Congratulations 2005 APS Awardees!

APS is pleased to honor the following individuals who have made significant contributions to the science of plant pathology. The awards will be presented during the APS Annual Meeting in Austin, TX, on Tuesday, August 2. Biographies for each of the awardees are available at www.apsnet.org/members/awards/2005Awardees.asp.

**APS Fellows**
- Carol L. Bender, Oklahoma State University
- Raghavan Charudattan, University of Florida, Gainesville
- Jacqueline Fletcher, Oklahoma State University
- Christopher A. Gilligan, University of Cambridge
- Walter F.O. Marasas, Medical Research Council
- Bruce A. McDonald, Institute of Plant Science
- Robert A. Owens, USDA ARS
- Gail Schumann, Marquette University
- Xiao-Bing Yang, Iowa State University

**Excellence in Extension**
- Melodie Putnam, Oregon State University

**Excellence in Teaching**
- Caitilyn Allen, University of Wisconsin, Madison

**International Service**
- James R. Stedman, University of Nebraska-Lincoln

**Noel T. Keen Award for Research in Molecular Plant Pathology**
- Thomas J. Wolpert, Oregon State University

**Ruth Allen Award**
- Andrew O. Jackson, University of California-Berkeley
- Thomas Jack Morris, University of Nebraska-Lincoln

**Syngenta**
- James R. Alfano, University of Nebraska-Lincoln

---

New APS Foundation Stephen A. Johnston Travel Award Established

The APS Foundation is pleased to announce the establishment of the Stephen A. Johnston Student Travel Fund made possible by donations from his friends and colleagues, and the Northeastern Division of APS. Steve, who died in an accident April 16, 2003, while helping a neighbor cut a tree, was not only a great plant pathologist, a key person in the Northeastern Division, and an important participant in the national APS organization, he was a great friend to many of us in APS.

Steve was one of the senior members of the Plant Pathology Department at Rutgers University. He joined the plant pathology faculty in July 1977 and was stationed at the Rutgers Agricultural Research and Education Center in Bridgeton, NJ. His primary responsibility was to conduct a research and extension program directed toward the etiology, epidemiology, and management of fungal pathogens associated with vegetable crops. He worked tirelessly for the department and the growers of New Jersey and was recognized as a leader in the agricultural community in the Mid-Atlantic Region. Among Johnston's greatest strengths was his commitment to his clientele, including growers, agricultural agents, and the public at large. He exemplified all that an excellent extension specialist should.
Stephen A. Johnston Travel Award continued from page 81

be and developed a well-rounded program that integrated applied research with extension and teaching activities.

A large component of Steve's program focused on reducing fungicide use and enhancing the efficacy of various disease management practices in vegetable crops. He developed an innovative research program that combined environmental and cultural considerations with the use of pesticides to manage diseases of great economic importance to vegetable growers in the region. For example, when a new mating type of *Phytophthora infestans* threatened New Jersey potato production in the mid-1990s, Steve helped to avert an epidemic by obtaining a special Section 18 Emergency Exemption Registration for the fungicides needed to combat this disease. Steve conducted fungicide efficacy trials in the laboratory and the field and studied populations of the fungus to understand its epidemiology and spread. He also successfully evaluated and implemented the Potato Late Blight Fax Forecast System for potato growers via the Rutgers Vegetable IPM Program. Through Steve's countless contacts with growers via extension meetings, field visits, and phone calls, growers were able to avoid disaster and now have a much better understanding of the biology of potato late blight and its management.

Steve had similar successes with diseases affecting other crops, such as tomatoes and peppers. Processing tomato growers, using the TOM-CAST forecasting system evaluated and implemented by Steve, have optimized fungicide applications to protect tomatoes from foliar and fruit diseases. To his credit, almost none of the fruit produced by growers using this system has been rejected at the processor since the program's inception. In other areas of research, Steve conducted work on the epidemiology, etiology, biological control, cultural management, and efficacy of fungicides for a number of vegetable diseases. He also worked extensively on the effectiveness of soil solarization in greenhouses and evaluated fungicidal volatiles produced by cruciferous crops. Through his extension and research efforts, vegetable growers throughout the region have been able to maintain productivity and profitability.

Steve was considered one of the top vegetable extension plant pathologists in the United States. He was highly successful in attracting funding from diverse sources and consistently published his research findings in quality publications, including refereed and nonrefereed journals, research reports, and proceedings. Among his many honors, Steve was awarded the NEDAPS Award of Merit in 2000 and the Rutgers Cooperative Extension Award of Excellence in 1999. He also served as an invited member of the Western Regional IPM Peer Review Panel in 1999 and participated on the FIFA Scientific Advisory Panel in Washington, DC, in 1995.

Steve's commitment to the Rutgers Plant Pathology Department and to education in the discipline of plant pathology was epitomized by his willingness to actively participate in on-campus activities. Although Steve was stationed approximately 100 miles from campus and had no formal teaching appointment, he participated fully in undergraduate and graduate courses at Rutgers University. He devoted countless hours to student mentoring, serving as mentor for 10 graduate students in plant pathology, and worked as a tireless advocate of the Plant Pathology Department at the university.

Throughout his career, Steve served his profession with distinction: he was president of the APS Northeastern Division, served as senior editor of *Plant Disease*, and actively participated on many APS committees. Steve also participated extensively in the IR4 program, which evaluates fungicides for minor use crops. In 2001, Steve was asked to replace Bob Nyvall as editor-in-chief of *Phytopathology*. Despite a busy schedule at the peak of his career, Steve agreed to serve in this capacity. He enjoyed the challenge and was in the second year of his appointment at the time of his death.

Many who knew Steve well were privileged to share in his enjoyment of life. He loved sports and outdoor activities, and many of these revolved around his farm near Carney's Point, NJ. Every year, the onset of summer was accompanied by barbecues and swimming parties that included large groups of family and friends from all around the region.

True to form, Steve was helping a friend when he was killed by a sudden snap of a tree that they were removing. The hundreds of family members, friends, and colleagues who attended his memorial service attest to the depth and breadth of Steve's impact on those who knew him well. A recurring comment throughout the gathering was how we all will remember Steve with his ever-present smile and how much we all will miss that smile and the man behind it. Steve is survived by his wife Faith, his two sons Adam and Matthew, and his mother Elizabeth. Steve's family has established a scholarship fund in support of graduate students in plant pathology. In the same manner, the APS Northeastern Division is proud to establish an APS Student Travel Award to honor the memory of Stephen A. Johnston.
Almost all plant pathologists at one time or another discuss, or at least wonder about, which of the various types of plant pathogens are the most important and/or most interesting. In older, standard plant pathology texts it is commonly stated that fungi cause the most plant diseases, followed by viruses, bacteria, nematodes, and then other less recognized pathogens. However, the importance of specific pathogens varies with geography, crop or plant type, season, and even the year. And now, in an age of genomics, proteomics, metabolomics, etc, biological information is being gained at an enormously rapid rate, and changing the ways in which we look at many things, including plant pathogens. Pathogens have been reclassified taxonomically (for example, the Oomycota are no longer considered fungi, but placed within the Kingdom Chromista), and for many plant pathogens, we now know complete genomic sequences, and in the case of viroids, even the complete atomic structure of the infectious agent. Thus, the question as to which pathogen(s) are most important or most interesting has been ongoing with good reason. But, it appears that the U.S. federal government has stepped in and answered the question once and for all.

The U.S. government recently issued a series of spring flower stamps. By looking closely at these stamps, the message is clear. This series includes only one stamp showing typical plant disease symptoms (see figure 1), that of a tulip showing classic symptoms of tulip break, caused by several related viruses of the genus Potyvirus (Lesnaw and Ghabrial, 2000, Tulip breaking: Past, present, and future, Plant Dis. 84:1052-1060). Is it coincidence that symptoms for only one type of plant pathogen are included? I think not. I encourage plant pathologists to help spread the word, use these stamps, and realize that plant viruses are the most important and interesting of the plant pathogens.
APS Foundation

Update on the APS Foundation Campaign to Celebrate the 100th Anniversary of APS

The APS Foundation board is currently conducting a fund-raising campaign, designated “100 for the 100th,” to help celebrate the 100th anniversary of the establishment of APS. We are asking members to consider donating $100 to the Foundation toward our goal of raising $100,000 by the 2008 centennial year to be used for two specific areas:

- To increase the endowment for each student travel fund to a minimum of $10,000. This would allow us to increase the travel award from the current $400 to $600.
- To increase support for the International Travel Award to support travel to the APS meeting by young international plant pathologists. Currently, we provide one $2,000 award each year, but we’d like to increase this to two or more awards each year.

Since the start of the “100 for 100th” campaign, donations totaling more than $11,000 have been received, which is a good start toward our goal of $100,000. If you haven’t yet contributed, please do so! A good time to make your donation would be at the annual meeting in Austin, TX—just stop by the APS Foundation booth in the registration area.

Together We Make a Difference

More than 1,400 donors have contributed to the APS Foundation to date. You too can help insure a bright future for plant pathology. Become a donor. Stop by the APS Foundation booth in Austin.

Division News

APS Potomac Division Meets in Ocean City, MD

Kathryn L. Everts, University of Maryland and University of Delaware

The 61st Annual Meeting of the APS Potomac Division was held March 16–18, 2005, at the Carousel Resort Hotel in Ocean City, MD. There were 97 registered attendees. A premeeting Ecotour of Assateague Island National Seashore was attended by 43 attendees, who braved the wind and cold to observe the wild horses, sika deer, the “Nixon Road,” and vegetation shaped by salt-laden winds. The scientific meeting highlighted symposia on “Durable Resistance,” “Diagnostics in a Genomics Era,” and “Sudden Oak Death.” Arv Grybauskas led a discussion session with an open mike format that gave industry, extension, and regulatory plant pathologists an opportunity to discuss new products and the progress of emerging diseases in the region. An interesting and cosmopolitan group of contributed papers and posters spanned topics from cacao pathogens in Africa and South America and phytoplasmas in Lithuania to control of target spot of tobacco in Virginia.

A workshop on molecular techniques was chaired by Mary Strem. Nine presentations divulged “Tricks of the Trade, Hints for Successful Molecular Methods Including Diagnostics.” This new format was a terrific success, and the division plans to post information from the workshop on its website (www.filebox.vt.edu/users/abaudoin/potomac/).

The Best Student Paper Award was won by Alyssa A. Collins (University of Delaware) for her presentation “Impact of Cover Cropping Systems on Fruit Rots of Pumpkin.” Honorable mention went to Revital Hermann (University of Delaware) for her paper “Characterization and Efficacy Testing of Novel Antifungal Peptides in Transgenic Rice” and to Jiahuai Hu (Virginia Polytechnic Institute and State University) for his paper “Propamocarb Resistance of Phytophthora nicotianae Populations at Ornamental Plant Nurseries in Virginia.” The election of new officers was announced; Daniel P. Roberts was re-elected secretary-treasurer and Kathryn L. Everts was elected vice president. Robert P. Davis presided over the meeting as president and then passed the gavel to incoming president John L. (Jay) Norelli. Following the awards banquet, a really “cool” guest speaker, Eric Erbe (Director of the Electron Microscopy Lab, USDA-ARS, Beltsville, MD), presented “Agriculture, Snowflakes and Avalanches: Frontiers in Electron Microscopy,” which showcased his photographs of snowflakes and snow crystals, some in three-dimensional view! Above-average meeting attendance was credited to the excellent preparations of Bob Davis, and to the local arrangements committee, which was chaired by Nikki O’Neill. Next year’s meeting will be hosted by the University of Delaware.
Annual Review of Phytopathology®

Available Online and in Print—Volume 43, September 2005
ISSN: 0066-4286  ISBN: 0-8243-1343-7

Editor: Neal K. Van Allen, University of California, Davis
Associate Editors: George E. Broening
University of California, Davis
William O. Dawson
University of Florida

The Annual Review of Phytopathology, in publication since 1963, covers significant developments in the field of Phytopathology, including Pioneer Leaders, Development of Concepts, Plant Disease Diagnosis, Pathogens, Host-Pathogen Interactions, Epidemiology and Ecology, Breeding for Resistance and Plant Disease Management, and Special Topics. This journal is ideal for phytopathologists and plant biologists, as well as those in the fields of crop and soil sciences, ecology, and plant genetics.

The Annual Review of Phytopathology is ranked #5 by impact factor of the 136 Plant Sciences publications assessed by the ISI Journal Citation Reports (JCR®).

Access this series at http://phyto.annualreviews.org

Annual Review of Plant Biology®

Available Online and in Print—Volume 56, June 2005

Editor: Sabeeha Merchant
University of California, Los Angeles
Associate Editors: Windows R. Briggs
Carnegie Institution of Washington, Stanford, California
Vicki L Chandler
University of Arizona

The Annual Review of Plant Biology, in publication since 1950, covers significant developments in the field of Plant Biology, including Biochemistry and Biosynthesis, Genetics and Molecular Biology, Cell Differentiation, Tissue, Organ and Whole Plant Events, Acclimation and Adaptation, and Methods.

The Annual Review of Plant Biology is ranked #1 by impact factor of the 136 Plant Sciences publications assessed by the ISI Journal Citation Reports (JCR®).

Access this series at http://plant.annualreviews.org

American Phytopathological Society
Members—SAVE 20%!

ORDER FORM Priority Order Code: JAPY05

<table>
<thead>
<tr>
<th>QTY.</th>
<th>Annual Review of</th>
<th>PRICE</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Phytopathology, Vol. 43</td>
<td>Ind. □ $79 US □ $84 FTR</td>
<td>$</td>
</tr>
<tr>
<td></td>
<td>Plant Biology, Vol. 56</td>
<td>Ind. □ $81 US □ $86 FTR</td>
<td>$</td>
</tr>
<tr>
<td></td>
<td>APS MEMBER DISCOUNT. Deduct 20% from list price.</td>
<td>□ $</td>
<td></td>
</tr>
<tr>
<td>Canadian customers. Add 7% Canadian GST. (Reg. #121447039 RT)</td>
<td>$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Handling fee. (Applies to all orders.) $4 per book, $12 max. per ship-to location</td>
<td>$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SUBTOTAL</td>
<td>$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>California customers. Add applicable sales tax for your county.</td>
<td>$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>$</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PAYMENT METHOD:
☐ Check or money order (made payable to Annual Reviews in US dollars drawn on a US Bank)
☐ Bill my credit card □ VISA □ MasterCard □ AMEX

Account
Exp. Date

Name  Print name exactly as it appears on credit card

Signature

Mail order and payment to: ANNUAL REVIEWS, 4139 El Camino Way, P. O. Box 10139, Palo Alto, CA 94303-0139 USA

CALL TOLL FREE (US/CAN) 800.523.8635  |  CALL 650.424.4400 WORLDWIDE
FAX: 650.424.0910  |  EMAIL: service@annualreviews.org
Order online at www.annualreviews.org

CUSTOMER AND SHIPMENT INFORMATION (Please type or print clearly.)

NAME

COMPANY/ORGANIZATION

ADDRESS

CITY STATE/PROVINCE

POSTAL CODE COUNTRY

TELEPHONE FAX

EMAIL

A current individual print subscription includes online access to the full text content in the current volume and 4 years of back volumes as they become available. Contact Annual Reviews for site license options and institutional pricing.

ANNUAL REVIEWS  |  Intelligent Synthesis of the Scientific Literature
Public Policy Update

Microbe Genome Sequence List-Revision Update

Scott Gold, University of Georgia, sgold@uga.edu

Surveys of APS membership have indicated that microbial sequencing continues to be a topic of high interest. Here I discuss efforts to carry out a second revision of the Microbe Genome Sequence List and also pass on information for an upcoming competition at the DOE Joint Genome Institute for genome sequencing that may be particularly useful in sequencing sets of organisms rather than sequencing organisms one at a time.

List Revision

We are currently embarking on a second revision of the list, to be finalized following the APS Annual Meeting in Austin, TX. In 2003, with extensive input from 17 APS standing committees, I as part of the activities of the Public Policy Board (PPB), generated a revised list of microbes considered to be of priority for genomic sequencing. Revisions are necessary because of progress in sequencing listed species and the dynamic nature of plant diseases. The efforts of research scientists and the support of the various funding agencies has made possible a change from having essentially no sequence data for plant-associated microbes in 2000, when the original list was initiated through the efforts of the APS PPB under the direction of O. W. Barnett, to the current situation, in which several microbes on the original and now the 2003 revised list have been or are in the process of being sequenced. Because the list has been helpful to both researchers and funding agencies as support for proposals and new funding initiatives, it is in the best interest of APS members that the list be updated periodically.

The process of updating the list has recently been initiated with a solicitation to the chairs and vice chairs of the APS subject matter committees. I have asked the chairs for a statement of interest in participation and, after consultation with their committee’s members, suggested changes to the 2003 list. Several committee chairs indicated that they felt that it would be helpful to discuss these issues with their members at the Austin meeting. I, therefore, plan to compile interim input into a “2005 Provisional Revised Microbe Genome Sequence List” to be posted by June 15, on the APS website (www.apsnet.org/members/ppb/). All members are encouraged to view this document and provide input through a pertinent committee. On August 3 in Austin there will be time allotted to discuss the list revision during the “APS Public Policy Board: Activities, Strategies, and Perspectives” session.

Finally, I wish to express my gratitude to the many dedicated APS committee chairs, vice chairs, and members for their participation in this effort to help make the sequencing of a growing number of plant associated microbes a reality.

DOE Call for Genomics Proposals

A “Request for Suggestions” has gone out from the Department of Energy (DOE) and can be found at www.microbialgenome.org/announcement/2006SeqNominations.pdf. The deadline for submission is July 14, 2005. Organisms must pertain to one of the scientific missions of the DOE Office of Biological and Environmental Research. Some potentially good fits within the plant-associated microbes are beneficial microbes and forest pathogens, as well as others.

The DOE does not offer direct financial support for research on these organisms. Rather, selected nominations will be sequenced at a draft level (6–8 × coverage) at the DOE Production Genomics Facility (PGF) at the Joint Genome Institute (JGI) (www.jgi.doe.gov). More information on DOE’s microbial genomics efforts can be found at www.microbialgenome.org/brochure.pdf. For further information on this and other DOE genomics efforts, contact Daniel W. Drell (daniel.drell@science.doe.gov).

Standardization of Common Names for Plant Diseases: An Important APS Committee

Common names of plant diseases are used on a daily basis in conversation and publication by a wide cross section of human society, including professional plant pathologists. A few years ago, the APS Committee for the Standardization of Common Names for Plant Diseases was set up to steward “official lists” of common names of plant diseases. These lists are posted on the APS website (www.apsnet.org/online/common) and are available to anyone accessing the site. The committee was specifically charged to make the lists “better” and “more generally useful.” The committee was not charged with making, nor does it have any plans to initiate, wholesale changes of common names in general use. The committee is responsible for managing the revision and correction of existing lists and coordinating the production of new lists in an organized manner. The only official status these lists enjoy is that they are orderly collections of common names that must be used in all APS PRESS and journal publications. The lists are derived in two general ways:

1. When an APS compendium is written or revised, a list of common names of diseases included in the compendium is also prepared and submitted.
2. Anyone may volunteer to prepare a list of common names of diseases for a particular crop if no compendium for that crop exists.

Once submitted and posted as final, these lists become outdated like any other printed material as new diseases are described and pathogen taxonomy changes. Anyone who works with viral diseases will see that older lists do not include the virus nomenclature now in use. Listed lists are updated in three general ways:

1. When a compendium is revised, an updated list of common names for diseases covered is to be submitted.
2. Volunteers can undertake revision of any list at any time when there is no compendium in preparation or revision.
3. Anyone seeing a need to make a specific addition or change to a list can do so at any time by notifying the chair of the committee.
Your partner for growth
Voluntary list creation or revision requires approval by the committee to avoid the prospect of simultaneous preparation of multiple lists of disease names for a particular crop.

Once a new or revised list is prepared, it is submitted via e-mail to the chair of the committee and then published in *Phytopathology News* and posted on the APS website. The list remains posted as a temporary list for review and open commentary for a minimum of six months. At the conclusion of the review period, the list is transferred to the permanent library of lists of common names of plant diseases on the APS website.

The lists of common names of plant diseases are intended to be a resource for APS members and the interested public. All APS members have a stake in keeping these lists as current as possible. This is easily done by looking at them and informing the committee via an e-mail to the committee chair of needed changes.

If you would like more information about the APS Committee for the Standardization of Common Names for Plant Diseases or are interested in becoming a member of this committee, please contact Paul Bertrand, the current committee chair, via e-mail at bertrand@uga.edu.

---

**Did You Know?**

Annual Meeting time is the perfect time for new members. A special one-year membership is available to nonmembers who attend the APS Annual Meeting under the Meeting Plus Membership Plan. If you know a colleague who plans to join us in Austin, make sure you tell them to select the Meeting Plus Membership option on their registration form. Online registration for both members and nonmembers is available at http://meeting.apsnet.org.

Thanks to you APS is growing! You are the single most important source of new member referrals. Keep the momentum going. Tell a colleague about membership in APS.

---

**STILL USING BSA?!?!**

Work easier, faster, and safer with Prionex!

Unlike BSA, Prionex® is:

- √ consistent from lot to lot
- √ water-soluble
- √ free of additives
- √ abundantly available
- √ prion-free
- √ low in endotoxins
- √ non-antigenic

In most applications, Prionex replaces BSA directly as a:

- √ protein and enzyme stabilizer
- √ protectant during lyophilization
- √ blocking agent in ELISA’s and other immunological assays

Prionex is a sterile, heat-treated peptide fraction of porcine collagen. Contact us today for complete details!

Manufactured by **Pentapharm**

**CENTERCHEM, INC.**

20 Glover Avenue Norwalk, CT 06850
Tel: (203) 822-9800  Fax: (203) 822-9820
e-mail: biochemicals@centerchem.com
www.centerchem.com

© 2003 Centerchem, Inc. All rights reserved.
© Prionex is a registered trademark of Pentapharm Ltd.
Since the inception of the PLANT MANAGEMENT NETWORK’s online-only journals, new articles have first been publicly available, at no cost, upon initial publication. The purpose of this system was to allow readers and prospective authors to become familiar with PMN’s new electronic format and with the applied nature and scope of each individual journal. Subsequently, older articles were then rotated into a subscription archive. The system was created at a time when Internet publishing was in its infancy, and there were no common subscription standards.

Five years later, more uniform online subscription models have evolved. In keeping with these, PMN will implement a more customary subscription-for-access model for its older journals beginning June 30, 2005. The necessity for this stems from the need for PMN to eventually become a self-sustaining not-for-profit endeavor supported by subscriptions and partnerships, as originally envisioned. PMN’s newer journals will continue to offer articles that are originally publicly available to attract additional interest.

PMN’s first two journals, Plant Health Progress and Crop Management, will fully implement subscription access beginning June 30, 2005. For this, tables of contents and summaries of each peer-reviewed article will remain publicly available, but access to full-text articles will require a subscription. News and opinion articles will remain publicly available. After the initial subscription-only access period, all articles 18 months and older will then be made publicly available under PMN’s Open Access policy.

PMN’s two newer journals, Applied Turfgrass Science and Forage and Grazinglands, will continue to publish new articles in the public area to continue to attract new authors and readers. This will be a transitional phase that will remain until such time as each journal can support the full subscription model.

Other PMN publications and resources will be available only to subscribers. These include the PMN Image Collections, Plant Science Database, Education & Training Center, Biological and Cultural Tests for Control of Plant Diseases, Fungicide and Nematicide Tests, and Variety Trials.

Subscriptions are available to both individual subscribers and libraries. They are also available—either at no cost or at a discount—to employees, members, and other qualified affiliates of PMN’s partner organizations. One single subscription fee includes all journals and resources mentioned above.

To assure uninterrupted access, readers are encouraged to subscribe early. Individuals may receive a $10 discount by subscribing online at www.plantmanagementnetwork.org/subscriptions before June 30, 2005, using the promotion code PMN405. Users may also recommend that either their academic, corporate, or government library subscribe or that their organization become a PMN partner. A form for recommending subscriptions to libraries is available online at www.plantmanagementnetwork.org/subscriptions/library/recommend.asp. Information on full partnerships may be obtained from Joan Quam (jquam@scisoc.org), PMN partner relations manager.

www.plantmanagementnetwork.org
Preliminary Technical Program Schedule

Exciting opportunities await you at the 2005 APS Annual Meeting in Austin, Texas. Network with colleagues from around the world and experience a technical program that highlights the latest industry research. Register today. This is a meeting you won’t want to miss!

Additional information can be found online at http://meeting.apsnet.org.

Friday, July 29
7:30 a.m. Friday – 5:00 p.m. Saturday  Field Trip: Forest Pathology, see #2 on the registration form

Saturday, July 30
7:30 a.m. – 5:00 p.m.  Field Trip: Forest Pathology, continued from Friday
7:30 a.m. – 6:00 p.m.  Ornamental Diseases Tour, see #3 on the registration form
8:00 a.m. – 12:00 p.m.  APS Council Meeting
8:00 a.m. – 12:00 p.m.  Workshop: Identification of Fungi Involved in Sick Building Syndrome, see #4 on the registration form
8:00 a.m. – 12:00 p.m.  Workshop: Blazing a Career Path in Plant Pathology, see #5 on the registration form
2:00 – 6:00 p.m.  Workshop: First Steps in a Successful Job Search in Industry: Writing the Resume, Finding the Opening, and Fine-Tuning Interview Skills Workshop, see #7 on the registration form
2:00 – 6:00 p.m.  Workshop: Nonparametric Analysis of Ordinal Data from Designed Experiments, see #8 on the registration form

Sunday, July 31
9:00 – 11:00 a.m.  Welcome & Plenary Session - Looking to the Future of Plant Pathology
1:00 – 5:00 p.m.  Technical Sessions
• Disease Detection and Diagnosis
• Fungi—Systematics/Evolution/Ecology
• Viruses—Systematics/Evolution/Ecology
1:00 – 5:00 p.m.  Special Sessions
• Aquatic Plant Pathology
• Flowers: A Unique Microbial Habitat
• Functional Genomics Meets Bacterial Diseases, Part II: Erwinia Genomics
• Partial Resistance to Plant Diseases: From Selection to Integration
• Qol Fungicide Resistance: Current Status and Management Strategies
• Science and Scientific Exchanges in an Era of “Biosecurity”
5:00 – 7:00 p.m.  Welcome Reception with Exhibit & Poster Viewing
5:00 – 7:00 p.m.  Poster Authors Present

Monday, August 1
8:00 a.m. – 12:00 p.m.  Technical Sessions
• Epidemiology I
• Forest Pathology
• Host Resistance
8:00 a.m. – 12:00 p.m.  Special Sessions
• Fungal Phytotoxins: Biology and Pathogenesis
• Fusarium-Induced Diseases of Tropical Perennial Crops
• Host Factors that Interact with Virus Proteins to Influence Pathogenesis or Host Defenses
• Integrated Approaches to Management of Soilborne Diseases
• Molecular Tools for Nematode Quarantines
• The Nature and Application of Biocontrol Microbes III: Pseudomonas spp.
11:00 a.m. – 6:00 p.m.  Exhibit & Poster Hall Open
1:00 – 5:00 p.m.  Technical Sessions
• Bacteria—Genetics/Molecular Biology/Cell Biology
• Diseases—Fruits and Nuts I
• Diseases—Vegetables

http://meeting.apsnet.org
1:00 – 5:00 p.m. Special Sessions
• 5th I.E. Melhus Graduate Student Symposium: Today’s Students Preparing to Meet Tomorrow’s Challenges in Epidemiology and Plant Disease Management
• Endophytes: An Emerging Tool for Biological Control
• Fusarium Head Blight: A Multifaceted Approach to Understand and Control Plant Disease and Mycotoxin Problems
• History of Plant Virology: A Century of Developing a Discipline (Sponsored by the APS Centennial Planning Committee)
• Permitting and the Global Movement of Plant Pathogens
• Theories on Non-Host Resistance

4:00 – 6:00 p.m. Poster Authors Present

Tuesday, August 2
9:00 a.m. – 12:00 p.m. Technical Sessions
• Diseases—Cereals
• Diseases—Turf and Ornamentals
• Phyllosphere/Rhizosphere Microbiology and Ecology
9:00 a.m. – 12:00 p.m. Special Sessions
• Contributions of Plant Pathology to Biotechnology
• Malicious Microbes: Human Health Hazards in Plant Pathology Laboratories
• Multicultural (National/International) Extension
• Responses to Soybean Rust in the USA
• Risk Prediction and Regulatory Plant Pathology at the Macroscale
11:00 a.m. – 3:00 p.m. Exhibit & Poster Hall Open
2:00 – 5:00 p.m. Technical Sessions
• Diseases—Fruits and Nuts II
• Epidemiology II
• Fungi—Genetics/Molecular Biology/Cell Biology
• Host Parasite Relations—Biochemistry/Molecular Biology/Cell Biology
2:00 – 5:00 p.m. Special Sessions
• Advancement in Seed Treatment Technology
• High Throughput Marker-Assisted Selection for Disease Resistance
• Integrated Strategies in Pathogen Resistance Management for Postharvest Disease Control
• New Products and Services
• Retropathology: Disease for Control of Weeds
• Stakeholder Views on Plant Disease Loss and Risk Assessment

6:30 – 7:30 p.m. Awards & Honors Ceremony
7:30 – 10:30 p.m. Lone Star Jamboree Final Night Celebration

Wednesday, August 3
8:00 a.m. – 12:00 p.m. Technical Sessions
• Biological Control
• Chemical Control
• Viruses—Genetics/Molecular Biology/Cell Biology
8:00 a.m. – 12:00 p.m. Special Sessions
• Annual Update on Priority National Regulatory Issues
• APS Public Policy Board: Activities, Strategies, and Perspectives
• The Secret Life of Rots: The Surprising Complexity of Necrotrophic Fungal-Plant Interactions
• Speculation on the Origin and Spread of Ceratocystis fagacearum, Causal Organism of Oak Wilt
1:00 – 5:00 p.m. Special Sessions
• How Plant Disease Epidemics Affect People
• Pharming in Plant Pathology
• Virus Genetics: Leading to New Insights in Resistance and Susceptibility
1:00 – 5:00 p.m. Workshop: Analysis of Microbial Population Genetic Data, see #20 on the registration form

Known for its casual and playful nature, Austin is the playground of Texas. As the state capital and home to the University of Texas, the city supports a politically charged and culturally rich environment. It’s a hip, trendy, and high-tech city. A large creative population—primarily musicians and artists—enhance its eclectic nature.

Historic Austin
Tour the state capitol of Texas, one of the most beloved landmarks in the Lone Star State. Completed in 1888, the pink granite statehouse stands 311 feet high and is 14 feet higher than our nation’s capitol. Free admission.

Nature Appeal
From April through October, 1.5 million Mexican free-tail bats live under the Congress Avenue Bridge that spans Town Lake. Onlookers flock to the shores nightly to watch the nocturnal creatures emerging from beneath the bridge. A sight you won’t want to miss!

6th Street Experience
A stroll down the city’s famous 6th Street places visitors in the midst of some 50 nightclubs and restaurants, with live music offerings of every genre and a host of colorful street characters. While in Austin, make time to see the hilarious Esther’s Follies, which has anchored 6th Street entertainment for more than 20 years.
Workshops and Field Trips

**WORKSHOP:** Analysis of Microbial Population Genetic Data  
**Wednesday, August 3 • 1:00 – 5:00 p.m.**  
**Sponsoring Committees:** Epidemiology, Genetics  
**Organizers:** Niklaus Grunwald, USDA-ARS, Corvallis, OR; Tobin Peever, Washington State University, Pullman, WA; Ignazio Carbone, North Carolina State University, Raleigh, NC  
**Registration Fee:** FREE

Analysis of population genetic data remains challenging. This workshop will focus on the kinds of analyses typically done by plant pathologists and microbiologists. It will cover analyses of data from haploid and diploid populations with dominant or codominant marker systems applicable to a range of molecular genotyping techniques (including isozymes, AFLP, RFLP, RAPD, microsatellites and SNPs). The workshop will include estimation of allele frequencies, inferences about Hardy-Weinberg and linkage disequilibrium, characterization of population structure, and estimation of population parameters such as mutation, recombination, and gene flow. More recent techniques in population genetic data analysis and parameter estimation, including coalescence, gene genealogies, and Bayesian analysis are introduced. Participants will receive information to gain hands-on experience with various software packages for population genetic data using datasets provided by the instructors. Workshop enrollment is limited to 40 participants. See #20 on the registration form.

**FIELD TRIP:** Forest Pathology  
**Friday, July 29 – Saturday, July 30 • Departing July 29 at 7:30 a.m., Returning July 30 at 5:00 p.m.**  
**Organizer:** David Appel, Texas A&M University, College Station, TX  
**Registration Fee:** $120

The field trip takes place in the beautiful Edward’s Plateau region of central Texas. This region encompasses an extremely unique ecosystem comprised of highly dissected limestone hills and valleys, vast live oak savannahs, and interesting flora and fauna. Within this ecosystem, a destructive oak wilt epidemic has developed that has made this disease recognized as the most serious plant disease in the state. The trip starts on Friday morning in Austin with a visit to the Lady Bird Johnson Wildflower Center for orientation presentations on oak wilt and the Hill Country ecology. Further stops on Friday include a large oak wilt center north of Austin and a vineyard to discuss Pierce’s disease of grapes, oaks and other ornamentals. Friday concludes in Fredericksburg with a barbeque dinner, music, and country hospitality in nearby Leukench. Depending on conditions, Saturday we will see the culture of and disease problems in Afghan Pine and Leland Cypress Christmas tree plantations. Pecan improvement efforts, pecan scab, and oak wilt control measures will also be viewed. The trip concludes in Austin late Saturday afternoon. Attendance is limited to 50 participants. Pre-registration is required. See #2 on the registration form. NOTE: Participants are required to make their own reservations at the Fredericksburg Inn & Suites for Friday night no later than June 29. Visit http://meeting.apsnet.org for details.

**WORKSHOP:** First Steps in a Successful Job Search in Industry: Writing the Resumé, Finding the Opening, and Fine-Tuning Interview Skills  
**Saturday, July 30 • 2:00 – 6:00 p.m.**  
**Sponsoring Committee:** Office of Industry Relations  
**Organizer:** Roger Kaiser, Bayer CropScience, USA, Research Triangle Park, NC  
**Registration Fee:** $30

Offered primarily to graduate students, post-docs, and student advisors, each student will identify three personal strengths and develops a resumé that sells these strengths to a prospective employer. Hands-on training will be provided for organizing the job search, networking with other professionals, matching the resumé to the advertised job requirements, and sharpening interview skills. The workshop focuses on identifying accomplishments in your past employment and educational experience that will fit the needs of a potential employer. Each student will write and edit his/her own resumé, so bring all relevant information. See #7 on the registration form.

**WORKSHOP:** Identification of Fungi Involved in Sick Building Syndrome  
**Saturday, July 30 • 8:00 a.m. – 12:00 p.m.**  
**Sponsoring Committees:** Scientific Programs Board, Joint Committee of Women in Plant Pathology and Cultural Diversity  
**Organizer/Speaker:** Mani Skaria, Texas A&M University, Weslaco, TX  
**Registration Fee:** $75

This workshop includes PowerPoint and DVD presentations on the identification of fungi involved in sick building syndrome. Topics include building inspections, sampling techniques, mold growth areas, some misconceptions, industry standards, tools, legal issues, building construction, and solutions to the problem. Several case studies will

**WORKSHOP:** Blazing a Career Path in Plant Pathology  
**Saturday, July 30 • 8:00 a.m. – 12:00 p.m.**  
**Sponsoring Committee:** Placement, Joint Committee on Women in Plant Pathology and Cultural Diversity  
**Organizers:** Anne DeMarsay, Rutgers University, Chatsworth, NJ; Camilla Yandoc, USDA-ARS, Fr. Pierce, FL; John Bowman, Development Alternatives, Inc., Bethesda, MD; Jodi Creasap, Cornell University, Geneva, NY; Shaunta Hill, Michigan State University, East Lansing, MI  
**Registration Fee:** $30

In this workshop plant pathologists who have forged successful and rewarding careers in unusual places let you in on their secrets. Graduate students, postdocs, early career professionals, or persons ready for a change will discover what it takes to succeed in a non-traditional career. APS members John Bowman (international), Chris Wozniak (government), Rami Soufi (industry), and Chris Becker (private practice) talk about their journeys: how they chose their career paths, how they found or created jobs, and what assets—personal qualities, skills or experiences—helped them to succeed. Workshop participants will meet in small groups to discuss opportunities, potential pitfalls, and success factors. Each group will include plant pathologists from non-traditional organizations who offer additional information and perspectives. The workshop concludes with a panel discussion. Attendance is limited to 40 participants. Pre-registration is required. See #5 on the registration form. For more information, contact Anne DeMarsay at demarsay@aesop.rutgers.edu.
be discussed involving diverse type of buildings and occupants. This is a condensed version of a graduate course, “Mold, Plants, Buildings, and Public Health,” taught by the organizer. For a course outline, see http://primera.tamu.edu/kcchome/staff/cb.pdf. Attendance is limited to 75 participants. Pre-registration is required. See #4 on the registration form.

FIELD TRIP: Ornamental Disease Tour
Saturday, July 30 • Departing 7:30 a.m., Returning 6:00 p.m.
Sponsoring Committee: Diseases of Ornamental Plants
Organizers: Larry Barnes, Texas A&M University, College Station, TX; Stephen Wegulo, University of California, Riverside, CA
Registration Fee: $40

The ornamental tour begins with a trip to San Antonio. Although one of the most rapidly growing areas in Texas, it still has important agricultural production, including greenhouse and nursery production. Tour stops will include Mortellaro’s Nursery in Shertz, which began as a backyard nursery and now comprises over 70 acres of tree, shrubs, ground cover, and color; Peterson Brothers Nursery, a bedding plant operation that retains mostly peat pot production and hand-seeded flats; ColorSpot Nurseries, one of the largest national ornamental producers with over 587 acres; and Klepac Greenhouses, Blanco, a 10-acre production facility situated on the Blanco River that grows florist-quality blooming plants, tropical foliage, and seasonal holiday crops. Attendance is limited to 50 participants. Preregistration is required. See #3 on the registration form.

WORKSHOP: Nonparametric Analysis of Ordinal Data from Designed Experiments
Saturday, July 30 • 2:00 – 6:00 p.m.
Sponsoring Committees: Crop Loss Assessment and Risk Evaluation, Epidemiology
Organizers: Denis Shah, NYSAES, Geneva, NY; Larry Madden, Ohio State University, Wooster, OH
Registration Fee: FREE

Disease severity is often measured on an ordinal rating scale as opposed to a continuous (metric) scale, eg, 0 = no symptoms, 1 = slight chlorosis of lower leaves, 2 = extensive chlorosis of lower leaves and some chlorosis of upper leaves, 3 = severe chlorosis of upper leaves and stunting of plants, 4 = dead or nearly dead plants. Ordinal data are most suitably analyzed nonparametrically, but in the past researchers were limited to use of relatively simple experimental designs (for example, a one-way layout and randomized complete block) in order to perform appropriate analyses. Recent developments in statistical theory and methodology have greatly expanded nonparametric analyses to higher level designs (for example, two-way and three-way factorial layouts, split plots, and repeated measures). This workshop covers some of the basic concepts involved in the new nonparametric procedures. The speaker illustrates how these procedures can be implemented using SAS and explains how to interpret the output using real datasets. This session continues the series of workshops on “bringing statistical analysis to the masses.” All registrants must bring a laptop computer with version 8 or higher of SAS installed. The workshop is limited to 40 participants. Preregistration is required. See #8 on the registration form.

2005 APS Annual Meeting Exhibitors
Discover the latest products and services available to the industry. The following suppliers will be available to answer your questions and offer innovative suggestions. Make plans to view the latest technology in plant pathology, Sunday, July 31 – Tuesday, August 2, in the Exhibit Hall.

Agdia, Inc.
30380 County Rd. 6, Elkhart, IN 46514; Phone: +1.574.264.2014, Fax: +1.574.264.2153, Website: www.agdia.com, E-mail: shindman@agdia.com. Products or Services: Agdia celebrates close to 25 years of continuous service, supplying diagnostic test kits, reagents, and services to the world’s agricultural industry. Its products and services include tests in various formats for the detection of plant pathogens, transgenic plant traits, and plant growth hormones. 2005 brings new additions to the Agdia lines of PathoScreen® kits, reagent sets, ImmunoStrip® tests, PCR tests, and testing services.

Arvesta Corporation
100 First St., Suite 1700, San Francisco, CA 94105; Phone: +1.415.536.3480, Fax: +1.415.778.4849, Website: www.arvesta.com. Products or Services: Arvesta Corporation, a group member of Arysta LifeScience, is an entrepreneurial provider of unique crop protection solutions, such as ELEVATE®, CAPTEVATE™, EVEREST™, and chloropicrin. For further information about Arvesta Corporation, please visit the company’s website at www.arvesta.com.

BASF
26 Davis Dr., Research Triangle Park, NC 27607; Phone: 1.800.326.1810, Fax: +1.919.547.2433, Website: www.basf.com.

Bayer CropScience
PO. Box 12014, Research Triangle Park, NC 27709; Phone: +1.919.549.2952, Fax: +1.919.549.3952, Website: www.bayercropscienceus.com, E-mail: lorianne.fought@bayercropscience.com. Products or Services: Bayer CropScience AG is one of the world’s leading innovative crop science companies in the areas of crop protection, nonagricultural pest control, seeds, and plant biotechnology. The company offers an outstanding range of products and services for modern, sustainable agriculture and for nonagricultural applications. Bayer CropScience has a global workforce of about 19,000 and is represented in more than 120 countries, ensuring proximity to dealers and consumers. For more information about Bayer CropScience LP, please visit www.bayercropscienceus.com.

Blackwell Publishing
350 Main St., Malden, MA 02148; Phone: +1.781.388.8250, Fax: +1.781.338.8470, Website: www.blackwellplantsci.com, E-mail: sfagan@bos.blackwellpublishing.com. Products or Services: Blackwell is a leading publisher in the plant sciences. Visit our booth at APS 2005 to browse our selection of phytopathology publications and take advantage of our 20% discount on books, including Vegetation Ecology, edited by Eddy van der Maarel, and Mechanisms in Plant Development, by Ottoline Leyser. We will also have free sample copies and greeting cards from our journals, including Plant Pathology, Molecular Plant Pathology, Journal of Phytopathology, Plant Biotechnology Journal, New Phytologist, and Forest Pathology, plus many more plant science, agriculture, and microbiology titles. Visit us at www.blackwellplantsci.com.

Exhibitors continued on page 94
Phytopathology News 93
**Campbell Scientific, Inc.**

815 W. 1800 N., Logan, UT 84321-1784; Phone: +1.435.753.2342, Fax: +1.435.750.9540, Website: www.campbellsci.com, E-mail: betsy@campbellsci.com. *Products or Services:* Visit Campbell Scientific and see our latest datalogger design—the new CR1000 Datalogger. The CR1000 is programmed in CRBasic, a flexible programming language and uses our PakBus® communication protocol. The CR1000 offers several hardware advances over its predecessor, the CR10X. Our systems directly measure most commercially available sensors and feature low power usage. Our instrumentation is known for its flexibility, precision measurements, and dependability.

**CAST-The Council for Agricultural Science & Technology**

4420 W. Lincoln Way, Ames, IA 50014; Phone: +1.515.292.2125, Fax: +1.515.292.4512, Website: www.cast-science.org. *Products or Services:* The Council for Agricultural Science and Technology (CAST) was organized in 1972 as a nonprofit organization to provide a scientific voice for agriculture, food, and environmental issues. Today, CAST is a consortium of 37 scientific societies whose cumulative membership represents more than 170,000 scientists. CAST assembles, interprets, and communicates credible, science-based information regionally, nationally, and internationally to legislators, regulators, policymakers, the media, the private sector, and the public. Credible and scientific information is needed to make sound policy decisions, and CAST helps to provide that information. To learn more about CAST, please visit www.cast-science.org or contact the CAST Staff.

**Cerexagri, Inc.**

Suite 402A, 630 Freedom Business Center, King of Prussia, PA 19406; Phone: +1.610.491.2872, Fax: +1.610.491.2850, Website: www.cerexagri.com, E-mail: beth.sears@cerexagri.com. *Products or Services:* Cerexagri, headquartered in King of Prussia, PA, is a global crop protection company marketing a diverse line of pre- and postharvest agricultural chemicals. Available preharvest products include systemic and protectant fungicides for both specialty crops, such as tree fruits, tree nuts, citrus, and vegetables, as well as row crops (corn, dry beans, peanuts, soybeans, and wheat). Fungicide products include Tospin M, Pencozeb (mancozeb), manebe, ziram, Cuprox Dispers, Cuprofex MZ Dispars, and Microthiol Dispers.

**Conviron**

590 Berry St., Winnipeg, MB R3H 0R9, Canada; Phone: 1.800.363.6451, Fax: +1.204.786.7736, Website: www.conviron.com, E-mail: joe@conviron.com. *Products or Services:* Conviron has been a leading supplier of controlled environment products for over 39 years and is the only plant growth-chamber manufacturer certified as an ISO 9001 company for the establishment of their quality management program. All standard products are also CSA/NRTL certified as meeting all OSHA electrical safety standards. Our extensive product line includes plant growth chambers, tissue culture chambers, seed germinators, incubators, research greenhouses, and related products for the precise control of temperature, relative humidity, CO₂ and light intensity. Host computer systems allow remote programming and monitoring of all environmental control parameters.

**DuPont Crop Protection**

Chesnut Run Plaza, 705/GS38, Wilmington, DE 19880-0705; Phone: 1.800.441.7515, Website: www1.dupont.com, E-mail: info@dupont.com. *Products or Services:* DuPont puts science to work by creating sustainable solutions essential to a better, safer, healthier life for people everywhere. Operating in more than 70 countries, DuPont offers a wide range of innovative products and services for markets including agriculture, nutrition, electronics, communications, safety and protection, home and construction, transportation, and apparel. Our ability to adapt to change and our foundation of unending scientific inquiry has enabled DuPont to become one of the world’s most innovative companies. But, in the face of constant change, innovation and discovery, our core values have remained constant: commitment to safety, health, and the environment; high ethical standards; and treating people with respect.

**ENCONAIR Ecological Chambers Inc.**

477 Jarvis Ave., Winnipeg, MB R2W 3A8, Canada; Phone: +1.204.589.8900, Fax: +1.204.582.1024, Website: www.enconair.com, E-mail: wporter@enconair.com. *Products or Services:* ENCONAIR will exhibit one of their modern and popular “Bigfoot” growth chambers for plant pathology research. Come by and pick up the latest literature on our expanding range of ENCONAIR chambers and rooms—and be sure to tell us about any new features you would like to have on your next chambers!

**Environmental Growth Chambers**

510 E. Washington St., Chagrin Falls, OH 44022-4448; Phone: 1.800.321.6854, Fax: +1.440.247.8710, Website: www.egc.com, E-mail: ssriggs@egc.com. *Products or Services:* Environmental Growth Chambers (EGC) has the largest selection of plant growth chambers of any company worldwide. We also produce controlled environmental rooms, tissue culture chambers, lighted and refrigerated biological incubators, shelf-lighted rooms, gas exchange chambers, hydroponics systems, Day-lit chambers, and Root Zone cabinets. Please stop by and discuss your upcoming project requirements. Also visit www.egc.com.

**Fluence/Agrichem**

5 S. Peoria St., Suite 215, Louisburg, KS 66053; Phone: +1.913.837.3089 or 1.866.309.8600, Fax: +1.913.837.5389, Website: www.agrichem.com.au, E-mail: wstringfellow@earthlink.net. *Products or Services:* Fluence/Agrichem based in Loganholme, Australia, with offices in six other countries, is the world’s leading manufacturer of phosphate-based fungicides, with Agri-Fos® and Reliant® fungicides and Stress Phiter fertilizers. Agrichem also markets Pentra Bark®, bark penetrating surfactant technology from Quest Products Corp. that enables treatment of tree crops with fungicides, insecticides, plant growth regulators, without foliar application, root injection, or soil drenching through a patented process of basal bark application. Agri-Fos® fungicide is currently labeled on some 140 different crops for Phytophthora, including Sudden Oak Death and Beech Decline, *Pythium*, anthracnose, scab/black spot, and a number of other pathogens.

**Fungicide Resistance Action Committee: FRAC**

Gog Magog House, 263A Hinton Way, Great Shelford, Cambridge CB2 5AN, United Kingdom; Phone: +44 1223 841724, Website: www.frac.info, E-mail: phil.e.russell@btinternet.com. *Products or Services:* The problem of fungicide resistance has increased since the advent of highly effective compounds with specific sites of action. Experience has shown that although these compounds may be prone to resistance their effectiveness can be safeguarded by appropriate resistance management strategies. The purpose of FRAC is to provide fungicide resistance management guidelines to prolong the effectiveness of “at risk” fungicides and to limit crop losses should resistance occur. Further, FRAC aims to stimulate collaboration with universities, government agencies, advisors, extension workers, distributors, and farmers to promote effective strategies. Go to www.frac.info for more information.

**Gylling Data Management, Inc.**

405 Martin Blvd., Brookings, SD 57006; Phone: +1.605.693.4150, Fax: +1.605.693.4180, Website: www.gdmdata.com. *Products or Services:* Gauging the need for biological information, including area-monitoring and crop evaluation data, is required for effective pest and disease management. Gylling Data Management provides a computerized system that utilizes remote data collectors (nodes) to collect data that is then transmitted to a central computer for processing and analysis. This system can be deployed in a short period of time and is simple to use. Data collection hardware is already in place in most areas and can be used for additional purposes. The GDM system allows quick and accurate data collection, with minimal expense.
Phytophthora

Dr. Gloria Abad gloria_abad@ncsu.edu.

Molecular Identification of the Straminipiles

Phytophthora the “Second International Workshop for the Morphological and Molecular Identification of the Straminipiles”.

The product is unique in that it functions both as a fungicide and insecticide, effective on species that would normally require different products for control. It is effective against different stages of the life cycle of pests, from the egg to the mature stages of insects and from spores to mycelia in fungi. PREV-AM® is a “biorational” pesticide manufactured by ORO AGRI, INC.

The product is unique in that it functions both as a fungicide and insecticide, effective on species that would normally require different products for control. It is effective against different stages of the life cycle of pests, from the egg to the mature stages of insects and from spores to mycelia in fungi. PREV-AM® is a “biorational” pesticide manufactured by ORO AGRI, INC.

PPPIL-Plant Pathogen Identification Laboratory

Department of Plant Pathology, North Carolina State University, B29 Room USTL Building, Raleigh, NC 27695; Phone: +1.919.515.3825, Fax: +1.919.515.7716, Website: www.ncsu.edu/ppil, E-mail: gloria_abad@ncsu.edu. Products or Services: PPPIL is a service center providing morphological and molecular identification of fungi and straminipiles for research and extension programs locally, nationally, and internationally. PPPIL uses conventional and modern technologies for fast identification to genus, species, or subspecies levels. The laboratory specializes in the identification of Colletotrichum, Fusarium, Phytophthora, Pythium, Rhizoctonia, and other genera. PPPIL also offers services for the identification of bacteria with 16S rRNA gene sequencing analysis. PPPIL is working to promote and enhance international collaboration in the area of fungi and straminipiles identification through the Plant Pathogen Identification Collaboratory (laboratory without walls) (PPPIL-PPI) with international liaisons. At present we are developing collaboration with scientists in Japan, Spain, and Latin and Central America. Among the important activities of the PPPIL was the organization of the “First International Workshop for the Morphological and Molecular Identification of the Straminipiles Phytophthora and Pythium” in 2004. The PPPIL is proud to announce the “Second International Workshop for the Morphological and Molecular Identification of the Straminipiles Phytophthora and Pythium” to be held May 23–27, 2006. For more information contact Dr. Gloria Abad gloria_abad@ncsu.edu.

National Plant Diagnostic Network

Michigan State University, Plant Pathology Department, 107 Ctr. for Integ. Plant Sys., East Lansing, MI 48824-1311; Phone: +1.517.353.8624, Fax: +1.517.353.1781, Website: www.NPDN.org, E-mail: hammers1@msu.edu. Products or Services: The National Plant Diagnostic Network (NPDN) was created to enhance national security for plant agriculture by quickly detecting introduced pests and pathogens. The NPDN is a consortium of land grant university plant disease and pest diagnostic facilities across the United States. Since its inception in 2002, the NPDN has worked to improve diagnostic infrastructure and enhance the ability to detect pests and pathogens through the training of first detectors. It has run many successful exercises on the detection, diagnosis, and information flow for important diseases. Visit the NPDN booth to obtain additional updates on the current and future activities of the network.

ORO AGRI, INC.

990 Trophy Club Dr., Trophy Club, TX 76262; Phone: +1.817.491.2057, Fax: +1.214.722.0259, Website: www.oroaagi.com, E-mail: mrussell@oroagri.com. Products or Services: PREV-AM® is a “biorational” pesticide manufactured by ORO AGRI, INC.

BIOREBA develops polyclonal and monoclonal antibodies for ELISA testing and offers complete ready-to-use kits. BIOREBA’s R&D laboratory develops and produces reagents for the detection of plant pathogens. BIOREBA products are manufactured in Switzerland under strict quality control.

USDA-APHIS-PPQ-Center for Plant Health Science and Technology

1730 Varsity Dr., Suite 400, Raleigh, NC 27606; Phone: +1.919.855.7400, Fax: +1.919.855.7480, Website: www.cphst.org, E-mail: CPHST@aphis.usda.gov. Products or Services: CPHST identifies and evaluates pathways used by invasive plant pests and weeds that threaten American agriculture and natural resources. CPHST assesses the potential risks these organisms pose to food, fiber, and the environment. Analyses of these pathways lead to the development and adaptation of technologies for the detection, identification, and mitigation of exotic pests. Additionally, CPHST scientists ensure that effective and efficient methods, protocols, and equipment are used in APHIS programs. CPHST program areas: agricultural quarantine inspection and port technology, integrated pest management and emergency programs, molecular diagnostics and biotechnology, risk and pathway analysis, and survey, detection, and identification.

Interested in Exhibiting?

Connect with your customers at the 2005 APS Annual Meeting

Space is Limited—Reserve Your Exhibit TODAY!

http://meeting.apsnet.org/exhibitors or contact Rhonda Wilkie • rwilkie@scitoc.org • +1.651.994.3820

Phytopathology News 95
Barry Pryor, Department of Plant Pathology, University of Arizona, visited the Department of Plant Pathology, Washington State University, February 28–March 1. He visited extensively with state and USDA faculty and presented a seminar titled “Alternaria, Arabidopsis and asthma: Building models of fungal interaction in plant and animal systems.” The second part of Pryor’s visit was spent examining Alternaria species and discussing Alternaria systematics with Tobin Peever and graduate student Marion Andrew.

Lori Carris, Department of Plant Pathology, Washington State University, visited the Tianjin Entry-Exit Inspection and Quarantine Bureau of the People’s Republic of China in December 2004. The purpose of the weeklong visit was to establish a collaboration with scientists at the bureau identifying smut spores in grass seed and grain shipments from the United States. Carris’ visit was hosted by Guoming Huang, vice director and senior agronomist at the bureau.

Keri Druffel, research technician III in Hanu Pappu’s program in the Department of Plant Pathology, Washington State University, won the 2005 WSU Employee Excellence Award. The annual award, given to one person in the technical staff category, is extremely competitive and is one of the most prestigious awards at WSU and is open to all units in the Pullman, Spokane, Tri-cities, and Vancouver campuses. Druffel was recognized at a special university-wide ceremony in April by university President Lane Rawlins. Druffel is known for her dedication to her job, her untiring efforts to achieve excellence in her duties, pleasant demeanor, and willingness to go above and beyond the call of duty in helping others in the department. Some comments from nomination statements include “Keri has an unlimited source of energy”; “She is genuinely interested in science and in the advancement of science”; “Keri is a problem solver and does not stop until she finds an answer”; and “She is a master of multitasking and takes the concept to a new level.”

Judith K. Brown, professor, Department of Plant Sciences, University of Arizona, was the recipient of the 2005 Women’s History Award for Professional and Academic Leadership from the College of Agriculture, Human and Natural Resource Sciences, Washington State University (WSU), Pullman. Brown received her M.S. degree from the Department of Plant Pathology, WSU, in 1981 and a Ph.D. degree from the University of Arizona. The nomination statements noted her commitment to student advising and mentoring, her long-standing interest in training and mentoring young scientists from developing countries, and her contributions to the advancement of knowledge on whitefly-transmitted Gemini viruses. Letters of support described Brown as someone whose availability, benevolent personality, and constant enthusiasm provide compelling evidence that she truly cares about her students and desires to see them succeed.

Kenneth W. Seebold, Jr. recently joined the Department of Plant Pathology, University of Kentucky, as an assistant extension professor. Seebold received his B.S. (integrated pest management) and M.S. (plant pathology) degrees from Auburn University, the latter under the direction of Paul A. Backman. Seebold was subsequently awarded a Ph.D. (plant pathology) degree by the University of Florida, where his major professors were Lawrence E. Datnoff and Thomas A. Kucharek. From 1998 to 2000, Seebold was fungicide project leader at Uniroyal Chemical Co., Inc., Bethany, CT. Thereafter, he served as an assistant professor at the University of Georgia’s Coastal Plain Experiment Station in Tifton. His research programs there concerned the ecology, epidemiology, and control of soilborne and fungal diseases of cotton and vegetables. Although primarily an applied researcher, Seebold interacted with various growers, in the process gaining extension experience. At Kentucky, Seebold will develop a comprehensive extension and applied research program, focusing on tobacco and vegetables. His teaching duties will likely center on plant disease diagnosis and other practical aspects of the discipline. A Kentuckian by birth, Seebold brings breadth and depth of expertise to his new responsibilities for his native commonwealth.

Several students recently completed their degrees in plant pathology at the University of Minnesota.

Claudia Castell-Miller completed the requirements for a Ph.D. degree under the direction of Deborah Samac. Her thesis was titled “Taxonomy, Molecular and Pathogenic Variability of Phoma medicaginis and Visualization of the Infection Process on Alfalfa with Differing Degrees of Resistance to Spring Black Stem and Leaf Spot.” She is currently doing postdoctoral research with Brian Steffenson at the University of Minnesota on genetic analysis of a QTL conferring adult plant spot blotch resistance in barley and genetics of virulence of Cochliobolus sativus in barley.

Maria Sanchez received a M.S. degree in plant pathology with an emphasis in molecular plant pathology under the direction of James Braden. Sanchez is the first student to matriculate through this new program at the University of
Jason Smith in Chesterfield, MO. is currently employed by Monsanto Company. Species Belonging to Series "Bulbocastana." She is working on pathogens of ginseng. Rubella Goswami conducted Ph.D. degree research with H. Corby Kistler on “Genomic Analysis of Host–Pathogen Interactions Between Fusarium graminearum and Its Graminaceous Hosts.” She is currently a postdoctoral research scientist with Zamir Punja at Simon Fraser University in Burnaby, British Columbia, working on Fusarium pathogens of ginseng.

Classifieds

Classified Policy

Job Listings
You can process your job listing directly through the APS online job placement service at www.apsnet.org/careers/jobpost.asp. Your posting will be live within 3-5 business days and will remain on the website for up to three months or until a listed closing date, at which point it will drop off the listing. 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 also included in Phytopathology News, simply select the option on the online form (there is an additional $30 fee). If you have any questions contact the APS Placement Coordinator (apsplacement@scisoc.org). To post in the newsletter only, see column-inch pricing below.

Other Classifieds
You can also publish for sale items, materials available, or other non-job related classified items in Phytopathology News. The fee is based on one-column inch pricing. The charge for a standard format classified listing is $70 per column-inch. The charge for a display classified ad (with logo, border, or other artwork) is $100 per column-inch. Materials must be received on the first day of the month prior to the requested month of publication. Send your listing to the Phytopathology News Editor (PhytoNewsEditor@scisoc.org).

FOR SALE
Annual Review Phytopathology, Complete vols. 1–42. Mostly excellent condition, few show some wear. Best offer over $400 plus shipping. Contact: robert.stack@ndsu.nodak.edu.

Research Pathologist
The U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), U.S. Vegetable Laboratory, Charleston, SC, is seeking a permanent full-time scientist to research to develop control methods for diseases of watermelon, especially the emerging disease known as vine decline. Research assignment will include the etiology of diseases, development of pathogen identification procedures, characterization of the pathogenic and genetic variability in disease-causing organisms, identification of resistances to diseases in watermelon, and characterization of the nature, durability, specificity, and genetics of identified resistances to facilitate their incorporation into improved watermelon germplasm. Salary: $50,541 to $93,643. U.S. citizenship is required. USDA/ARS is an equal opportunity employer and provider. Closing Date: June 10, 2005 (This closing date is not adjustable.) Contact: Susan Hammontree, USDA, ARS, U.S. Vegetable Laboratory, 2700 Savannah Hwy., Charleston, SC 29414 USA. Fax: +1.843.573.4715; E-mail: shammontree@saa.ars.usda.gov; Phone: +1.843.402.5300. For more information on this position visit: www.afm.ars.usda.gov/divisions/hrd/.

Classifieds continued on page 98

LIFE IN ANCIENT ICE
Edited by John D. Castello and Scott O. Rogers

Life in Ancient Ice presents an unparalleled overview of current research into microbial life in ancient glacial ice and permafrost. Based on a National Science Foundation–sponsored symposium organized by the editors in 2001, it includes twenty chapters by internationally renowned scientists, including Russian experts whose decades of work has been rarely available in English.

“This authoritative collection of ‘cold facts’ is the first of its kind…. The implications of this research are broad, reaching from sub-glacial lakes in Antarctica to possible life on Mars, Europa, and beyond…. It is a fascinating story.”
—David M. Karl, University of Hawaii

Cloth $69.50

100 Years of Excellence

Celebrating 100 Years of Excellence
PRINCETON University Press
800-777-4726
Read excerpts online
www.pup.princeton.edu

Phytopathology News 97
Classifieds continued from page 97

Post-Doctorate Research Associate
The Department of Plant Pathology at the University of Georgia’s Coastal Plain Experiment Station in Tifton is seeking applicants for the position of post-doctoral research associate. The incumbent will oversee and conduct the day-to-day operations of a USDA-CREES-funded grant to investigate the amelioration of soilborne pests in *Brassica* rotations in vegetable plasticulture. The incumbent will be expected to cooperate with a multidisciplinary team of researchers, including pathologists, nematologists, weed scientists, horticulturalists, and agronomists. In addition, the incumbent will be expected to conduct innovative research on pesticide delivery systems. Duties will include enumeration of soilborne fungi, nematodes, and weeds, as well as conducting agronomic crop evaluations. A successful candidate will also be expected to prepare reports on collected data and submit findings for publication, as well as present information at national conferences and grower meetings. Successful candidates must possess a Ph.D. degree in plant pathology or related field; excellent written and oral communication skills; area of demonstrated research expertise; familiarity with techniques associated with soilborne disease research; excellent organizational skills; and the ability to cooperate with multidisciplinary team of scientists. **Salary:** $35,000. **Closing Date:** July 1, 2005 (This closing date is open until the position is filled.) Submit resume, letter of application, university transcripts and three letters of recommendation. **Contact:** Alex Csinos, University of Georgia, Plant Pathology, P.O. Box 748, Tifton, GA 31794 USA. **Fax:** +1.229.386.7285; **E-mail:** csinos@tifton.uga.edu; **Phone:** +1.229.386.3373. **For more information on this position visit:** www.plant.uga.edu/

CE Advisor – Vegetable Crops
The vegetable crops advisor in San Joaquin County is a high-profile position due to the wide range of major vegetables produced and the location as a hub to domestic distribution and international exports. Vegetable production is county wide but gradually concentrates toward the west side of the county and into the Delta Region, which is ideally suited and recognized for its rich organic soils, water availability, and mild climate. The San Joaquin Delta is also the central distribution point for 75% of the state’s water and one of the most highly contested areas in regard to maintaining water quality and quantity. Production agriculture and water quality issues will be a major focus for the position. The focus for the vegetable crops advisor position is to conduct and coordinate an educational and applied research program encompassing vegetable production. Additionally, integrated within the scope of vegetable research will be research on timely issues that target water quality. Other program emphasis will be on variety development, plant protection, nutrient budgeting, postharvest handling, marketing and economics of the area’s major vegetables. The purpose of this position is to generate and/or supply critically needed information to ensure and maintain an economically vibrant and ecologically prudent vegetable crop industry in San Joaquin County. The position will work collaboratively with campus-based department AES faculty, extension specialists, and other farm advisors. Activities of the overall program are directed primarily toward growers, processors, shippers, and allied agribusiness personnel in San Joaquin County. A M.S. degree in a biological, agricultural, or plant science, preferably specializing in vegetable crops, is required. Soil and water coursework and/or experience is required. Post-graduate agricultural experience in applied research and education is desired. To be successful in the position, the following attributes are desirable: ability to adapt quickly to changing program priorities and situations; working knowledge of biological and water sciences and their application to production agriculture; ability to relate research-based information to the public and conduct issue-focused research; excellent oral and written communication skills and the ability to communicate with varied audiences; ability to work with and to motivate people; ability to teach effectively; ability to plan and organize with skills necessary to conduct multiple projects simultaneously; self-motivation skills; ability to work both independently and as a team member; and interpersonal skills to establish and maintain positive working relationships with clientele, public agencies, and academic colleagues. **Salary:** $40,600 to $44,700. **Closing Date:** June 1, 2005 (This closing date is open until the position is filled.) The full position vacancy announcement and required academic application are available at http://cvr.ucdavis.edu. Complete packets must be received by June 1, 2005. Refer to position #ACV 05-05. **Contact:** Cindy Inouye, ANR Central Valley Region, 9240 S. Riverbend Ave., Parlier, CA 93648 USA. **Fax:** +1.559.646-6513; **E-mail:** cinouye@uckac.edu; **Phone:** +1.559.646.6535. **For more information on this position visit:** http://cvr.ucdavis.edu. ■
Calendar of Events

APS Sponsored Events

June 2005
27-July 1 — Caribbean Division Meeting. San Jose, Costa Rica. www.apsnet.org/members/div/caribbean
28-July 1 — Pacific Division Meeting (in conjunction with the Annual Western Soil Fungus Conference). Portland, Oregon. www.apsnet.org/members/div/pacific/
29-July 1 — North Central Division Meeting. (Joint with Canadian Phytopathological Society–Ontario Region) Windsor, Ontario. www.oardc.ohio-state.edu/ncaps/

October 2005

November 2005

Upcoming APS Annual Meetings
July 30-August 3, 2005 — Austin, TX
July 29-August 2, 2006 — Quebec City, Quebec, Canada
July 28-August 1, 2007 — San Diego, CA
July 26-30, 2008 — Minneapolis, MN (Centennial Meeting)
August 1-5, 2009 — Portland, OR
August 7-11, 2010 — Nashville, TN

Other Upcoming Events

June 2005
17-21 — 9th Verticillium Symposium. Monterey, CA
26-July 1 — Fusarium Laboratory Workshop. Manhattan, KS. www.oznet.ksu.edu/plantpath/events/fusarium

July 2005
12-15 — Annual Meetings of the American Research and Education Society and the National Peanut Board. Portsmouth, Virginia. www.aprex.okstate.edu/#meetings
27-29 — 5th International PENSA Conference on Agri-food Chains/Networks Economics and Management. Ribeirão Preto, Brazil. www.sober-ipc.com.br

August 2005
8-12 — International Symposium on Buckwheat and the Dietary Culture. Xichang, China.

September 2005
12-14 — Xth Conference on Virus Diseases of Gramineae in Europe. Louvain-la-Neuve, Belgium. (bragard@fmy.ucl.ac.be)

October 2005
22-26 — III Silicon in Agriculture Conference. Uberlândia, Minas Gerais, Brazil. www.silicon.ufu.br
23-26 — 1st International Symposium on Biological Control of Bacterial Plant Diseases. Darmstadt, Germany. (symposium2005@bba.de)

November 2005
7-10 — ASA-CSSA-SSSA International Annual Meetings. Salt Lake City, UT

December 2005
8-10 — Asian Conference on Emerging Trends in Plant–Microbe Interactions. Chennai, India. (gmanick@vsnl.com or anandalgae@hotmail.com)
10-17 — Nematode Identification Short Course. Clemson University, Clemson, SC. http://pppweb.clemson.edu/nematode.htm

September 2006

For the most current listing, check out the APSnet event calendar at www.apsnet.org/meetings/calendar.asp.