



**Integrated Pest Management**  
*for our environment • for our future*

**7th International  
Integrated Pest  
Management  
Symposium**

***IPM on the World Stage***  
***March 27-29, 2012***  
***Memphis, Tennessee***



## *IPM on the World Stage*

**I**t is our great pleasure to welcome you to the Seventh International IPM Symposium in Memphis! Our all-volunteer planning committees have worked long and hard to bring you an exciting event focusing on solutions to global pest challenges in agriculture and communities.

The program committee has designed a format that will bring us together for stimulating plenary sessions throughout our three days together. We'll hear keynotes from international experts from government, academia, Extension and industry, interspersed with informative breakouts, poster sessions and social events.

Our goal is to send you home refreshed and invigorated by the energy created by having so many friends and colleagues in one place, and by the research, implementation and outreach challenges and opportunities we'll explore together.

We hope you will enjoy the many cultural and outdoor offerings, including the opening reception at the Memphis Rock 'n' Soul Museum and the special tours of the Memphis Zoo and Shelby Farms Park. Finally, we thank all of our sponsors, contributors, volunteers, presenters and attendees for the time and resources you have all committed to make this event possible!

Welcome and enjoy!

Margaret Appleby, Rubella Goswami, Thomas Green and Jill Schroeder  
Co-chairs, Seventh International IPM Symposium



7th International IPM Symposium  
coordinated by Online & Continuing Education

University of Illinois at Urbana-Champaign

[www.ipmcenters.org/ipmsymposium12/](http://www.ipmcenters.org/ipmsymposium12/)



# contributors and sponsors

We thank our contributors and sponsors for their generous support of IPM and this symposium.

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Exhibits are located in the Grand Lobby, on the Lobby (ground) level of the Memphis Cook Convention Center. Poster sessions, continental breakfasts, and breaks will be served in the exhibit room.

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# general information

## Registration and Information Desk

The Registration Desk will be located in the Grand Lobby, on the Lobby (ground) level of the Memphis Cook Convention Center.

The desk will be open:

Monday, March 26, 1:00–5:00 PM

Tuesday, March 27, 7:00 AM–5:00 PM

Wednesday, March 28, 7:30 AM–5:00 PM

Thursday, March 29, 7:30 AM–12:00 NOON

## Abstracts, Presentations, and Posters

Complete abstracts can be found at the Web site:  
[www.ipmcenters.org/ipmsymposium12](http://www.ipmcenters.org/ipmsymposium12)

Presentations and posters will be added to the Web site after the symposium.

## Wireless Access

Look for the network name: IPM. Password: ecological

## IPM7 Symposium App

The IPM7 Symposium mobile app was developed by the NSF Center for Integrated Pest Management (CIPM) at North Carolina State University in cooperation with the organizers of the symposium.

Both Android and iOS versions of this app are available from the Android Marketplace (Android) and from the Apple iTunes App Store (iOS).

## Poster Sessions

Two poster sessions will be held: Tuesday, March 27, 5:30–7:00 PM and Wednesday, March 28, 5:30–7:00 PM in the Grand Lobby, on the Lobby (ground) level of the Memphis Cook Convention Center. While all posters will be displayed throughout the symposium, authors are asked to be by their posters according to their final poster number: odd numbers on Tuesday and even numbers on Wednesday.

Posters can be set up beginning at 9:30 AM on Tuesday and should be in place by 5:00 PM on Tuesday. They can be

removed after the Wednesday session is over at 7:00 PM. They must be removed by noon on Thursday.

If you would like to have your poster posted on the 2012 IPM Symposium web site, copy your poster as a .pdf file and send to the symposium email address: [ipmsymposium@ad.uiuc.edu](mailto:ipmsymposium@ad.uiuc.edu).

## Poster Session Receptions

All registered participants and their registered guests are invited to attend the receptions, held during the poster sessions on Tuesday, March 27 and Wednesday, March 28 from 5:30–7:00 PM each night in the Grand Lobby, on the Lobby (ground) level of the Memphis Cook Convention Center. Hors d'oeuvres and a cash bar will be provided during the reception.

## Presenter Practice Room

If presenters need to preview their presentations, come to the Registration Desk during its hours of operation.

## Media

The Registration Desk will serve as the media desk, located in the Grand Lobby, on the Lobby (ground) level of the Memphis Cook Convention Center. Reporters and other members of the media should register.

## Session Moderators

If you have technical difficulties during your session, please find the volunteer monitors with red ribbons in the hallways or come to the Registration Desk.

## Continuing Education Credits

Sign-in sheets will be located in the sessions that qualify. Stop at the Registration Desk for more information.

## Symposium Evaluation

An online evaluation survey will be conducted after the symposium. An e-mail message will be sent to you with the details; we hope you will take a few minutes to complete the survey. Your feedback has significant impact on the Steering Committee's evaluation for this year's Symposium and planning decisions for the next.



## Monday, March 26

Title	Room	7 <sup>AM</sup>	8	9	10	11	12	1 <sup>PM</sup>	2	3	4	5	6	7	8	9
IPM CRSP Technical Meeting	L10															
Multi-Region IPM Coordinator Meeting	L2															
WERA-1017 (formerly WERA-069) Meeting	L6															
SERA-3 Meeting	L4															
NEREAP Meeting	L5															
NCERA 222 Meeting	L3															
ARM 9 Overview	L8															
Native American Small Farm Working Group	L9															
Internal EPA School IPM Meeting	L9															
<b>Tours</b>																
Memphis Zoo	Meet by registration desk in Grand Lobby															
International AgriCenter & Shelby Farms Park	Meet by registration desk in Grand Lobby															
<b>Functions</b>																
Reception at Memphis Rock 'n' Soul Museum	Transportation on own															
Registration	Grand Lobby															
		7 <sup>AM</sup>	8	9	10	11	12	1 <sup>PM</sup>	2	3	4	5	6	7	8	9

# Tuesday, March 27

Title	Room	7 AM	8	9	10	11	12	1 PM	2	3	4	5	6	7	8	9
<b>Plenary Sessions</b>																
Opening Plenary Session—Management	Ballroom B															
Plenary Session—Research	Ballroom B															
<b>Concurrent Sessions</b>																
M1 • Conducting IPM in schools demonstration projects: Perspectives and lessons learned	L2															
M2 • Capacity building and short term training: Requirements for successful technology transfer for IPM	L3															
M3 • Is IPM dead? What policymakers, taxpayers, consumers and practitioners need to know about IPM	L4															
M4 • Economics of IPM: Impact assessment, natural enemies, diffusion, and marketing	L5															
M5 • Doesn't the EPA regulate pesticide use? Why do we need the Pesticide Risk Mitigation Engine?	L6															
M6 • Managing IPM is not just bugs: An approach by two multi-disciplinary agencies—Australian vegetables and Santa Clara County	L8															
M7 • State extension IPM programs—Trials and triumphs	L9															
M8 • IPM delivery: Got an app for that?	L10															
M9 • Applying the findings and recommendations of the 2011 OECD IPM workshop at a national level	L11															
M10 • Brainstorming: Effective IPM with pesticide prohibitions	L12															
M11 • Government IPM partnerships for better public health	L13															
M12 • Adventures in community IPM: Systems that work the bed bugs out	L14															
M13 • Creative monitoring and natural resources	L2															
M14 • Marketing IPM: Integrating IPM with local, sustainable, safe and fair	L8															
M15 • Making the handoff: Moving invasive species from regulation to management	L12															
M16 • Use of weather-based pest, crop and natural resource information systems to facilitate effective IPM decision-making world-wide	L13															
R17 • Exploring the international flavors of benchmarking IPM	L2															
R18 • Impact of bioenergy crops on pests, natural enemies and pollinators in agricultural and non-crop landscapes	L3															
R19 • Rest in peace: USDA Section 406 IPM programs—research contributions of CAR, RAMP and IPM Centers	L4															
R20 • Pesticide resistance in arthropods, plant pathogens, and weeds: A growing threat to IPM and U.S. agriculture	L5															
R21 • Opportunities for public and private-sector IPM specialists to collaborate, strengthen and enhance USDA NRCS Farm Bill conservation programs for IPM	L6															
R22 • Success in integrated management of head blight of wheat in the United States	L8															
R23 • Killing two threats with one stone: The co-management of phytopathogens and food safety risks in greenhouse tomatoes	L9															
R24 • Advanced technologies in IPM programs	L10															
R25 • Development of IPM packages for vegetable crops in developing countries	L11															
R26 • Are ecologically-based IPM strategies relevant for sustainable management of virus diseases in the 21st century?	L12															
R27 • Plant health management in a thirsty world	L13															
R28 • Remote sensing and GIS applications to pest monitoring and management	L14															
R29 • Use of <i>Trichoderma</i> in agriculture in Asia	L2															
		7 AM	8	9	10	11	12	1 PM	2	3	4	5	6	7	8	9

Title	Room	7 <sup>AM</sup>	8	9	10	11	12	1 <sup>PM</sup>	2	3	4	5	6	7	8	9
M30 • IPM at the U.S. Environmental Protection Agency	L2															
R31 • The impact of invasive insect pests on IPM	L3															
B32 • Two Extension outreach projects: Adoption of proper mowing height and using educational posters on sustainable lawn care, low-input plants, and outdoor pests	L4															
<b>Poster Sessions</b>																
Poster Setup	Grand Lobby															
Poster Session—odd numbered posters	Grand Lobby															
<b>Functions</b>																
Continental Breakfast	Grand Lobby															
Luncheon and Integrated Pest Management Achievement Awards Presentation	Ballroom A															
Poster Session Reception	Grand Lobby															
<b>Related Meetings</b>																
IPM Voice	L2															
NCERA 184	L8															
WERA060	L5															
Registration	Grand Lobby															
		7 <sup>AM</sup>	8	9	10	11	12	1 <sup>PM</sup>	2	3	4	5	6	7	8	9



# Wednesday March 28

Title	Room	7AM	8	9	10	11	12	1PM	2	3	4	5	6	7	8	9
<b>Plenary Sessions</b>																
Plenary Session—Best Practices	Ballroom B															
Plenary Session—Outreach	Ballroom B															
<b>Concurrent Sessions</b>																
B33 • Integrating biological and conventional pest and disease management strategies in greenhouse and outdoor horticulture	L2															
B12 • Adventures in community IPM: Systems that work the bed bugs out	L3															
B34 • Herbicide-resistant weeds and the need for sustainable systems: The benchmark study—a field-scale multi-year, multi-state project	L4															
B35 • IPM and transgenic Bt maize: Current issues, future needs	L5															
B36 • Going green: The role of IPM in green building	L6															
B37 • Semiochemicals in IPM and semiochemical technology in IPM systems in developing countries: IPM CRSP in South Asia, West Africa and East Africa	L8															
B38 • Golf course IPM: Pushing the envelope	L9															
B39 • Biological control of ruderal species: the search for champions	L10															
B40 • Challenges and solutions for IPM in the mid-southern U.S.	L11															
B41 • Natural products for weed management	L12															
B42 • Getting results with best management practices	L13															
B43 • IPM challenges in the landscape: Implementation, establishment and evaluation	L14															
B44 • Evolving pest complexes and IPM strategies in transgenic cotton	L2															
B45 • Integrated vegetation management	L3															
B46 • Implications for “insurance is the new IPM” in field crops	L4															
B47 • Educating the next generation: Strategies to promote IPM literacy	L13															
O48 • Creating and improving stakeholder-driven IPM programs using conventional, digital and social media delivery systems	L2															
O49 • Bed bugs and book bags: Using classroom curriculum to reach the community	L3															
O50 • IPM challenges and opportunities in fruit and vegetable crops for processing: New invaders, drift, new options and novel approaches	L5															
O51 • Networking approaches for IPM research and extension	L6															
O52 • Developing and disseminating hermetic cowpea storage technology in West and Central Africa	L9															
O53 • eOrganic, the eXtension CoP for organic agriculture	L10															
O54 • Using self-assessment, surveys, and certification to document, incentivise and implement IPM in specialty crops	L11															
O55 • The role of education in IPM	L12															
O56 • Feeding 9 billion people sustainably: The case for biopesticides	L13															
O57 • Changing the product selection in retail stores—How agencies in California are working together to make green products more mainstream	L14															
O58 • Productivity increase by using IPM modules with indigenous practices for managing pests in different cropping systems	L8															
O59 • Building IPM programs for Native Americans	L12															
O60 • IPM education: Required knowledge, educational options and applications	L3															
M61 • NIFA IPM programs: Legacy and impacts	L5															
		7AM	8	9	10	11	12	1PM	2	3	4	5	6	7	8	9

Title	Room	7 <sup>AM</sup>	8	9	10	11	12	1 <sup>PM</sup>	2	3	4	5	6	7	8	9
<b>Poster Sessions</b>																
Poster Session—even numbered posters	Grand Lobby															
<b>Functions</b>																
Continental Breakfast	Grand Lobby															
Poster Session Reception	Grand Lobby															
<b>Related Meetings</b>																
School IPM Round Table Discussion	L2															
Registration	Grand Lobby															

## Thursday, March 29

Title	Room	7 <sup>AM</sup>	8	9	10	11	12	1 <sup>PM</sup>	2	3	4	5	6	7	8	9
<b>Plenary Session</b>																
Closing Plenary Session	Ballroom B															
<b>Functions</b>																
Continental Breakfast	Grand Lobby															
<b>Related Meetings</b>																
EPA Tribal Pesticide Program Council	L3															
Urban Community of Practice	L4															
Registration	Grand Lobby															

## Friday, March 30

Title	Room	7 <sup>AM</sup>	8	9	10	11	12	1 <sup>PM</sup>	2	3	4	5	6	7	8	9
EPA Tribal Pesticide Program Council	L3															



# poster titles

- P001** Tolfenpyrad: A new broad spectrum insecticide from Nichino America, Inc.
- P002** Some priority pest problems in small scale fruit and vegetable production in North Florida
- P003** A successful participatory IPM approach against *Hyposidra talaca* Wlk., a devastating pest on tea
- P004** Communicating IPM—A potato industry collaboration with McDonald's
- P005** Development of IPM technology for cumin and its evaluation in farmer participatory mode
- P006** A sentinel plot network across the southern United States: IPM to protect the U.S. soybean industry
- P007** Integrated pest management of *Ralstonia solanacearum* on tomato in Uganda
- P008** Measuring adoption of sustainable viticultural practices in the Ozark Mountain Region
- P009** Monitoring and on-farm management of rice hispa (*Diuraphis armigera*) in Karnataka, India
- P010** Mulching methods impact on herb production and weed control in a certified organic production system
- P011** Soil health and integrated pest management program for vegetables—A prescriptive approach
- P012** Suppression of Cuban slug (*Veronicella cubensis*) (Pfeifer) using select practices in the CNMI
- P013** Evaluation, validation and economic analysis of biointensive IPM in okra in India
- P014** Rangeland grasshopper IPM program makes a significant economic impact on Wyoming agriculture
- P015** Pest threat of the invasive brown marmorated stink bug to vegetable crops in the U.S.
- P016** Brown marmorated stink bug in specialty crops: Biology, ecology, and management
- P017** Extension integrated pest management coordination and support competitive grants program successes
- P018** A new paradigm in IPM education: Professional practitioners for managing a more sustainable future
- P019** Distribution of herbicide resistance in Palmer amaranth populations across North Carolina
- P020** Doesn't the EPA regulate pesticide use? Why do we need the pesticide risk mitigation engine?
- P021** Effective habitat protection: A consultative and cooperative process
- P022** Use of *Solanum torvum* as a rootstock in brinjal (*Solanum melongena* L.) to manage root-knot nematode, *Meloidogyne incognita*
- P023** Biological control of white mold of snap bean with low rate Contans application
- P024** Site-specific technology to better manage nematodes in cotton
- P025** Propagating azalea stem cuttings free of binucleate *Rhizoctonia* spp.
- P026** Seasonal dynamics of viruliferous *Thrips tabaci*, Vector of iris yellow spot virus in onion in the Pacific Northwestern USA
- P027** Effective management of *Phytophthora* blight (*Phytophthora capsici*) of peppers in Illinois
- P028** Border crop for the management of chilli pests
- P029** Habitat management to conserve wolf spiders, natural enemies of insect pests, in rice paddies
- P030** Incidence of sapota bud borer, *Anarsia achrasella* Bradley and its management
- P031** Initial response to European grapevine moth, *Lobesia botrana*, in North America
- P032** Integrated and biorational approaches to the management of major key pests of tomato and cabbage
- P033** Integration of pre-shipment hot water shower as a quarantine treatment for ornamental plants
- P034** Introduction of gall wasp (*Quadrastichus erythrinae*) tolerant plants for tribals lively hood

- P035** IPM options for *Lygus* bug management in Texas High Plains cotton
- P036** Management of pod borer, *Helicoverpa armigera* infesting chickpea with new insecticide molecules
- P037** Mediterranean fruit fly in Iran and proposal for its eradication
- P038** Responding to spotted wing drosophila—The Michigan experience
- P039** Online survey of California pest control advisers serving the almond industry
- P040** Opportunities for public and private-sector IPM specialists to enhance NRCS programs for IPM
- P041** Outcomes of Germany's national action plan on sustainable use of pesticides
- P042** Papaya mealybug on mulberry and its management through classical biocontrol
- P043** Pest management scenario under IPM in Northeastern part of India
- P044** Precision area-wide management of *Eurygaster integriceps* Put. (Hemiptera: Scutelleridae) in Iran
- P045** Pymetrozine—A novel insecticide for planthopper management
- P046** Reducing pesticide risk by integrating biopesticide tools in sustainable production systems
- P047** Agriculture and Agri-Food Canada programs in support of sustainable pest management
- P048** Seed and seed applied technologies: Integrated approaches for managing global insect and disease pests
- P049** Site specific applications via integration of existing weather networks and proven predictive models
- P050** The University of Maine Cooperative Extension strawberry IPM program
- P051** Measuring up! Involving stakeholders in assessment of an industry's IPM revolution
- P052** FAO desert locust early warning system
- P053** New Zealand and Australian regulations of generalist predators in the glasshouse industry
- P054** The red palm weevil, *Rhynchophorus ferrugineus*, and IPM
- P055** Toxicity and safety of spiromesifen 240 SC and imidacloprid 70 WG
- P056** 20 years of agricultural pesticide use data reveal dramatic reduction in broad-spectrum insecticides
- P057** Pesticide use and risks in horticultural farm enterprises in Uganda
- P058** State Phytosanitary Administration state body for implementation of IPM in the Czech Republic
- P059** Endophytic fungi from *Schinus molle* L. as new biological control agents of black bean aphid in Algeria
- P060** The continental dialogue on non-native forest insects and diseases: A new IPM venue?
- P061** Theoretical basis of pest management
- P062** School IPM program impact assessment
- P063** 2011 survey results: Tennessee's school IPM race to the top
- P064** Green Shield Certified—Authenticating real IPM service providers, programs and facilities
- P065** Larvicidal activity of selected plant extracts against *Aedes albopictus* Skuse (Diptera: Culicidae)
- P066** Bugwood Center ([www.bugwood.org](http://www.bugwood.org)) web resources to support IPM implementation
- P067** Preparing for the brown marmorated stink bug in Iowa
- P068** Protect U.S. offers new invasive species educational material for educators, clientele, and K-12
- P069** A collaborative approach to managing the threat of a new invasive pest to the BC blueberry industry
- P070** A comprehensive interdisciplinary VT Extension IPM program addressing stakeholder priorities and needs
- P071** A regional sampling network for insect pests of potato in the Columbia Basin of Washington
- P072** Influence of socioeconomic factors in usage of IPM among hot pepper producers in Uganda
- P073** Using farmer perceptions to establish an IPM research agenda for arabica coffee production in Uganda
- P074** Adoption of production and pest management practices for peanut in Ejura, Ghana
- P075** Development of a comprehensive IPM website for Virginia market type peanuts
- P076** Dairy cattle IPM outreach: NYS Integrated Pest Management in barns, on pastures, on the web
- P077** Development of an IPM curriculum and crop scouting competition for Iowa youth
- P078** Distance delivery for continuing education and characterizing Florida's licensed applicators
- P079** Ecologically-based integrated pest management packages for food security crops in Central Asia

- P080** Giving IPM a VOICE
- P081** Increasing IPM uptake among growers in southern BC—Three case studies of industry-lead outreach
- P082** Integrated pest management survey for insect and disease pests of oilseed crops in North Dakota
- P083** IPM internships—Training IPM professionals for the future
- P084** IPM of the white stem borer and root mealybugs on arabica coffee in the Mt Elgon region in Uganda
- P085** Five peas in a pod: Progress towards addressing the program emphasis areas for IPM Oklahoma!
- P086** The new IPM program at Lincoln University of Missouri, an 1890 land-grant university
- P087** Gender issues in integrated pest management (IPM) in Tajikistan
- P088** Natural enemies of vegetable crop pests workshop
- P089** NEWA resources for implementation of IPM in Lake Erie vineyards
- P090** On the road again: Taking hands-on greenhouse IPM workshops to the growers
- P091** Online educational modules for disseminating IPM information
- P092** Online phenology and infection risk modeling system—2012 update
- P093** Partnering with ScoutPro for developing field scouting applications
- P094** Popularization of integrated pest and disease management module for onion in India
- P095** Success of University of Kentucky wheat IPM team
- P096** Research and extension: Different approach—Same objective, monitoring corn lepidopteran pests
- P097** Bird cherry-oat aphid bionomics in the PNW
- P098** The NYS IPM Field Crop Weekly Pest Report: Timely news local pest managers can use
- P099** Encouraging adoption of IPM by small-scale farmers: The western small farm-IPM working group
- PI00** Thirty years of IPM in Maine
- PI01** Development and delivery of ecologically-based IPM packages for wheat in Central Asia
- PI02** Transitioning apple growers to non-OP spray programs in Kentucky: Four case studies
- PI03** Utah IPM program: Outreach and applied research serve thousands in agriculture
- PI04** WSU-DAS—The online pest management support system for tree fruits in Washington
- PI05** Global herbicide resistance challenge conference
- PI06** Integrated pest management in public housing works!
- PI07** Role of pesticide safety educators in school IPM programs: South Dakota demonstration
- PI08** A growing national effort: progress towards implementing IPM in all US K-12 public schools by 2015
- PI09** The Texas school IPM model: How an EPA seed grant helped build a program
- PI10** Using IPM to improve our children's learning environment: The northeast school IPM working group
- PI11** The Rocky Mountain consortium—Expanding verifiable integrated pest management in public schools
- PI12** Responsible chemical use: Manufacturers taking the lead through stewardship and product development
- PI13** Sustainable places information network (SPIN)
- PI14** The French Quarter Formosan subterranean termite program in New Orleans, Louisiana: 1998-2011
- PI15** The University of California IPM Program's extension program for retail nurseries and garden centers
- PI16** The IPM Star process: What it takes to achieve IPM Star status
- PI17** Extension entomology and horticulture: A combined approach to teaching IPM
- PI18** Using audience response systems to capture IPM program needs and impacts
- PI19** Anomalous armyworm infestations in eastern Washington and Oregon wheat implicate *Dargida* spp.
- PI20** Evaluation of mustard plants and other products to control sweet potato whitefly, *Bemisia tabaci*
- PI21** Understanding and managing a key pest in cotton using community based maps of crop assemblages
- PI22** IPM for CLB, *O. melanopus* using new egg parasitoid, *Anaphes nipponicus* from *O. oryzae* on rice plants
- PI23** Developing new weather-based models to improve management of cereal leaf beetle, *Oulema melanopus*
- PI24** Development and testing new ways to reduce pesticides on raspberries using IPM tools
- PI25** An early-warning system for viruliferous aphid infestations of pulse crops in the Palouse region

- PI26** An integrated bird (*Psittacula krameri* Scopoli.) management strategy in sunflower
- PI27** Isothermal amplification of insect DNA
- PI28** Biology and infestation of *Nesidiocoris tenuis* Reuter (Hemiptera: Miridae) on tomato in Indonesia
- PI29** Correlation of resistance to maize weevil and starch arrangement in sectioned kernels of sorghum
- PI30** Defining interactions of agrochemicals to improve integrated pest management in peanut
- PI31** Distribution of *Metarhizium anisopliae* in agroecological soils of Pakistan
- PI32** Drought tolerant *T. harzianum* isolates promote growth and delay drought responses in *T. aestivum* L.
- PI33** Ecological engineering of rice ecosystem to reduce planthopper outbreak in Thailand
- PI34** Effects of microclimate changes in different vegetation types on cattle fever tick larval survival
- PI35** Establishment of banker plant of *Amblyseius swirskii* for managing multiple pests in vegetable crops
- PI36** Evaluation of promising rice varieties against panicle mite, *Steneotarsonemus spinki*
- PI37** Exploration, identification and pathogenicity tests of entomopathogenic fungi
- PI38** Field screening of chilli (*Capsicum annum* L.) entries against thrips (*Scirtothrips dorsalis*)
- PI39** Integrated control of spider mites on greenhouse roses in Thailand
- PI40** Grandevo biopesticide for managing insects and mites
- PI41** Managing the weed, parthenium (*Parthenium hysterophorus* L.) in eastern and southern Africa
- PI42** Integrated rice-weed management in iron-prone soil of Minna, Nigeria
- PI43** Herbicide banding in corn—An improved pest management practice?
- PI44** Improving biological control on equestrian farms
- PI45** Implications of gender relations for the introduction of IPM among tomato farmers in Ghana
- PI46** Not presented
- PI47** A decision support system for the integrated management of potato and tomato late blight
- PI48** Elucidating disease epidemiology for management of a complex virus pathosystem in wine grapes
- PI49** “DNA barcoding” of plant viruses using FTA classic card technology
- PI50** Host-specific differences in pathogenicity of *Erwinia tracheiphila* from different cucurbit crops
- PI51** Preliminary assessment of differences in Christmas tree species to root rot
- PI52** Biocontrol potential of salinity tolerant isolates of *Trichoderma harzianum* against fusarium wilt
- PI53** Control of soil-borne potato diseases using *Brassica* spp. mediated biofumigation
- PI54** Identification of resistant donors for tomato leaf curl virus in Coimbatore, India
- PI55** Incidence of YVMV in okra entries (*Abelmoschus esculentus* L.) under tropical condition
- PI56** Influence of different intercrops of sugarcane on nematode population dynamics in Kenya
- PI57** Effectiveness of selected fungicides for control of white powdery mildew of apples in Uganda
- PI58** Pruning techniques for managing bacterial canker of sweet cherry
- PI59** Regalia® biopesticide in plant disease management
- PI60** IPM strategies for the management of peanut bud necrosis virus disease in tomato
- PI61** Management of the *Cyperus rotundus*, *C. esculentus*, *Meloidogyne incognita* complex in irrigated crops
- PI62** Management of stem and root rot of sesame
- PI63** Investigating a tomato virus on Guam
- PI64** Managing powdery mildew in cucurbit crops with biopesticides and resistant varieties
- PI65** Interaction of bee pollination and seed feeding insect damage on sunflower seed traits
- PI66** Lethal and sublethal effects of insecticides on *Chrysoperla carnea*
- PI67** Management of major pests of small cardamom in Karnataka
- PI68** Not presented
- PI69** Organic soil fertility amendments as an IPM tool against Lepidopteran pests of cabbage
- PI70** Plant bioregulators enhance aphid control in pecan orchards
- PI71** Evaluation of a trap cropping strategy for control of harlequin bug in collard
- PI72** The incidence of gall wasp (*Quadrastacus erythrinae*) on *Erythrina* spp.

- P173** Insect and disease management in multi-use landscapes: Conventional, bioenergy, and non-crop hosts
- P174** Synergistic interactions within and across insect sensory modalities: Applications for IPM
- P175** Microbial control in strawberry IPM
- P176** Effect of methyl salicylate-based lures on lady beetle populations in Central Kentucky blackberries
- P177** Populations of beneficial insects in methyl salicylate-baited sweet corn in Central Kentucky
- P178** Acaricidal effects of four hypocrealean fungi against *Panonychus citri*
- P179** Not presented
- P180** Developing a sustainable IPM approach for management of herbicide resistant hydrilla in the U.S.
- P181** Increasing herbicide product options in noncrop areas: The Natural Areas Herbicide Working Group
- P182** Effectiveness of control treatments on saltcedar (*Tamarix* spp.) seedlings
- P183** A demonstration project using IPM principles for subterranean termite management
- P184** Sound landscaping forestall termite invasion to homes
- P185** Integrated pest management in child care: A mixed methods examination of the implementation process
- P186** IPM alternatives for stored-product insects





# author index

- Abdoulaye, Tahirou, 52.2, 52.4  
 Abdur Rahman, Md., 29.3  
 Abebe, Million, P141  
 Abel, Arinaitwe, P157  
 Adams, Brian, 40.5  
 Adams, James, P001  
 Adewale, I.A., P142  
 Adkins, Steve, P141  
 Agnello, Art, 61.1, P016  
 Agurto, Luis, 55.2  
 Ahmed, M., P043  
 Ajlan, Aziz, P054  
 Akhtar, Yasmin, 24.4  
 Akin, Scott, 40.4, 40.6, 40.7, 40.8, 44.3  
 Alam, Syed Nurul, 37.13  
 Alhudaib, Khalid, P054  
 Alkon, Abbey, P185  
 Allen, Andy, P008  
 Allen, Charles T., 7, 7.4, P083  
 Allen, Tom, P006  
 Allum, Nicole, P166  
 Almeida, R.P.P., 26.3  
 Alston, Diane, P099, P103  
 Alvarez, Anne, 23.5  
 Alwang, Jeffrey, 2.1, 4.8, 25.4  
 Amarasekare, Kaushalya G., P166  
 Anderson, Manda, P083  
 Anderson, Matt, P108  
 Andresen, Jeff, 16.1  
 Antilla, Larry, 44.2  
 Anwar, Waheed, P131  
 Appleby, Margaret, Outreach Plenary  
 Aravintharaj, R., P138, P154  
 Arinaitwe, Warren, 23.4  
 Armstrong, J., P085  
 Arnold, Andrew, 54.3  
 Ashley, R., P082  
 Asiimwe, D., P007  
 Aurelian, V.M., 37.3  
 Avery, Pasco, P135  
 Awaknawar, J.S., P028  
 Awasthi, R.P., P132  
 Ayub Kahloon, Muhammad, P187  
 Babadoost, Mohammad, P027  
 Babu, C. S. Jagadeesh, 58, 58.1  
 Bachelier, Jack, 46.6  
 Badilles, Alejandro E., P012  
 Bag, Sudeep, P026  
 Bagwell, Ralph 40.4  
 Bahder, Brian, P148  
 Baisal-Gurel, Fulya, 23.3  
 Baldwin, Rebecca, 49, 49.2  
 Balogh, Bontond, P001  
 Balusu, Rammohan R., 37.5  
 Bamba, Jesse, 37.6, P163  
 Bargerion, Charles T., 8.5, 39.7, P066  
 Baributsa, Dieudonne, 52, 52.3, 52.4  
 Barnwell, P., P063  
 Baron, Jerry, 41.5  
 Barrett, Michael, 20.6  
 Barzman, Marco, 51, 51.2  
 Bauer, Erin, I, I.1, I3, 48.4, P107  
 Baugh, Brant, P083  
 Baum, Kristen A., 18.6  
 Baysal-Gurel, Fulya, 23.4  
 Bechinski, Ed, P099, P125  
 Becker, Anastasia, I.3  
 Benbrook, Chuck, P020  
 Benbrook, Karen, P020  
 Bensaci, Oussama Ali, P059  
 Berger, Philip, 15.3  
 Bergh, Chris, P016  
 Bergstrom, Gary C., 22.3  
 Berkett, Lorraine, P049, P070  
 Bessin, Ric, P102  
 Beuzelin, Julien M., P173  
 Bhanu, K. R. M., 37.9, 37.12  
 Bibb, Jenny, 40.7  
 Bible, Johnny B., 39.2, P096  
 Bilal, Hazrat, P065  
 Biles, Stephen, P083  
 Birch, Nick, P124  
 Bird, George, 25.7  
 Birike, Joy, P176  
 Bishnoi, H. R., P005  
 Bishop, Beth, 16  
 Bisikwa, Jenipher, P141  
 Blaauw, Brett, P088  
 Blair, Russell, P140, P159  
 Blaisdell, G.K., 26.3  
 Bledsoe, Michael, 23.1, 23.4, 33.4  
 Blythe, Eugene, P025  
 Bogran, Carlos, Closing Plenary  
 Bolda, Mark, 15.5  
 Bolfrey-Arku, Grace, P074  
 Bolques, Alex, P002  
 Bolton, Herbert T., 11.3  
 Bomford, Michael K., P177  
 Bonabana-Wabbi, Jackline, P057  
 Borel, Amanda A., P166  
 Borman, Chris, P018  
 Bosworth, Sid, P070



Bowman, John E., 25.1	Bynum, Ed, P096	Cook, David, 47.4
Braband, Lynn A., Best Practices Plenary, P108, P110, P116	Calhoun, Phil, 55.2	Cook, Don, 40.4, 40.5, 40.6, 40.7, 44.3
Bradbury, Steven P., Opening Management Plenary	Call, Dottie, P095	Cooley, Daniel R., 61.1
Bradley, Carl A., 20.4	Campbell, Tyler A., P134	Coop, Leonard, P092
Bradley, Kevin 20.6	Carner, Gerry, P128, P137	Cooper, Monica L., 26.3, P031
Bradman, Asa, P185	Carriere, Yves, 19.5, 44.2	Copes, Warren, P025
Bradshaw, Joan, P180	Carroll, Juliet, P049, P089, P158	Corbett, Andrew, 19.5
Bradshaw, Terence, P049	Carroll, Stanley C., P035	Corey, Fred, 59, 59.2
Bragg, David, P097, P119	Carson, Janet, P117	Corp, Mary, P119
Braman, S. Kristine, 43, 43.2, 43.5	Cartwright, R., 8.3	Corrigan, Robert, Closing Plenary
Brandenburg, Rick, P074, P075, P130	Cass, Leslie, 9, 9.3, P046, P047	Cottrell, Ted E., P170
Braverman, Mike, 41.5	Catchot, Angus, 40.4, 40.5, 40.6, 40.7, 44.3	Cox, Kerik, P158
Breitenbach, Fritz, 46.4	Cederberg, Sara, 36.3, 36.6	Cressman, Keith, 28.2, P052
Brent, Leslye S., P177	Cezeaux, CG (Charles), 13.1	Cuda, James P., P180
Brewer, Gary J., P165	Chahal, Gurinderbir, P130	Culbreath, Albert, 26.2
Brewer, Michael, 19.3	Chaiyawat, Patchanee, P133	Daane, Kent, 26.3
Broatch, Jim, P181	Chambers, Ute, P104	Dachbrodt-Saaydeh, Silke, 9.1, 17.2
Bromfield, Kate, P053	Chanbusarakum, Lisa, P140	Damayanti, Tri, P149
Browde, Joe, 54.1	Chandran, Rakesh S., P143	Damicone, John P., P006
Brown, Diane, P038	Chandrasekar, G., P160	Danehower, David, P130
Brown, Lydia, P051	Chaowattanawong, Pichate, P139	Daniels, Michael, 59.3
Brown, Roger, P163	Chapara, Venkat, 20.4	Dankyi, Awere, P145
Brunner, Jay F., 37.10, P016	Chase, Ann, 33.3	Dara, Surendra, P175
Bruns, Zach, P108	Chatterjee, Monilal, P032	Darby, Heather, P070
Brust, Gerald, P015	Chaudhary, Malvika, 2.5	Dasari, Suresh, P136
Bryant, Alexandria, P088	Chen, Jianjun, P135	Daves, Chris, 40.4
Bryks, Sam, 12.4	Chirchir, Alexander, P156	Davidson, Nita A., 57, 57.1
Buckmaster, Amy, 4.7	Chisholm, Ken, P001	Davis, Angela R., P010
Budiman, Albert, P128	Chitio, Fernando M., P129	Davis, Paula, P048
Buhl, Kaci, 48, 48.3, Closing Plenary	Chowdhury, Ashim, P043	Davis, Ryan, P111
Bundy, Scott, 19.5	Christians, Nick, 41.6	Dayan, Franck, 41, 41.3
Buol, Greg, P075	Christie, Maria Elisa, 2.4, P145	De Barro, Paul, P053
Burgos, Nilda, 20.6	Cibils, Ximena, 18.5	Deneke, Darrell, 1.2
Burns, Dennis, P024	Clark, Krissie, P141	Dennehy, Timothy, Research Plenary
Burr, Thomas, P158	Clay, Sharon A., P182	Deom, Mike, 26.6
Burrack, Hannah, 15, 15.1	Clement, David L., 32, 32.2	Devaraju, K.M., P030, P167
Burres, Richard, P004	Clements, Jon, P049	Deveson, Ted, 28.5
Burrows, Mary E., P066	Clifton, Eric H., 35.3	DeWolf, Erick, 22.4
Burton, James D., P130	Cloyd, Raymond, 33.2	Dickey, Aaron M., P127
Busi, Roberto, P105	Coker, Cliff M., P006	Dien, Roy, P128
Butler, Robert, P081	Colavito, Luke A., 25.3, 25.5	Diercks, Andy, 50.5
Byamugisha, K., P169	Coli, William, P039, P062	Diercks, Steve, 50.5
	Coly, Emile, 37.8	DiFonzo, Christina, 19.3

Dill, Griffin M., P100  
 Dill, James F., 7.1, P050, P100  
 Dinakaran, D., 25.8, P094  
 Dinelli, Dan, 38.1  
 Dively, Galen, 24.8, 35.6, 35.7, P015  
 Dixon, Wayne, 44.2, 61.6, P051, P056  
 Donaldson, Susan, P118  
 Donelson, Sarah L., 18.4  
 Doraswamy, Chinnaiyah, P034, P172  
 Dorn, Silvia, P174  
 Dorschner, Keith, 26.5  
 Dotterer, Laura, P018  
 Douce, G. Keith, P060, P066  
 Drake, David, P083  
 Draper, Martin, 3.2, 15.2, 61, P017, P068  
 Drijver, Cora, P053  
 Dripps, James E., 31, 31.6  
 Drost, Dan, P099  
 Dufault, Nick, 46.9  
 Duggal, Naresh, Best Practices Plenary, 6, 6.2, 57.4  
 Duke, Stephen, 41, 41.1  
 Dupuis, Virgil, 59, 59.1  
 Durairaj, Chinnasamy, 25.8, 37.7  
 Dwyer, James D., 7.1, P100  
 Edwards, J., P085  
 Eigenbrode, Sanford D., P125  
 Ekbohm, B., P169  
 Ekere, W., P072  
 El-Bouhssini, Mustapha, P101  
 Ellen, Gwendolyn, P099  
 Ellis, Donna, 47.2  
 Ellis, E. A., P129  
 Ellsworth, Peter, 19.5, 44.2, 61.6, P051, P056, Closing Plenary  
 Endicott, Sandy, P048  
 Endres, G., P082  
 Erbaugh, J. Mark, P007, P057, P073, P084  
 Eshenaur, Brian, P090, P151  
 Evenden, Maya L., 37.3  
 Everts, Kate, P011  
 Fadamiro, Henry, 7.6, 37.5  
 Fair, Val, P081  
 Faleiro, J. R., P054  
 Fausey-Scheckelhoff, Beth, 23.2  
 Fayad, Amer, 2  
 Ferris, Kristine, P069  
 Fiore, Cheryl, P161  
 Fischer, A. J., 19.6  
 Fiser, S., 8.3  
 Fishel, Fred, P078  
 Fitiwy, Ibrahim, P141  
 Fitzner, Michael S., 19.8, P017  
 Fleischer, Shelby, 24.8, 35.7  
 Fleming, Chris, 47.4  
 Flint, Mary Louise, 57.2, 60.5, P115  
 Flood, Brian, 24.8, 35.7  
 Forschler, Brian, P183  
 Foss, Carrie, P108, P116  
 Foster, Rick, 7.2  
 Fournier, Alfred, 19.5, 44.2, 61.6, P051, P056  
 Frana, Jorge, 51.5  
 Frazier, Ralph, P024  
 Freier, Bernd, P041  
 Friley, Karen L., P176, P177  
 Frisvold, George, 20.6  
 Fry, William E., P147  
 Futrell, Susan, 14.2  
 Gajendran, G., 25.8, 37.7, P094  
 Galhena, Hashini, P087  
 Galizia, Giovanni, P174  
 Gallegos, Luis, P121  
 Gandhi, Karthikeyan, P160  
 Gangloff-Kaufmann, Jody, 12, 12.1, 32.3  
 Gapparov, Furkat, 28.4  
 Garcia-Salazar, Carlos, P038  
 Gard, Turyamureba, P157  
 Gardiner, Mary, P088  
 Gardner, Ronald, P091  
 Garling, Lyn, 47.5  
 Gassmann, Aaron J., 35.3  
 Gebrehiwot, Lule, P141  
 Geden, Chris J., P144  
 Geiger, Chris, 38.4  
 German, Tom, 19.3  
 Ghanim, Murad, 24.1  
 Gilbert, Celeste, P140, P159  
 Giles, Kristopher L., 18.4, P085  
 Gillett-Kaufman, Jennifer, P180  
 Gioeli, Kenneth, P180  
 Giraddi, R.S., P028  
 Gital, Iliyasa, 52.4  
 Gleason, Mark, 16.3, P150  
 Glick, Sherry, 12.7, 30, 30.1  
 Godfrey, Larry, 19.5  
 Gomez, Edmund, P099  
 Gomez, Luis, 31, 31.2  
 Goodell, Peter, 7.3, 19.5, 21.3, P040, P121  
 Gore, Jeff, 40, 40.3, 40.4, 40.5, 40.6, 44.3  
 Gouge, Dawn H., 12, 12.8, 61.6, P108  
 Gover, Art, P181  
 Graham, Lawrence "Fudd", P108  
 Grant, Jennifer, 10.1, 38, 38.2, 38.3  
 Grasswitz, Tessa, P099  
 Gratton, Claudio, 19.3  
 Grau, Craig, 19.3  
 Gray, Michael E., 35.5, 46.7  
 Green, Thomas, 5, 5.1, 21.1, 36.2, 36.6, 50, 50.1, 50.6, 61.1, P020, P064, P080, P108, Closing Plenary  
 Greene, Jeremy, 40.4  
 Groth, D.E., 8.3  
 Guerrero, Angel, 37.4  
 Guillot, Frank S., P114  
 Gut, Larry, P038  
 Guzy, Michael, P020  
 Gyawali, Bishnu K., 25.5  
 Hagler, James R., 18, 18.1, 18.3, 19.5  
 Hahn, Noel, P038  
 Haider, Muhammad Saleem, P131  
 Haleegoah, Joyce, P145  
 Hamilton, George, 61.5, P015, P016  
 Hammig, Michael, P128, P137  
 Handley, David T., P050, P100  
 Hara, Arnold, P033  
 Harizanova, Vili, 39.4  
 Harlow, Erin, 49.1  
 Harper, Jay, P016  
 Harrell, D.L., 8.3  
 Harris, Leah, 4.3  
 Haseeb, Muhammad, P002

Hays, Kimberly A., 18.6	Ichihara, Minoru, P029	Kagezi, G., P084
Hazelrigg, Ann, P070	Ilic, Sanja, 23.3	Kalmar, Evie, P185
Heap, I., 20.5	Inagaki, Hidehiro, P029	Kambrekar, D. N., P036
Heimpel, George, 19.3	Ingersoll, Dave, P004	Kamminga, Katherine L., P015
Hein, Gary L., 60, 60.7, P018	Ingram, David, 23	Kaplan, Jonathan, P020
Hejazi, Mir Jalil, P037, P044	Irish-Brown, Amy, P038	Kard, B., P085
Henderson, David, 13.1	Isaacs, Rufus, 61.3, P038	Karimzadeh, Roghaiyeh, P037, P044
Herbert, Ames, 46.6, P075, P123	Isakeit, Tom, P006	Karthikeyan, G., 25.8, 26.4, P094, P149, P154, P155
Herms, Dan, 16.2	Ishaaya, Isaac, 24, 24.1, 24.5	Karungi, Jeninah, P007, P057, P072, P073, P169
Hernandez, Pedro, P001	Isman, Murray B., 24.4	Karuppuchamy, P., P045
Herring, Michael E., 11.1	Jackson, Ryan, 40.3, 40.6, 44.3	Kashaija, Imelda. N., P157
Hershman, Don, 22.2	Jain, R. K., 58.3	Kashe, Keotshephile, P141
Hetirick, Stacia, P180	Jalilov, Anvar, P101	Kateregg, J., P169
Hewitt, David G., P134	Jamal, Zahra, P087	Kaushik, Nutan, P013
Hidayat, Sri, P149	James Olasunkanmi, Adeosun, P142	Keck, Molly, P083
Higgins, Laura S., 35.2	Jangir, R.P., P005	Kegley, Susan, 5.5, 5.6, P020
Hillock, D., P085	Jasinski, Jim, 42.4, P088	Keinath, Anthony P., 61.2
Himmel, Phyllis, P140, P159	Jayabal, V., 25.8, P094	Kelsey, K., P085
Hix, Raymond, P180	Jennings, Susan, 11, 11.5	Kemerait, R. C., 26.2, P006
Hochmuth, Robert C., 60.4	Jensen, Andrew, P071	Kenaley, Shawn, P151
Hodges, Amanda C., P068	Jensen, Jens Erik, 51.3	Kennelly, Megan, P101
Hodgson, Erin, 46, P067	Jepson, Paul, 5.4, 15.4, 51.6, P020, P092	Kenyon, David M., P153
Hoefner, Ferd, 3.3	Jess, Lynnae, 9.4, 9.8, Closing Plenary	Kerns, David, 19.5
Hoffner, Amy, P019	Jesse, Laura, P067	Khan, Salik Nawaz, P131
Hogsette, Jerome A., P144	Jiang, Ronliange, P178	Kimenju, John, P156
Hollier, C.A., 8.3, P006	Johnson, Donn, P008	Kirby, Scott, P021
Hollingworth, Robert M., 20.1	Johnson, Gordon, P011	Kirinya, Julian, P057
Hommel, Bernd, 9.2, P041	Johnson, Monte, 61	Knodel, Janet, P082
Hong, Chuanxue, 27	Johnson, Robert J., P121	Koivunen, Marja, 41.2
Hooks, Cerruti, P016	Johnson, Timothy, P140, P159	Kolb, Fred, 22.1
Hopkins, John D., P117	Johnstone, Rick, 45, 45.2	Kongchuensin, Manita, P139
Horowitz, A. Rami, 24, 24.1, 24.5	Jonathan, E.I., 25.8, 37.7, P042, P045, P094, P160	Konvipasruang, Ploychompoo, P139
Howell, J'Lynn, 41.3	Jones, Allison, P040	Koplinka-Loehr, Carrie, 3.1, 42, 42.1, P016, P080, P106, Closing Plenary
Hoy, Jeffrey W., P173	Jones, Erin N., 39.2	Kora, Cezarina, P047
Hoying, Stephen, P158	Jones, Vincent P., P104	Korus, Kevin, P018
Hu, Xing Ping, P184	Joost, Rich, P006	Kovach, Joseph, P007, P073, P084
Hueppelsheuser, Tracy, P069	Jordan, David, P019, P074, P075, P130	Kratsch, Heidi, P118
Hummel, Natalie A., 8.3, 48, 48.2	Jordan, Katerina S., 41.4	Krause, Matthew, 33.5
Hurley, Janet A., 8.2, P108, P109, P116	Jordan, Kyle, P112	Krawczyk, Greg, 31.5, P016
Husebye, Damon, P125	Joseph, Annie, 57.3	Kring, Timothy J., 18.2, 39, 39.1, 39.3, 39.8
Hutchison, William D., 24.8, 35.6, 35.7	Joseph, Laura, P147	Krishnamoorthy, S.V., P055
Hybner, Roger, P181	Joshi, Vister, P013	Krohn, Daniel, 56.3
Ibrahim, Baoua, 52.1, 52.4	Judd, G.J.R., 37.3	

Krueger, David W., 8.4  
 Kucel, Patrick, P073, P084  
 Kudsk, Per, 51.2  
 Kuenstler, Bill, 21.2, P040  
 Kuhar, Thomas, 46.6, P015, P123, P171  
 Kularathna, Manjula, P024  
 Kumar Ponnusamy, Pretheep, 58.2  
 Kumar, J., P132, P152  
 Kumar, Prasanna, P009  
 Kumar, S. Mohan, P138  
 Kunickis, Sheryl, 9.5  
 Kuttalam, S., P055  
 Kwesiga, J., P072  
 Kyamanywa, S., 37.11, P007, P057, P072, P084, P169  
 Laengle, T., P046  
 LaForest, J., P066  
 Lamb, Elizabeth, P090  
 Lamka, Greg, P048  
 Lammoglia, Agustin, 50.7  
 Landis, Doug, 19.3, P101  
 Landis, Joy, P038, P079  
 Landolt, Peter, P119  
 Lange, Rachel A., 39.2  
 Larson, C., P082  
 Lassiter, Bridget R., P075  
 Latchininsky, Alexandre, 28, 28.1, 28.4, P014  
 Laub, Curt, 24.7  
 Lausmann, Rainer, 57.5  
 Lax, Alan, P114  
 Lea-Cox, John, 27.2  
 Lebedev, Galina, 24.1  
 Leblanc, Debby, 9.7  
 Leblanc, Luc, 31.2  
 Leclerc, Yves, 50.4, P004  
 Lee, Chow-Yang, Best Practices Plenary, 45  
 Legaspi, Jesusa C., P120  
 Legrand, Ana, 7.8  
 Lejeune, Jeff, 23.3  
 Leonard, B. Rogers, 40.2, 40.3, 40.4, 40.6, 40.7, 44.1, 44.3, 48, 48.1  
 Leonard, Vickie, P185  
 Leppla, Norman C., Opening Plenary, 60, 60.1, P080, P144, Closing Plenary  
 Leskey, Tracy, P016  
 Leval, Kim, P080  
 Lewis Ivey, Melanie, 23.3, 23.4  
 Ley, Elizabeth L., P017  
 Liesner, Leighton, 44.2  
 Ling, Kai-Shu, 23.6  
 Llewellyn, Rick, 20.6  
 Lobo, Ramiro, P099  
 Loeb, Greg, P089  
 Lombarkia, Nadia, P059  
 Lorenz, Gus, 40.1, 40.4, 40.6, 44.3  
 Louws, Frank, 8, 8.1  
 Lowenberg-DeBoer, Jess, 52, 52.3, 52.4  
 Lucas, Patty, P102  
 Lucia, Varela G., P031  
 Ludwig, Scott, P001  
 Lumanauw, Saartje J., P137  
 Lynn-Patterson, Kris, P121  
 Lyons, Eric, 41.4  
 MacDonald, Tim, P021  
 Machtinger, Erika T., P144  
 MacRae, Ian, 46.4  
 Mahalingam, C.A., P042  
 Mahroof, Rizana, P186  
 Malinoski, Mary Kay, 32, 32.1  
 Mallapur, C.P., P028  
 Mangheni, Margaret, P057  
 Manglona, Jack, P012  
 Mannion, Catharine, 43, 43.1, 43.5  
 Manoranjitham, Karuppannan, P149, P160  
 Maredia, Karim, 25, 25.7, P079  
 Markell, S., P082  
 Marlowe, Jack, 36.4, 36.6  
 Marois, Jim J., P006  
 Marrone, Pam, 56, 56.2, P080, P140, P159  
 Martin, Melea, P024  
 Martin, Randy, 33, 33.1  
 Mason, Keith, 61.3, P038  
 Matsuno, Kazuo, P029  
 Mattson, Neil, P090  
 Mau, Ronald F.L., 31.2, P174  
 Mavlyanova, Ravza, 25.7  
 McCloskey, William, P051  
 McConnachie, Andrew, P141  
 McCornack, Brian, 18.5  
 McDougall, Sandra, 6, 6.1  
 McGawley, Edward, P024  
 McGrath, Clarke, 46.1  
 McGrath, Margaret T., 20.3, 53.1, 53.2, P164  
 McKee, Greg, 22.6  
 McKenzie, Cindy L., P127, P135  
 McMullen, Marcia, 22, 22.6, P082  
 McNamee, Clyde, P141  
 McNeill, Corrairie, 49.3  
 McSpadden, W. Owen, P035  
 Meberg, Heather, P081  
 Mellinger, H. Charles, 60.2  
 Melnicoe, Rick, 19.2  
 Meray, Merlyn, P128  
 Merchant, Michael E., P109  
 Mersie, Wondi, P141  
 Mészáros, A., 8.3  
 Michels, Jerry, P096  
 Michels, Jr., Gerald J., 39.2  
 Mien, Yousuf, 25.6  
 Milbrath, Lindsey R., 39.5  
 Miller, Dini, 12.2  
 Miller, Neil, P120  
 Miller, Sally A., 2.2, 23, 23.3, 23.4, 53.1, 53.2, P007  
 Miller, William A., P039, P062  
 Mineau, Pierre, 5.3, P020  
 Minter, Carey R., 39.3  
 Minzenmayer, Richard, P083  
 Mir, Debby F., 11.4  
 Mitchell, Mary, P021  
 Mitchell, Paul, 46.2  
 Miwa, Kentaro, P165  
 Miyazoe, Mikio, P023  
 Mizumoto, Syunsuke, P029  
 Mochiah, Brandford, P074  
 Moder, Wade, 21.7, P040  
 Mohankumar, H.D., P028  
 Mohankumar, S., 25.8, 37.7, P094, P160  
 Monfort, W. Scott, P006  
 Moorman, Gary, 27, 27.1  
 Morgan, Alan L., P114  
 Moriles Miller, Janet, P182

Morrow, Leigh, P004	Osborne, Lance S., PI27, PI35	Powles, Stephen, 20.6, PI05
Mota-Sanchez, David, 20, 20.1	Ostlie, Kenneth, 46.4	Prasad, A. R., 37.7
Mothukapalli, K., P009	Ostrom, Marcy, P099	Prasad, Renee, P081
Mueller, Daren S., 46, P077, P093	Oudemans, Peter, P049	Preetha, S., P045
Mueller, John D., P006	Overholt, William, PI80	Presley, Leigh, 3, 5, 50
Mulrooney, Bob, P011	Overstreet, Charles, P024	Pronschinske, Wade, 5.2, 50.6, P020
Multer, Warren, P083	Owen, Micheal D. K., 34, 34.3	Pugalendhi, L., P022, PI38, PI54, PI55
Muniappan, Rangaswamy, 29, 29.1, PI41	Owens, Daniel K., 41.3	Racioppi, Linda, P087
Muratova, Nadya, 28.3	Owusu-Akyaw, Michael, P074	Radova, Stepanka, P058
Murdock, Larry, 52.1, 52.4, P095	P. Karuppuchamy, 37.7	Ragsdale, David, 19.3
Murray, Kathy, 47, 47.1, 47.6, PI08, PI10	Palli, Subba Reddy, 24.2	Ragupathi, N., PI55
Murray, Leigh, PI61	Palumbo, John, 19.5, 24.6, 61.6, P056	Rajeshkumar, J., 37.7
Murray, Marion, PI03	Pappu, Hanu R., P026	Rajotte, Edwin George, 7.7
Musser, Fred, 40.3, 40.4, 40.5, 40.6, 40.7, 44.3	Parajulee, Megha, Research Plenary, 19.5, P035	Rajpurohit, T. S., PI62
Muzira, F., P072	Parker, Sharon, P067	Ramakrishnan, S., 25.8
Myers, Elizabeth, P016	Passreiter, Claus, 24.4	Rangaswamy, S.D., P030, PI67
Nafuna, K., P084	Pathak, Sunil Kumar, P003	Ransom, Joel K., 22.6
Naik, Jemla, P030, PI67	Paul, Pierce A., 22.5	Rante, Carolus, PI28
Nakkeeran, Sevugapperuamal, 29.2	Paulsen, Christian M., PI70	Rapusas, Hermie, 25.3, 29.4
Nalugo, R.G., P072	Pedersen, Dianne, 20.4	Ratcliffe, Susan T., 59, P068, Closing Plenary
Naranjo, Steve E., 18.3, 19.5, 44.2	Peeper, T., P085	Rathore, B. S., P005
Natesan, P., P055	Pendleton, Bonnie B., PI29	Rattigan, Charles F., 8.6
Negri, Mulugeta, PI41	Pendleton, Michael W., PI29	Rauf, Annu, 2.6, 25.2
Nelson, D., P082	Pennisi, Svoboda V., 43.4	Rawat, Laxmi, PI32, PI52
Ni, Xinzhi, PI70	Perry, Tasha, PI34	Rayapati, Naidu, 26, 26.4, PI48, PI49, PI60
Nichols, Robert, 20, 20.5, 20.6	Petanovic, Radmila, 39.4	Reagan, T.E. (Gene), 19.7, PI73
Nigatu, Lisanework, PI41	Peterson, Gary C., PI29	Reay-Jones, Frances, 46.6
Niino-DuPonte, Ruth, P033	Peterson, Jack, 44.2, 61.6, P056	Rector, Brian, 39.4
Norsworthy, Jason, 20.6	Petit, Brad, PI04	Reddy, G.V.P., 37, 37.6
Norton, George, 4, 4.1, P057	Petzold-Maxwell, Jennifer L., 35.3	Ree, Bill, P083
Nowierski, Robert, 60.3, 61	Pfeiffer, Douglas, 37, 37.7, 37.8	Reisig, Dominic, 46.6, PI23
O'Neal, Matt, 19.3	Philips, Christopher, 46.6, PI23	Reissig, Harvey, 61.1
Ochwo-ssemakula, M.K.N., P072	Phillips, Pamela L., PI34	Renchie, Don, PI09
Ogg, Clyde, I, I.1, 13, 47.3, PI07	Phillips, Thomas W., 37.2	Renz, Mark, PI81
Ohmart, Clifford P., 54, 54.2	Phills, Bobby, P002	Rice, Marlin E., 35, 35.1
Ohrman, Michelle, PI82	Phipps, Pat, P075	Riddick, Justina, PI76
Olson, Kent, 19.3	Piazza, F., 8.3	Riley, Rachel M., 11.2
Olubayo, Florence, PI56	Pike, Keith, PI19	Ring, Dennis, PI14
Olufemi, Alabi, PI48, PI49	Pilcher, Clint, 35.2	Robacker, Carol, 43.3
Omoto, Celso, 35.4	Pinaria, Betsy, PI37	Roberts, Diana, PI19, PI25
Onstad, David, 35.8	Piñero, Jaime C., 31.2, P086, PI74	Roberts, E. A., PI23
Ortega, J. Alfonso, PI34	Polk, Dean, 61.5	Robinson, David, P049
Osantowski, Dori, P018	Potter, Bruce, 46.4	Robinson, Terence, PI58

Rogers, Michael E., 31.3	Seaman, Abby, P091	Smith, Rhonda J., P031
Rondon, Silvia I., P026, P119	Secor, Will, 4.2	Smith, Steve, 50.8
Rosenberg, Bob, P080	Sedlacek, John, P176, P177	Snodgrass, Gordon, 40.3
Rosenberger, David, Outreach Plenary	Seifert, Caitlin, 36, 36.1, P064	Snyder, Ted, 55, 55.1
Rosenheim, Jay, 19.5	Sembel, Dantje T., P128, P137	Sow, Galo, 37.8
Rosser, Susan J., P153	Settle, Derek, 38, 38.1	Srinivasan, R., 26.2
Rothwell, Nikki, P038	Sharma, Vivek, P013	Ssemwogerere, C., P084
Rouabah, Khamsa, P059	Shatters Jr., Robert G., P127	Ssonko, R.N., P007
Route, Arnold, P012	Shaw, David, 20.6	Staker, Jay W., P077
Rowlandson, Tracy, 16.3	Shearer, Judith, P180	Stedfast, Molly, 12.2
Roy, Mary, 10, 10.1	Shearer, Peter, 31.4, P016, P166	Stewart, Scott, 40, 40.4, 40.6, 40.7, 44.3
Royer, Tom A., P085	Shepard, Merle, P128, P137	Stock, Tim, 12.5, P108
Rozyne, Michael, 3.4, 14, 14.1, 21.6, 42.2, 61.1, P040, P080	Shepherd, Tom, P124	Stocks, Stephanie D., P068
Rubaihayo, P.R., P007	Sherly, J., P022	Stoddard, Bob, P108
Ruberson, John R., P170	Sherwood, John, 26.1	Stoeva, Atanaska, 39.4
Rudeen, Missy L., 35.3	Shew, Barbara B., P075, P130	Stokes, Bradley, P125
Russell, Scott, P083	Shibuya, Shunichi, P122	Stone, Alex, 53, 53.2, 53.1, P023
Russell, William, 50.3	Shivashankar, Thimmaiah, P009, P034, P126, P172	Stoneman, Bill, 56, 56.1
Rutz, Donald A., P076	Shour, Mark, 1.2, P107	Strassemeyer, Jörn, P041
Saalau Rojas, Erika, P150	Showler, Allan T., P173	Strathie, Lorraine, P141
Safarzoda, Shahlo, P101	Shrefler, James W., P010	Strey, III, Otto F., 8.2
Saichuk, J.K., 8.3	Shrestha, Ram, P035	Striegler, Keith, P008
Said, Roaida, P002	Shukla, Nandani, P132	Stringham, S. Michael, 61.4
Saidov, Nurali, P101	Sial, A., 26.3	Studebaker, Glenn, 40.4, 40.6, 40.7, 44.3
Saiki, Chieko, P029	Sidde Gowda, D.K., P009, P126	Su, Hai, P140, P159
Sakalauskas, Karina, P069, P081	Siders, Kerry, P083	Sudarsana, Poojari, P148, P149
Sall, Dienaba, 37.8	Siebert, Melissa, 44	Suiter, Karl, 8.1
Samiyappan, R., 25.8, P045, P094, P160	Siegfried, Blair D., 20.2	Sundria, Man Mohan, P005
Sanderson, John, P090	Sigfusson, Dan, P081	Suresh, S., P042, P045
Santangelo, Richard G., 61.4	Sikora, Ed J. P006	Swaminathan, R., P005
Sapunov, V.B., P061	Singh, Y., P152	Sweeney, Mark, P069
Savitha, B.K., P138, P154, P155	Sisson, Adam, P067, P077, P093	Swinton, Scott, 4.6, 19.3
Schal, Coby, 61.4	Siva, Cynthia, 41.4	Tabashnik, Bruce, 44.2
Schell, Scott P., P014	Sivakumar, M., P022	Taidi, Solomon, P142
Schlub, Robert, P163	Sivanpillai, Ramesh, 28.4, 28.6	Taisey, Allison A., 12.3, 42.3, P106
Schmidt, Naomi, P161	Skelly, JoAnne, P118	Talley, J., P085
Schmitz, Jodi, P064	Skinner, Margaret, P070	Tarafder, J., P043
Schroeder, Jill, Opening Plenary, P161	Slone, Darrell, P177	Tardif, François J., 41.4
Schultz, Andrew, P148	Smagghe, Guy, 24.3	Tashpulatova, Barno, 25.7
Schultz, B., 8.3	Small, Ian M., P147	Tatagar, M. H., P028
Schultz, P.B., P171	Smeda, Reid, P008	Taulu, Lusye, P137
Schuster, Greta L., P134	Smith, Luther, 60.6	Taylor, Daniel, P057
Schwartz, Howard, P066	Smith, Paul, 7.5	Taylor, Fiona, P153
		Taylor, Merritt, P010

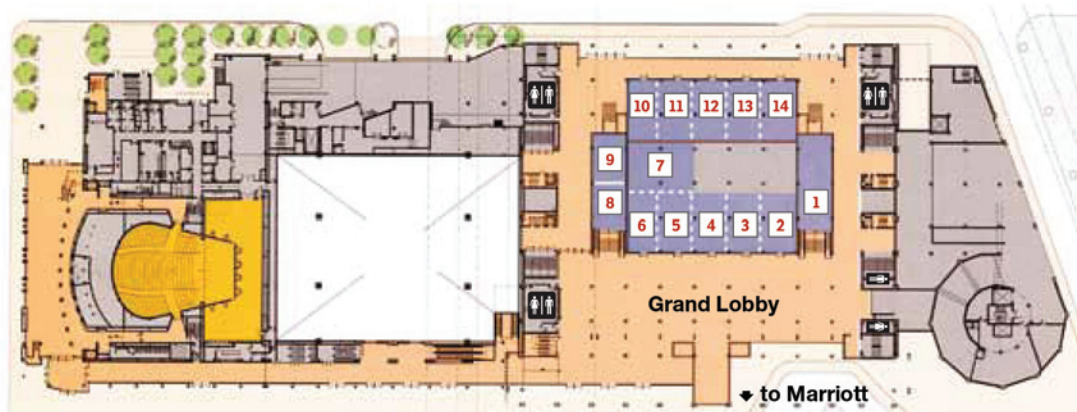


Taylor, Owen, 48.5	Waldron, J. Keith, P076	Windbiel-Rojas, Karey, P115
Teasdale, Carolyn, P069, P081	Waldstein, D., P082	Wise, Kenneth, P076, P098
Teel, Pete D., 8.2	Walgenbach, Jim, 19.4, P016	Wise, Kiersten, 46.3
Teixeira, L., 61.3	Walker, Wayne, 36.5, 36.6	Wistrom, C.M., 26.3
Thapa, Gopal, 25.3, 25.5	Wallace, Rebekah D., 39.7	Witt, Bill, 20.6
Thippesha, D., P030, P167	Wallbrown, Rodney, P143	Witzgall, Peter, 37.1
Thiruvudainambi, S., P094	Wallingford, Anna, P171	Wohanka, Walter, 27.3
Thomas, Carla, P092	Walsh, Bronwyn, 17, 17.1, 17.4	Wohleb, Carrie H., P071
Thomas, James, 44	Walsh, Doug, 26.3, 26.5, P099, P148	Woltz, Megan, P088
Thomas, Stephen H., P161	Walston, Allison, P001	Wood, Bruce W., P170
Tolin, Sue A., 2.3, 26.7	Walton, V.M., 26.3	Wood, Tara, P018
Toomey, Bill, P060	Wang, Haikou, 28.5	Workman, Dave, P143
Toscano, K., P085	Wang, Liande, P178	Wratten, Steve, P053
Tritten, Bob, P038	Ward, Sarah, 20.6	Wright, David L., P006, 3.5
Trojan, Jacqueline, P161	Warouw, Jotje, P137	Wright, Robert, 46
Tulung, Max, P137	Waters, Timothy D., P071	Wu, Shaohui, 24.7
Tusiime, G., P007, P057	Watson, Craig, 50.2	Wyenandt, Andy, 20
Tylka, Greg, 46.5	Waughtel, Shauna, P182	Xavier, Deborah, P024
Ugbe, Utiang, 52.4	Way, M.O., 8.3, P173	Xiao, Yingfang, P135
Uma, Krishnasamy, 2.7	Webber III, Charles L., P010	Xu, Xiulan, 23.4, 23.3
Umar, Gohar, P002	Webster, E.P., 8.3	Yamaguchi, Shou, P029
Usman, Hajara, P142	Webster, T.M., 20.5, 20.6	Yamashita, Masayuki, P029
Vail, Karen, P063	Weigle, Timothy, P089	Yang, Yubin, P173
Van Timmeren, Steve, P038	Weisz, Randy, 46.6	Yasuhara-Bell, Jarred, 23.5
VanKirk, James, 9.6, 19, 19.1, P080, Closing Plenary	Weller, Stephen, 34.2	Yogananda, Shivalli B., P009
VanWeelden, Matthew T., P173	Werts, Peter, 21, 21.5, 21.7, P040	Yohn, Craig, P143
Vargas, Roger I., 31.2, P174	Whalen, Joanne, P011, P015, P016	York, Alan, P019, P130
Varma, Ramgopal, P136	Whalon, Mark E., 20, 20.1, P038	Young, Bryan, 34.1
Vencill, W.K., 20.5	Wible, Chris, 3.6	Young, Deborah, P111
Venette, Robert, 19.3	Wiedenmann, Robert N., 18.7, 39.3, 39.6	Youngman, Roger R., 24.7
Verma, K. K., 58.3	Wilcox, Wayne, P089	Zalom, Frank, 25.7
Vermuti, Shashi, P136	Wilen, Cheryl, P099	Zeufle, Marion, P158
Viator, Blaine, 21.4, 48.6	Wilkerson, Gail G., P075	Zewdie, Kassahun, P141
Vickery, John, 45, 45.1, P181	Williams, Cinda, P099	Zhang, Guirong, 20.4
Vincelli, Paul, 46.8	Willyerd, Katelyn T., 22.5	Zhang, J.X., P046
Vincent, Josh, 12.6, P113	Wilson, Blake E., P173	Zhang, Wei, 4.4
Vyavhare, Suhas, P129	Wilson, Guy, P140	Ziegler, Amos, P038
Wabuye, Emily, P141	Wilson, Jim, P107	Zseleczky, Laura, P145
	Wilson, Lloyd T., P173	Zurek, Ludek, 61.4



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