



Addressing the North American and Pacific Rim Invasive Insect and Arthropod Species Challenge

Brief Speaker Biographies and Poster Information:

The following individuals (listed alphabetically) are contributors to the 9-10 November 2018 Summit on invasive arthropod species in Vancouver, BC, USA. The Entomological Society of America (ESA) can assist with coordinating media interview requests with these individuals either at or prior to the Summit. To learn more about the event, please see <https://entomologychallenges.org/vancouver2018/>



- Prior to the summit, please contact Joe Rominiecki, ESA's Communications Program Manager at rjrominiecki@entsoc.org or 301-731-4535, x3009 to schedule media interviews.
- Onsite in Vancouver, contact Joe through the registration desk for the Summit in the Waterfront ballroom of the Vancouver Fairmont Waterfront hotel.
- Posters presented at the summit are listed on the last pages of this document

Babita Bains is a Registered Professional Forester and has a Master of Science in Forest Entomology from the University of British Columbia. She has been working with the Province of BC's Ministry of Forests, Lands, Natural Resource Operations and Rural Development as the Provincial Forest Entomologist since 2017. Prior to joining the Province she worked as a forest consultant where she completed and contributed to numerous projects related to forest health, environmental impact assessment, wildfire mitigation planning and urban forestry.



Ms. Bains will serve on a moderated panel that examines the invasive forestry pests of British Columbia.

Stephanie Bloem accepted the position of NAPPO Executive Director in July 2015. In this role, she manages the NAPPO Secretariat's human and financial resources while leading the fulfillment of the NAPPO Executive Committee's strategic plan and priority goals for North America. Stephanie Chairs the NAPPO Advisory and Management Group (AMC) and together with the NAPPO Technical Director manages the work of the fifteen NAPPO Expert Groups involved in projects of strategic importance to North America. Stephanie was born in Mexico and grew-up



in Guatemala. She has a Licenciatura degree in Biology from Universidad del Valle de Guatemala, a Doctorate in Entomology from UC Davis and more than 30 years of experience working on phytosanitary issues around the world. She is a subject matter expert in regulatory plant science, risk analysis and pest risk analysis, area-wide pest management and in the sterile insect technique and inherited sterility for quarantine significant pests.

Dr. Bloem will serve on two panels – the first discussing the political realities of managing invasive arthropods and the second that examines the specific challenges related to invasive pests.

Patrice Bouchard is a research scientist at Agriculture and Agri-Food Canada and the Curator of the Coleoptera Unit of the Canadian National Collection of Insects, Arachnids and Nematodes. His research focusses primarily on the taxonomy and evolution of beetles associated with Canadian agricultural and natural ecosystems, including invasive species. He has played various roles in scientific organizations such as the *Entomological Society of Canada* (currently President), the *Biological Survey of Canada* and the *International Commission on Zoological Nomenclature*.



Dr. Bouchard will serve on a panel of entomological society leaders from around the world who have been active in the Grand Challenges movement.

Paul Bunje is the co-founder of Conservation X Labs, a company that brings technology and entrepreneurship to conservation using a mix of crowdsourcing, open innovation, directed research, and acceleration. Paul was formerly the Chief Scientist at the XPRIZE Foundation, the founding Executive Director of the UCLA Center for Climate Change Solutions, and the Managing Director of the Los Angeles Regional Collaborative for Climate Action and Sustainability. Paul received his Ph.D. in evolutionary biology from the University of California, Berkeley.



Mr. Bunje will provide a talk on innovative funding models for scientific research, using his company as an example.

James Carey is a distinguished professor of entomology at the University of California, Davis and the world's foremost authority on arthropod demography. He has authored more than 250 scientific articles, including landmark papers in *Science*, and the Annual Reviews. In 2014, Carey received the C. W. Woodworth Award, the highest honor bestowed by the Pacific Branch of the Entomological Society of America (ESA), and the 2014 UC Davis Academic Senate Distinguished Teaching Award for innovative and creative teaching. He is a fellow of four professional organizations: ESA, the Gerontological Society of America, the California Academy of Sciences, and the American Association for the Advancement of Science. Carey received his bachelor's degree (animal ecology, 1973) and master's degree (entomology, 1975) from Iowa State University, and his doctorate in entomology from UC Berkeley in 1980.



Dr. Carey will provide a talk on the science and policy of invasion biology.

Tracey Cooke serves as the Executive Director of the Invasive Species Centre. Through her work with the Ontario Ministry of Natural Resources and Forestry, Ducks Unlimited Canada and consulting in the private and not-for-profit sectors, she brings expertise in partnership development and stakeholder relations. Tracey is skilled at forging and nurturing partnerships through collaboration, and is an enthusiastic communicator, facilitator and fundraiser. Tracey holds a Bachelor of Environmental Studies in Environment and Resources Studies from the University of Waterloo.



Ms. Cooke will serve as the facilitator for a panel that examines the specific challenges related to invasive pests.

Rick Cooksey is currently the Acting Director for Forest Health Protection in State and Private Forestry, US Forest Service, in Washington DC. He has worked for the Forest Service for 26 years and held posts as Legislative Affairs, Deputy Forest Supervisor for the Medicine Bow and Routt National Forest in Wyoming, and recently as Director for State and Private Forestry for the Rocky Mountain Region in Denver, CO. Rick has a Masters of Science in Forestry from the University of New Hampshire.



Mr. Cooksey will serve on a moderated panel discussing the political realities of managing invasive arthropods.

Jennifer Cory is a Professor in the Department of Biological Sciences at Simon Fraser University (SFU) in Burnaby, British Columbia. She earned her D.Phil. at Oxford University and worked for 18 years at the NERC (Natural Environment Research Council) Institute of Virology and Environmental Microbiology in Oxford, UK, before moving to Canada, first as a Canada Research Chair and then as the Thelma Finlayson chair in Biological Control at SFU. She is an insect ecologist, specializing in disease ecology, multi-trophic interactions and biological pest control in both agriculture and forestry. She is the current President of the Entomological Society of British Columbia, Director of the Masters in Pest Management program at SFU and a Fellow of the Royal Entomological Society (UK).



Dr. Cory will serve on a moderated panel of entomological society leaders from around the world who have been active in the Grand Challenges movement.

Stephen Dobson is a Professor at the University of Kentucky, Department of Entomology and CEO of MosquitoMate, Inc. A key focus of his work relates to developing novel tools to control medically important mosquitoes. Stephen completed an Entomology PhD at Berkeley, followed by a postdoctorate at the Yale University Department of Epidemiology and Public Health. In 1998, he began at the University of Kentucky (UKY) as a Medical Entomologist, and he has worked steadily toward developing the *Wolbachia* pesticide approach against mosquitoes. In 2010, Stephen founded MosquitoMate, Inc. based on UKY-patented Wolbachia technology.



Dr. Dobson will provide a Perspectives Talk.

Timothy Ebata is the Provincial Forest Health Officer for the Province of BC's Ministry of Forests, Lands, Natural Resource Operations and Rural Development based in Victoria reporting to the Deputy Chief Forester. I manage and administer the provincial forest health program that conducts an annual aerial overview survey over 80% of the province, conducts surveys and treatments for bark beetles and defoliators and carries out pest impact surveys. I also chair the BC Gypsy Moth Technical Advisory committee that guides the province's efforts to keep BC gypsy moth free and I have 20 years of firsthand experience in preventing an important invasive forest pests from becoming established.



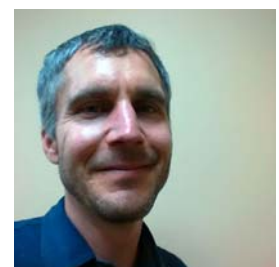
Mr. Ebata will serve on a moderated panel that examines the invasive forestry pests of British Columbia.

Nancy Furness is a Senior Program Officer (Forestry Products) with the Plant Health and Biosecurity Directorate of the Canadian Food Inspection Agency and has been with the Agency for about twelve years. The Forestry Section is responsible for the development and implementation of phytosanitary programs and policy with respect to the import and export of a wide range of Forest Products. Responsibilities include resolving challenging issues to maintain market access while ensuring safe, global movement of Forest Products. Nancy holds a PhD in Plant Physiology from the University of British Columbia where she taught and conducted research prior to joining the Canadian Food Inspection Agency. She is a founding member of PoCo Heritage Trees, a community-based group which advocates for a healthy urban forest.



Dr. Furness will serve on a moderated panel that discusses the technical challenges to overcome when managing invasive pests that cross international borders.

Bruno Gallant is a Senior Legislative Officer with the Canadian Food Inspection Agency's Invasive Alien Species and Domestic Programs section. Since starting with the CFIA in 2006, he has been involved in different regional, national and international initiatives related to the CFIA's implementation of the Invasive Alien Species Strategy for Canada. In the past years, Bruno's main focus has been on the design and delivery of plant protection requirements concerning the import, domestic transfer and handling of invertebrates and micro-organisms that present risks to plant health in Canada, including biological control agents.



Mr. Gallant will serve on a moderated panel discussing the political realities of managing invasive arthropods.

C. David Gammel, FASAE, CAE, is the Executive Director of the Entomological Society of America, headquartered in Annapolis, Maryland, USA. He is a recognized author and thought leader in the association industry and currently serves as an officer on the Board of Directors of the Council of Engineering and Scientific Society Executives. He is also a past board member for the American Society of Association Executives (ASAE) and the ASAE Foundation. Gammel was named a Fellow of ASAE in 2018 and holds the Certified Association Executive designation. He has a Master of Arts in International Communication from American University in Washington, DC, and a Bachelor of Arts in International Studies from Miami University of Ohio.



Mr. Gammel will serve in several speaking roles introducing various speakers and topics. Additionally he will serve as the moderator for a panel of international entomological society leaders.

Roy Hamblin is a Chief Agriculture Specialist for the Area Port of Seattle. He has served in this position since July 2015. He manages the Agriculture Operations within the Maritime and Trade Environments of the Area Port of Seattle. He oversees and is responsible for managing 41 Agriculture Specialist and Supervisory Agriculture Specialist throughout the ports of entry within the Area Port of Seattle. Formally, he was a Supervisory Agriculture Specialist at the Dallas/Fort Worth International Airport where he managed the Agriculture Passenger Operation with oversight over 43 Agriculture Specialist. He has over 13 years of experience and service with U.S. Customs and Border Protection. Chief Hamblin holds a Bachelor of Science Degree in Ag Business, Science, and Technology from Brigham Young University-Idaho.



Mr. Hamblin will provide a talk on port operations and the real world challenges faced by border control professionals.

Graham Head is a senior scientist at Bayer Crop Science, one of the sponsors of this summit, and whom he represents here. He received his Ph.D. from Princeton University. At Bayer, he leads the Global Resistance Management Team within Regulatory Sciences and based in St Louis, working on the design and implementation of insect and weed resistance management programs. In 20 years at Monsanto and now Bayer, Graham has worked on the development of, and risk assessment for, a wide variety of pest control technologies, many of which targeted globally important invasive pests.



Dr. Head will provide a brief talk on Bayer's efforts to manage invasive species.

Heikki Hokkanen is emeritus professor of agricultural zoology at the University of Helsinki, Finland. He holds a PhD in applied entomology (1983) from Cornell University, Ithaca, NY, USA. He has a long track record of coordinating international collaborative research, including at the OECD Directorate for Agriculture in Paris. Hokkanen has participated in and/or coordinated numerous EU-research and ERA-NET projects. He is a member of the national Plant Protection Advisory Board, Ministry for Agriculture and Forestry; the Editor-in-



Chief of the journal *BioControl* (1997-2006); Founding EiC of the journal *Arthropod-Plant Interactions* (2006-), and editor of the book series on 'Progress in Biological Control', all by Springer. He is also an Honorary Member of the International Organization for Biological Control and the President of the forthcoming 26th International Congress of Entomology (ICE2020Helsinki, 19-24 July 2020).

Dr. Hokkanen will serve on a moderated panel of entomological society leaders from around the world who have been active in the Grand Challenges movement.

Anthony Hopkin received his Ph.D from the Department of Botany at the University of Manitoba in 1986. He worked as an NSERC Fellow at the Northern Forestry Centre on pine stem rusts under Dr. Yasu Hirtasuka from 1986 to 1989. He then took a position as a research scientist in forest pathology at the Great Lakes Forestry Centre (GLFC) in Ontario, with the then Forest Insect and Disease Survey. He moved into the position of science Director at GLFC in 2005, and later as Director of Entomology and Phytosanitary research in Victoria BC. In his capacity as a scientist and research director, Anthony has worked closely with the CFIA and various provinces to address issues related to forest alien species.



Dr. Hopkin will provide a keynote talk and also serve on a moderated panel discussing the political realities of managing invasive arthropods.

Tracy Hueppelsheuser serves as a co-chair for this summit. Additionally, as provincial entomologist for the British Columbia Ministry of Agriculture, Tracy's work focuses on biology and pest management of established and invasive insect species that impact BC agriculture. This includes insect identification, outreach and extension activities, policy and regulation development, and some surveillance. The Ministry works closely with other organizations with similar mandates and goals.



Ms. Hueppelsheuser will serve on a moderated panel that examines the invasive forestry pests of British Columbia and also lead the discussion in one of the breakout sessions.

Leland Humble is a Research Entomologist in the Phytosanitary and Market Access Research Group of the Canadian Forest Service, Natural Resources Canada, in Victoria, British Columbia, Canada. After obtaining a Ph.D. from the University of Victoria, he supervised the insect diagnostic laboratory of the Forest Insect and Disease Survey for a decade. Since 1995, his research has focused on developing surveillance systems for non-indigenous forest pests in the interface between urban and working forests, as well as determining the geographic and host ranges of new introductions in western Canada. His current research focusses on developing and implementing methodologies to determine lethal temperature and time combinations effective for the treatment of pests of phytosanitary concern in wood products.



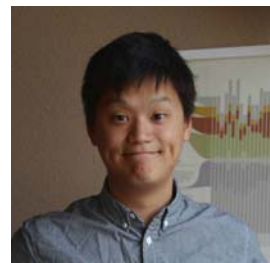
Dr. Humble will serve in several roles, including as a participant on two panels, one that examines the specific challenges related to invasive pests and a second that discusses the political realities of managing invasive arthropods. Further, he will lead one of the breakout sessions.

Andrew “Sandy” Liebhold is a research entomologist with the US Forest Service Northern Research Station, Morgantown, WV with research focusing on the spatial dynamics of insect outbreaks and the population biology of invasions. Liebhold received his PhD in Entomology from the University of California, Berkeley in 1984 and worked as a postdoctoral at the University of Massachusetts before joining the Forest Service. He is a research coordinator at the Czech University of Life Sciences Prague, a fellow of the AAAS and serves on the editorial board of Population Ecology, Biological Invasions and Ecology Letters. He also is an officer with the International Union of Forest Research Organizations.



Dr. Liebhold will provide a Perspectives Talk and also serve on a moderated panel that examines the specific challenges related to invasive pests.

Denny Luan is a co-founder of Experiment, a crowdfunding platform for scientific research. During undergrad Denny engineered circuits out of DNA and was on the University of Washington iGEM team where they won the World Championship in 2011. Inspired by his background in microfinance Denny started Experiment, a Y Combinator backed startup. Experiment's mission is to democratize the research process so anyone can do science. The company mission has been profiled leading publications including Science Magazine, The Economist, and Science Friday. Denny was named on the 2015 Forbes' 30 under 30 list. Bill Gates recognized Experiment as a “solution to close the gap for potentially promising but unfunded projects.



Mr. Luan will provide a talk on innovative funding solutions, using his company as an example.

Patricia McAllister is the Acting Director of the Plant Protection Division of the Plant Health and Biosecurity Directorate at the Canadian Food Inspection Agency (CFIA). Patricia attended the University of Guelph where she obtained a BSc. in horticulture and a MSc. In plant biochemistry. Prior to joining the CFIA in 2009, Patricia spent almost twelve years as the seed potato specialist with the Province of Alberta. While at the CFIA she has worked with the Potato Section, the Plant Biosafety Office and the Horticulture Section and is now responsible for leading the Plant Protection Division which focuses on plant phytosanitary import requirements and domestic programs.



Dr. McAllister will provide a Perspectives Talk.

Jennifer McGuire has worked for the Province of British Columbia since 1991. Her responsibilities have included fish and wildlife management, species at risk, pesticide permitting and integrated pest management, parks management, water quality in the Elk Valley, and the response and remediation following the Mount Polley Tailings Impoundment breach. She is currently leading biologists and professional staff to develop endangered species legislation for BC as well as leading the Professional Reliance review for the Ministry. She is a Professional Agrolgist, as well as a past-President with the BC Institute of Agrolgists.



Ms. McGuire will serve on a moderated panel that examines the invasive forestry pests of British Columbia.

Meghan Noseworthy is a Research Biologist with the Canadian Forest Service Entomology and Phytosanitary Research Group in Victoria, British Columbia. She completed her HBS and MSc in Biology and Ecology at Queens University and Concordia University and has 16 years of experience working in forest entomology. Meghan's work focuses on limiting the introduction and spread of non-native insects into novel habitats. She studies the movement of regulated pests via international trade through monitoring Canadian forests and investigating pest biology. Meghan is a member of the NAPPO Expert Group on Forestry and has recently led the development of the appended scientific explanatory document for the NAPPO Standard, RSPM-41 on The Use of Systems Approaches in Managing Pest Risks Associated with the Movement of Forest Products.



Ms. Noseworthy will serve on a moderated panel that examines the invasive forestry pests of British Columbia.

Robert Nowierski serves as the National Program Leader for Bio-based Pest Management. He provides national leadership for NIFA's research and extension programs in applied ecology, biological control, and invasive species. He is the program director for the Small Business Innovation Research Program: Crop Production and Protection-Biology, and co-directs the AFRI Foundational and Applied Science Program: Foundational Knowledge of Agricultural Production Systems. Bob has been with NIFA for 14 years, and prior to that was a Professor of Entomology at Montana State University in Bozeman, MT for 20 years.



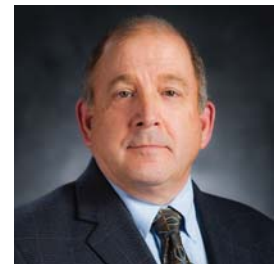
Dr. Nowierski will serve on a moderated panel that discusses the technical challenges to overcome when managing invasive pests that cross international borders.

Randy Olson is a former biologist who earned his Ph.D. in Biology from Harvard University and became a tenured professor of marine biology at the University of New Hampshire. He changed careers in the 1990s, moving to Hollywood, CA where he became a filmmaker and the author of several books on communication and the importance of effective in science. His A-B-T communication model served as the basis for his Story Circles training sessions, his book “Houston we have a Narrative,” and is being used as a tool in developing the outcome report from this summit.



Dr. Olson will contribute to the breakout sessions in addition to providing the closing keynote address.

Michael Parrella is the Dean of the College of Agricultural and Life Sciences at the University of Idaho and the 2018 President of the ESA. He has an undergraduate degree in animal science from Rutgers University and MS and PhD degrees in entomology from Virginia Tech. He took a position as assistant professor in the Department of Entomology at UC Riverside and relocated to the UC Davis campus in 1988. Parrella's background is in developing IPM programs for greenhouse crops with an emphasis on biological control. He is the author of numerous papers in entomology and has received many awards for his work, including the ESA Distinguished Achievement Award in Horticultural Entomology. He was selected as an ESA Fellow and elected to the California Floriculture Hall of Fame by the Kee Kitayama Research Foundation.



Dr. Parrella will serve on a moderated panel of entomological society leaders from around the world who have been active in the Grand Challenges movement.

Ian Pearse received his PhD from UC Davis in 2012. Since that time, he has worked on a variety of research questions regarding plant-insect interactions, particularly concerning species introductions. His current work is for the US Geological Survey, where he has ongoing projects with introduced plants and insects. He has a strong interest in the use of arboretums, botanical gardens, and urban plantings as tools to anticipate problematic invaders in their earliest stages or before arrival.



Dr. Pearse will serve on a moderated panel that discusses the technical challenges to overcome when managing invasive pests that cross international borders.

Eliane Dias Quintela is a Senior Research Entomologist with Embrapa's Rice and Beans Unit in Brazil. Her work involves mitigating the use of pesticides to enhance human life condition in the neotropics agriculture, as well as working on managing bean pests --in particular whiteflies-- in order to implement sustainable pest management programs. She is the current president of the Entomological Society of Brazil.



Dr. Quintela will serve on a moderated panel of entomological society leaders from around the world who have been active in the Grand Challenges movement.

Robert Rabaglia is currently National Entomologist for US Forest Service, Forest Health Protection in Washington DC. He has been with the Forest Service since 2005 and coordinates national forest insect projects across the country. He coordinates national funding and policy for projects such as gypsy moth, southern pine beetle and hemlock woolly adelgid. Prior to joining the Forest Service, he was forest entomologist in Maryland for 18 years. He received his MS and PhD degrees in entomology from the State University of New York, College of Environmental Science & Forestry in Syracuse, NY.



Dr. Rabaglia will serve on a moderated panel that discusses the technical challenges to overcome when managing invasive pests that cross international borders.

Sonny Ramaswamy assumed the presidency of the Northwest Commission on Colleges and Universities (NWCCU) in Redmond, WA on July 1, 2018. NWCCU accredits institutions in the seven-state Northwest region of the U.S.A. and also recognizes higher education institutions in Canada. Prior to this, Sonny served for six years as President Barack Obama's appointee as the Director of the National Institute of Food and Agriculture (NIFA) in Washington, DC, which catalyzes transformative discoveries, education, and engagement to solve societal and agricultural challenges. Previously, he held a number of academic positions, including: dean of Oregon State's College of Agricultural Sciences; director of Purdue's Agricultural Research Programs; university distinguished professor and head of Kansas State's Entomology Department; and professor of entomology at Mississippi State. Sonny received his Bachelor of Science in agriculture and Master of Science in entomology from the University of Agricultural Sciences, Bangalore, India. His doctorate is in entomology from Rutgers University.



Dr. Ramaswamy will deliver a talk on the changing political dynamics which presents a new paradigm for the international management of invasive arthropods.

Catherine "Caydee" Savinelli represents one of the summit sponsors, Syngenta. She is the Pollinator and IPM Stewardship Lead at Syngenta. In this role, she leads the development and implementation of strategies and tactics for pollinator health and stewardship, integrated pest management, insect resistance management and biodiversity conservation initiatives. She is also leading Syngenta's Operation Pollinator program along with its research and implementation efforts. She has focused on pest management, product development and crop production throughout her 34 year career and has worked in the U.S., Europe and Latin America. Caydee holds a Ph.D. in Entomology with a minor in Crop Science from North Carolina State University, a M.S. in Entomology from The Pennsylvania State University and a B.A. in Biology from Gettysburg College.



Dr. Savinelli will provide a brief talk on Syngenta's efforts to manage invasive species.

Nancy Schellhorn is a co-inventor and co-founder of RapidAIM Insect Sensing Technologies, a service of real-time pest maps for targeted insect pest control and evaluation, an essential tool in insect detection and monitoring, pest data consumption and communication, and coordinated pest control. Prior to RapidAIM, Nancy was a Principal Research Scientist with CSIRO in Brisbane Australia where she developed and lead concepts to achieve pest-suppressive landscapes focusing on the movement of entomophagous arthropods. She has contributed to many national and international committees and advisory panels and served 10 years on the Federal Office of Gene Technology Regulator (OGTR) Technical Advisory Committee, the GRDC National Grains Pest Advisory (GPAC) Committee, the Cotton Industry Bt Technical Advisory Committee, and the OECD Integrated Pest Management Advisory Committee.



Dr. Schellhorn will provide a Perspective Talk.

Samantha Simon became the Department of Interior's Senior Invasive Species Coordinator on October 30, 2017. In this role, she maintains Departmental liaison responsibilities for invasive species initiatives and program goals, and coordinates internal Departmental activities related to invasive species. She serves as a resource to the internal and external partners and stakeholders to accomplish key initiatives designed to eliminate the risks that exotic pests and invasive species pose to American agriculture, forests, and grasslands. Ms. Simon also serves as the USDA Liaison to the National Invasive Species Council (NISC). She has previously served as the Director for both the Federal Grain Inspection Service's (FGIS) Field Management Division and Quality Assurance and Compliance Division.



Ms. Simon will provide a keynote talk and also serve on a moderated panel discussing the political realities of managing invasive arthropods.

Sandy Smith serves as a co-chair for this summit and is a Professor in the Faculty of Forestry at the University of Toronto, serving as Interim Dean (2010-2012). She specializes in forest health, urban forestry, and is a leading expert in the ecology and biological management of invasive forest species. She is cross-appointed to the School of the Environment, UTSC, and Dept of Ecology & Evolutionary Biology (EEB), University of Waterloo, and Algoma University. She is a Minjiang Scholar (China), Past-President of the Entomological Societies of Canada and Ontario, a Fellow of the Royal Entomological Society (UK), a strategic advisor for LEAF (Local Enhancement & Appreciation of Forests) and Ontario's Invasive Species Centre.



Dr. Smith has several speaking roles, including as a participant in a moderated panel on the challenges of invasive species. She will also serve as a co-facilitator of one of the breakout sessions.

Helen Spafford serves as a co-chair for this summit. She is an entomologist who earned her PhD at Utah State University, after which she was faculty at the University of Western Australia, and then the University of Hawaii Manoa. Following her experience as an Entomological Society of America Science Policy Fellow, Helen decided to change her career and is now completing a Masters of Public Administration at the University of New Orleans. She seeks to combine her expertise in invasive species management, and interests in biosecurity, with evidence-based administration in government to protect agriculture and natural systems from new invasive species.



Dr. Spafford has several speaking roles at the summit, including introducing the Perspectives Talks and leading one of the breakout sessions.

Sunil Tewari is a research scientist for Corteva™ Agriscience, Agricultural Division of DowDuPont™, whom he represents for this summit. He is based at the Western Research Center in Fresno, CA. Sunil received his Ph.D. from University of Massachusetts, Amherst and his research focused on insect-plant interactions in the cranberry ecosystem. During his Masters degree at Louisiana State University, Sunil studied the impact of two herbivores on an aquatic invasive plant (common salvinia). In his current role, Sunil is charged with characterization of discovery-stage insecticide and transgenic solutions.



Dr. Tewari will provide a brief talk on Corteva Agrisciences efforts to manage invasive species.

Luke Tilley earned his PhD in entomology at the University of York, working on parasitic wasps as biocontrol agents for horticultural pests. During his time at York, his enthusiasm for insects continued to grow and he became the UK postgraduate representative for the Royal Entomological Society (RES) and organised student entomology conferences and public events, including the first Insect Festival in York which he continues to organise to this day. After a brief stint as the research manager at Stockbridge Technology Centre (STC), North Yorkshire, he returned to the RES in 2012 as the Director of Outreach and Development. In 2015 he became the Executive Director of the Society, a position that he continues to hold.



Dr. Tilley will serve on a moderated panel of entomological society leaders from around the world who have been active in the Grand Challenges movement.

Brian Van Hezewijk is a scientist in the Entomology and Phytosanitary Research Division of the Canadian Forest Service, Natural Resources Canada, in Victoria, British Columbia, Canada. He received his PhD from the University of Alberta in 2002 where he studied how dispersal interacts with landscape patterns to stabilize insect host-parasitoid dynamics. For nearly ten years he worked in the field of classical biological control, examining factors that influence the establishment and growth of small (intentionally) introduced populations of insects. His current research is focussed the spread of invasive insects, how generalist predators can prevent the establishment of exotic forest insects, and how this knowledge can be used to inform the management of invasive species such as the gypsy moth. He is the current chair of the BC Plant Protection Advisory Council.



Dr. Van Hezewijk will serve on a moderated panel that examines the invasive forestry pests of British Columbia.

Gail Wallin is the co-Chair on the Canadian Council on Invasive Species as well as the Executive Director of the Invasive Species Council of British Columbia. Gail attended Simon Fraser University where she earned degrees in History and Biology. In 1983 she founded Management Plus Communications Ltd (MPC), a mediation and facilitation firm focusing on work with non-profits, effective governance, board development, and strategic planning.



Ms. Wallin will serve as the facilitator for all three forestry pest roundtables and also provide a Perspectives Talk.

Frank Zalom is Distinguished Professor of Entomology, Emeritus at the University of California, Davis. He served as Director of the University of California's Statewide Integrated Pest Management Program (UCIPM) from 1986-2002, and was Co-Chair of the Association of Public and Land Grant Universities' National IPM Committee from 1999-2015. Zalom has maintained an active research program on tree fruit, small fruit and vegetable crops pests for almost 40 years, co-authoring over 350 peer-reviewed publications and book chapters and serving as major Professor for 13 PhD students. He is a Fellow of the California Academy of Sciences, the American Association for the Advancement of Science (AAAS), the Entomological Society of America, and the Royal Entomological Society (London). He was President of the Entomological Society of America in 2014. Dr. Zalom is a Co-Chair for the Summit and will provide opening remarks for several sessions.





LIST OF POSTERS

Addressing the North American and Pacific Rim Invasive Insect and Arthropod Species Challenge

The following posters were selected for display at the summit. They will be located on the side of the room in the Waterfront Ballroom of the Fairmont Waterfront Hotel in downtown Vancouver, BC throughout the summit (9-10 November 2018).

To learn more about the event, please see
<https://entomologychallenges.org/vancouver2018/>



Developing an Area-wide approach to management of the Brown Marmorated Stink Bug in Georgian Hazelnuts, a cooperative effort of Industry, University and USDA personnel

Corresponding author: Mulder, Phil, Oklahoma State University, Dept of Entomology and Plant Pathology, 127 Noble Research Centre, Stillwater, OK 74078

Additional authors: Bill Lingren, Trece, Inc., Adair, Oklahoma; J. Chris Bergh, Virginia Tech University, Winchester, VA; Kim Hoelmer, USDA/ARS, Newark, DE; Greg Krawczyk, Pennsylvania State University, Biglerville, PA

Emerging Technologies for Invasive Species Genome Sequencing

Corresponding author: Sim, Sheina, USDA-ARS, 64 Nowelo Street, Hilo, HI 96720.

Additional author: Scott Geib, USDA-ARS, Hilo, HI

Entomological Society of America Plant-Insect Ecosystems Section (ESA – P-IE) Invasive Species Security: Protecting Our National Health, Food Supply, and Environment A Science Policy Field Tour

Corresponding author: Anderson, T.E., Entoniche Consulting, 138 Aleah Ct, Clayton, NC 27520

Additional authors: M. Buffington, USDA-ARS, Washington, DC; G. Krawczyk, Pennsylvania State University, Biglerville, PA; N. Larson, USDA-ARS, Washington, DC; R. Morrison, USDA-ARS, Washington,

DC, M. Willrich-Siebert, Corteva AgriSciences, Greenville, MS; S. Simon, USDA APHIS, Washington DC; M. Wright, Univ. of Hawaii at Manoa, Manoa, HI

Minimizing Introductions via the Wood Packaging Pathway

Corresponding author: Campbell, Faith, Center for Invasive Species Prevention, 8208 Dabney Avenue, Springfield, VA 22152

Additional author: Gary M. Lovett, Cary Institute of Ecosystem Studies, Millbrook NY

National Assessment of Invasive Species in Forests and Grasslands of the United States

Corresponding author: Lopez, Vanessa, USDA Forest Service, 2150 Centre Avenue, Building A, Suite #331, Fort Collins, CO 80526

Additional author: Toral Patel-Weynand, USDA Forest Service, Washington DC, USA.

Rethinking biological control programs as planned invasions

Corresponding author: Moffat, Chandra, Agriculture and Agri-Food Canada, Summerland Research and Development Centre, 4200 Highway #97 South, Summerland, BC V0H 1Z0, Canada

Additional author: Paul Abram, Agriculture and Agri-Food Canada, Agassiz Research and Development Centre, Agassiz, BC, Canada

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Corresponding author: Lovett, Gary, Cary Institute of Ecosystem Studies, PO Box AB, Millbrook, NY 12545

Additional authors: Marissa Weiss, Science Policy Exchange, Petersham, MA; Kathy Fallon Lambert, Science Policy Exchange, Petersham, MA; Faith Campbell, Center for Invasive Species Prevention, Springfield, VA