran Fellowship Program and included Nadica Djerkovska, Fikret Ajdini, Kriste Tashve, Mentor Zejkiri, Kalina Altanidjye, Snezhana Arizanova, and Ivica Angelovski of the Macedonia Phytosanitary Directorate.

On February 25, 2016, Jeffery Jones of the University of Florida was invited to visit with the Department of Plant Pathology and Environmental Microbiology (PPEM) at Penn State University (PSU) as the 8th RR Nelson Memorial Lecturer. Jones presented his work “Insights into variation of Xanthomonas perforans and other xanthomonads using multilocus sequence analysis and whole genome sequencing” to a packed room in Buckhout Laboratory. The R. R. Nelson Memorial Lecture endowment was established by Nelson’s family, friends, and colleagues in honor of his distinguished career at PSU (1966–1985) and beyond. R. R. Nelson made groundbreaking contributions in the fields of fungal virulence, host resistance, and plant disease epidemiology. In 1974, he was named Evan Pugh professor, PSU’s faculty distinction. PPEM honors Nelson’s dedication to graduate education by inviting the leaders in plant pathology to PSU to educate, mentor, socialize, and collaborate with students, faculty, and staff. Jones had vibrant discussions with members of the department after his seminar, during meals, and in one-on-one meetings. His visit strengthened current collaborations and more than fulfilled the expectations of the endowment.

Retirement

John L. Sherwood, professor and head of the Department of Plant Pathology at the University of Georgia (UGA) and assistant dean for the Office of Diversity Relations and Multicultural Affairs in the College of Agricultural and Environmental Sciences at UGA, retired in February 2016. He completed a B.S. degree at the College of William and Mary in Virginia, an M.S. degree under the direction of W. L. Klarman at the University of Maryland-College Park, and a Ph.D. degree under the direction of R. W. Fulton at the University of Wisconsin-Madison. He was a post-doctoral associate and then faculty member at Oklahoma State University (OSU) from 1981 to 1997, where he worked on a range of viruses affecting different crops in Oklahoma. In 1988, he received the James A. Whatley Award of Merit at OSU. He joined the Department of Plant Pathology at UGA in 1997 as professor and head and continued to work on Tospoviruses for several years before becoming meaningfully involved in APS leadership and other activities. He was an associate editor for Plant Disease (1990–1991) and then senior editor (1991–1994). He served as APS treasurer from 1997 to 2003 and on the APS Public Policy Board from 2000 to 2005 (serving as chair from 2001 to 2005), during which time he represented APS at a number of venues on public policy issues affecting the discipline of plant pathology.

In 2005, he was invited to present comment to the U.S. Senate Committee on Agriculture, Nutrition, and Forestry (Senator Saxby Chambliss of GA, chair) on biosecurity preparedness and efforts to address agroterrorism threats. He served in the APS presidential lineage from 2008 to 2013, serving as president for 2010–2011, and as immediate past president for two terms. He was named an APS Fellow in 2004. Other activities included serving as a part-time National Program Leader at USDA in the Competitive Grants Program (then the USDA-CSREES NRI) from 2005 to 2008 for a joint effort with NSF on the Microbial Observatories Program and the USDA-NRI Plant Biosecurity Program. He also served as the first APS Fellow in the Office of Science and Technology Policy in the Executive Office of the President from fall 2008 to spring 2009. At UGA, in addition to his duties as department head, he began service as assistant dean for the Office of Diversity Relations and Multicultural Affairs in 2013 until his retirement. In retirement, he plans to enjoy some unscheduled time and time with his wife Marie.

In Memory

Edward E. Butler, professor emeritus of plant pathology at the University of California-Davis, passed away on September 11, 2015. Butler was born on December 8, 1919, in Wilmington, DE. He graduated from Seafield High School (Seaford, DE) in 1938 and, upon graduation, enrolled in the University of Delaware, where he earned a B.S. degree in agriculture in 1943. Upon graduation he went directly into the U.S. Army, achieving the rank of captain in the Artillery during his service in World War II. Following his discharge from the Army in 1946, he entered graduate school at Michigan State University (MSU), where he earned his M.S. degree in botany and plant pathology. He then enrolled in the graduate program at the University of Minnesota (UMN), where he earned his Ph.D. degree in plant pathology in 1954. He studied under two giants during his graduate work at MSU and UMN: Constantine Alexopoulos and E. C. Stakman, respectively. In 1955, Ed joined the faculty at the University of California-Davis as a junior plant pathologist. In 1957, he was promoted to assistant plant pathologist, followed by promotion to associate professor in 1962 and full professor in 1969.

Initially, Ed was responsible for developing a research program in the area of postharvest diseases of fresh fruits and vegetables. However, following his assignment to teach advanced mycology, his research evolved to focus more on the ecology, biology, cytology, and sexuality of fungi. Ed’s research was in several broad areas within the discipline of
Ed's primary teaching responsibility was advanced mycology—focusing on plant-pathogenic fungi. He taught this course from the 1950s until his retirement in 1990. He also supervised nine Ph.D. and two M.S. candidates and served on the research committees of 16 other Ph.D. candidates. Ed served for many years as an academic advisor for graduate students and as a member of the department's graduate affairs and curriculum committees.

Ed was a member of APS, the Mycological Society of America, the Botanical Society of America, and the British Mycological Society. In 1981, he was the second recipient of the prestigious W. H. Weston award for teaching excellence in mycology, from the Mycological Society of America, the highest recognition possible in the area. When asked to describe what qualities characterized his teaching, he first acknowledged an undefinable human element that students respected and responded to. But then he explained that it was important to establish a relationship that helped students enjoy the subject matter and search beyond what was required in the course. He sought to foster a relationship that provoked students but also instilled trust and let the students know that he cared for them. He also tried to relate mycology to human affairs and he assigned high value to the laboratory as an important learning environment. In 1991, Ed was named a Fellow of the American Association for the Advancement of Science. He was active in APS, serving as the local arrangements chair for the 1966 and 1975 Pacific Division meetings in Davis. He served for many years on the APS Mycology Committee, the Monographs and Reviews Committee, and the Archives Committee. He was the University of California-Davis (UCD) quarantine representative to the California Department of Food and Agriculture. He also served for many years on the governing board of the UCD chapter of the honor society of Phi Kappa Phi, and was acknowledged by this organization in 1990 for his contributions to excellence in education.

Ed's influence extended from the graduate students in his own department to those in other departments and schools to faculty colleagues in his department to his professional societies and virtually everyone he came into contact with. Following his retirement, Ed continued to remain active in the department for many years in a small office/laboratory where many graduate students sought his advice and opinions on mycological issues. His door was always open to them. Ed is survived by his wife of 68 years, Mildred; his brother Edward Harry; his sons David (JoAnne) and Stephen (Gail); his daughter Susan Epling (David), and sons Thomas (Cherie) and James (Stephanie), as well as numerous nieces, nephews, and grandchildren. A celebration of his life was held in Davis on January 9, 2016.

Written by Richard M. Bostock and James D. MacDonald, Department of Plant Pathology, University of California, Davis, February 2016.

Larry D. Smith passed away on July 18, 2015. Born June 26, 1947, in Jonesboro, AR, Smith was a veteran of the U.S. Navy. Smith was a regulatory consultant. For 14 years he owned and operated LS Consulting Services, LLC. Prior to that he worked at ISK Biosciences Corp., Pennwalt Corp., and Chemlawn Corp. He was an associate professor at Tennessee Technical University.

Smith received his Ph.D. degree in plant pathology from the University of Illinois (1978), his master's degree from the University of Arkansas, and his B.S. degree in biology and chemistry from Little Rock University (1969). He was a member of the Alumni Associations at the University of Illinois and the University of Arkansas and a member of The American Phytopathological Society. Survivors include his wife of 40 years, Mary Lou Smith; son, Scott G. (Kristen) Smith; and other family members. He is preceded in death by his parents: Russell and Mildred Smith; and in-laws: Eldon and Margaret Henderson.
Classified Policy: You can process your job listing at www.apsnet.org/careers/jobcenter. Please note: Your online job listing may be edited by newsletter staff to approximately 200 words for the print listing in Phytopathology News. Fees for posting online are $25 member/$50 nonmember for graduate or post-doc positions and $200 member/$250 nonmember for all other positions. To have your job listing included in Phytopathology News, simply select the option on the online form (there is an additional $55 fee). If you have any questions, contact the APS Placement Coordinator (apsplacement@scisoc.org).

Research Scientist
Cibus US LLC, a leading agricultural biotechnology company in San Diego, CA, has an immediate opening for a research scientist position to participate in the application of Cibus’ proprietary technology (RTDS) to develop new traits related to the control of plant diseases. Along with a team of research specialists/associates, the successful applicant will be responsible for effective execution of laboratory activities to further project-related scientific evaluations. Position duties include application of molecular biology techniques to evaluate plant-microbe interactions, mentoring of junior staff, and development of pathogen assays, as well as plant cell culture techniques and others. The ideal candidate will have an M.Sc./Ph.D. degree in plant pathology or plant molecular biology; a minimum of five years’ experience in commercial and/or academic areas such as plant pathology, molecular plant-microbe evaluations, pathogen assay development and plant transformation; or its equivalent. Candidates with prior hands-on experience in the development of various pathogen assays, including growth chamber and field assays, are strongly encouraged to apply. Experience in molecular methods and basic bioinformatics for evaluating plant-microbe interactions and application of statistics for data analysis is highly desired. Ability to exercise technical discretion in the design, execution, and interpretation of experiments that contribute to project strategies, prepare technical reports, data summaries, protocols, and quantitative analyses is essential. Proven record of effectively mentoring staff. Cibus US LLC provides an attractive compensation and benefits package that includes medical/dental/vision, flexible spending, 401(k) plan, vacation, and sick leave. Please e-mail resume to hr@cibus.com (job code: DT1519). Only candidates with work authorization in the United States are considered at this time. This position is open until filled.

Ph.D. Graduate Research Assistant
Texas A&M University (TAMU) has a Ph.D. graduate research assistant position available immediately for a USDA/NIFA project focusing on utilizing cover crops, host resistance, and seed treatment for integrated control of diseases in organic rice. The successful candidate will evaluate the impacts of brassica biofumigation cover crops, cultivar resistance, and biocontrol agents on disease severity and yield and conduct research to understand the potential mechanisms involved in organic rice production systems. Experiments will be carried out in the field, greenhouse, and lab. Responsibilities include experimental design, data analysis and interpretation, oral and poster presentations of results at scientific meetings, and publication of results in scientific journals.

The student will be expected to begin summer or fall 2016 to conduct research at the TAMU System’s AgriLife Research and Extension Center in Beaumont, TX. Minimum requirements: an M.S. degree in plant pathology, microbiology, or a related field. The successful candidate should have sound background in epidemiology and statistical analysis and required microbiological laboratory techniques, including isolation, culturing, and maintenance of microbial cultures. In addition, experience working under field conditions and working on PCR and soil microbial community analysis is preferred. Transcripts of colleges/universities attended, GRE scores, TOEFL scores (if applicable), CV, a statement of your long-term professional goals, and contact information of three references need to be submitted with the application. To apply, please submit your materials to Xin-Gen (Shane) Zhou at xzhou@aesrg.tamu.edu. In addition, please submit your pre-application form to the TAMU Department of Plant Pathology at http://plantpathology.tamu.edu/academics/graduate-program/graduate-student-admissions. This position is open until filled.

Research Assistant
Plant Science Inc. is seeking a research assistant who is responsible for, but not limited to, the following: contract research experimental design; documentation of laboratory procedures, research activities, and results; data collection, entry, analysis, and reporting of research work; maintenance of plant pathogen culture collection inoculation of plants with fungal, oomycete, or bacterial plant pathogens; assessment of plant disease incidence and severity on inoculated plants; assess plant vigor and other traits, such as flower and runner production; postharvest fruit quality assessments; manage field labor to ensure proper field set-up and maintenance of experiments; compliance with regulatory bodies, including documentation and inspections where appropriate; culture media preparation; and lab equipment maintenance. Requirements are a B.Sc. or M.Sc. degree in a biological science, preferred plant pathology, mycology, agriculture, biology, or chemistry; research experience in agriculture in a field or lab setting; experimental design experience; must have the ability to work safely with chemicals, follow good laboratory practice standards, keep accurate and detailed records of all research operations, and work both independently with minimal supervision and as part of a team on larger research projects; a valid driver’s license; willingness to travel regularly, including out-of-state trips, which may last a week or more at a time; and bilingual; fluent in English and Spanish, not essential but would be beneficial. Send cover letter and resume to ctaylor@plantsciences.com. Position is open until filled.
The Role of Hybridization in the Evolution and Emergence of New Fungal Plant Pathogens
Eva H. Stukenbrock

Plant Disease Detection by Imaging Sensors—Parallels and Specific Demands for Precision Agriculture and Plant Phenotyping
Anne-Katrin Mahlein

Diversity of Xanthomonas campestris Isolates from Symptomatic Crucifers
H. W. Lange, M. A. Tancos, M. O. Carlson, and C. D. Smart

Reduced Susceptibility to Xanthomonas citri in Transgenic Citrus
Guixia Hao, Marco Pitino, Yongping Duan, and Ed Stover

Genetic Diversity and Biocontrol of Rosellinia necatrix Infecting Apple in Northern Italy
Luca Pasini, Daniele Prodorutti, Sandro Pastorelli, and Ilaria Pertot

Phytophthora ramorum Causes Cryptic Bole Cankers in Canyon Live Oak
T. J. Swiecki, E. A. Bernhardt, K. Aram, D. M. Rizzo, T. Kasuga, and M. Bui

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### Calendar of Events

<table>
<thead>
<tr>
<th>APS-Sponsored Events</th>
<th>Other Upcoming Events</th>
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<tbody>
<tr>
<td><strong>JUNE 2016</strong></td>
<td><strong>APRIL 2016</strong></td>
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<td>7-9 North Central Division Meeting, Roseville, MN. <a href="http://www.apsnet.org/members/divisions/nc">www.apsnet.org/members/divisions/nc</a></td>
<td>11-12 The 3rd Plant Genomics Congress: Asia. Kuala Lumpur, Malaysia. <a href="http://www.globalengage.co.uk/plantgenomicsasia.html">www.globalengage.co.uk/plantgenomicsasia.html</a></td>
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<td><strong>JULY 2016</strong></td>
<td><strong>MAY 2016</strong></td>
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<td><strong>OCTOBER 2016</strong></td>
<td><strong>JUNE 2016</strong></td>
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<td><strong>JULY 2016</strong></td>
<td><strong>SEPTEMBER 2016</strong></td>
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<tr>
<td><strong>OCTOBER 2016</strong></td>
<td><strong>NOVEMBER 2016</strong></td>
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<td>1-2 Tomato Disease Workshop. Hendersonville, NC. <a href="http://www.ncsu.edu/mckimmon/cpe/opd/TDW">www.ncsu.edu/mckimmon/cpe/opd/TDW</a></td>
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### Important APS Dates to Remember

| MAY 2016 | 15 Applications due for Outstanding Volunteer Award |
|          | 17 Advanced registration deadline for annual meeting |
| JULY 2016 | 1 Art in Phytopathology submissions due |