Charles (Chuck) Bargeron
Associate Director – Invasive Species and Information Technology
Center for Invasive Species and Ecosystem Health
The University of Georgia – Tifton Campus

Chuck is the Associate Director – Invasive Species and Information Technology at the Center for Invasive Species & Ecosystem Health and has a Public Service Faculty appointment in the Department of Entomology at the University of Georgia. A native of Tifton, GA, he graduated from Abraham Baldwin Agricultural College in 1997 with an Associate Degree in Computer Science and received a B.S in Computer Science in 1999, from Georgia Southern University. In 2004, he received an M.S. in Computer Science from Georgia Southwestern State University. He has been with the University of Georgia for 17 years where he has developed web applications, smartphone applications, interactive CD-ROMs, databases and outreach publications. Websites that Chuck has designed for the University of Georgia have been featured twice in Science Magazine, received regional awards for content and design, and have received over 1 billion hits in the last 10 years.

Chuck designed and developed the infrastructure behind Bugwood Images which runs the ForestryImages.org, Invasive.org, IPMImages.org, InsectImages.org and WeedImages.org websites. Recently, Chuck has focused on mapping invasive species and tools for Early Detection and Rapid Response using EDDMapS and smartphone applications. He has developed and released 16 iPhone applications including *IveGot1, Invasive Plants of Southern Forests, Landscape Alternative to Invasive Plants in the Midwest, Outsmart Invasives* and *Forest Pest Insects in North America*. Chuck developed the first smartphone applications released by the U.S. Forest Service, National Park Service and U.S. Fish & Wildlife Service.

Chuck was the Florida Exotic Pest Plant Council Advocate of the Year in 2008 and received the Mid-Atlantic Exotic Pest Plant Council Award in 2009. He is the current President of the National Association of Exotic Pest Plant Councils and Treasurer of the North American Invasive Species Network. In 2012, as part the Everglades Cooperative Invasive Species Management Area, Chuck received the U.S. Department of Interior – Partners in Conservation Award. Chuck has been an invited speaker at over 80 regional and national conferences and co-authored over 20 journal articles and outreach publications.

Chuck, an Eagle Scout, spends his free time helping with his oldest son's Cub Scout Pack and serves a Den Leader, Pack Committee Chair and Charter Organization Representative. He also helps coach little league baseball and Upward basketball. Still the computer geek, Chuck is always on the look for the latest and greatest technology gadgets and still has his first Apple Macintosh computer.

Dr. Joseph Bischoff, American Nursery and Landscape Association (ANLA)

Joe Bischoff is Director of Government Relations with the American Nursery & Landscape Association (ANLA), a Washington, DC-based trade association that represents, through its national grassroots network, over 12,000 firms who grow, sell, install and maintain landscape plants.

Before joining the ANLA staff in February of 2012, Dr. Bischoff was National Mycologist with the Animal Plant Health Inspection Service (APHIS) of the United States Department of Agriculture (USDA). In addition to his role in identifying potential invasive pathogens encountered at ports of entry and providing support to the National Plant Diagnostic Network laboratories (NPDN) in diagnosing new domestic plant pathogen discoveries, Joe was Lead Scientist on the APHIS Intercepted Plant Pathogen Sequence Initiative (IPPSI), developing a sequence database for fungi encountered on imported plants and plant products. He has served on the Plant Pathogens Subcommittee of the Federal Interagency Committee on Invasive Terrestrial Animals and Pathogens (ITAP) and the International Commission on the Taxonomy of Fungi (ICTF).

During his graduate studies at Rutgers University in New Jersey, Joe was a Smithsonian Tropical Research Institute (STRI) Fellow and served as mycological subject matter expert for the Organization for Tropical Studies Introduction to Tropical Biology Course (OTS 02-3). After earning his PhD in 2004, Joe accepted the position of Fungal Taxonomist with GenBank, the National Institutes of Health (NIH) genetic sequence database and was a Visiting Scientist working on the taxonomy and nomenclature of insect biocontrol fungi in the USDA's Systematic Mycology and Microbiology Laboratory in Beltsville, MD.

Joe has authored 30 peer-reviewed journal articles and book chapters, and is a New Jersey Certified Tree Expert (Lic. #394). He currently lives in Chevy Chase, Maryland with his wife and son.

Patrick L. Burch

Patrick L. Burch is a Field Scientist for Dow AgroSciences in Christiansburg, Virginia. Pat received his Bachelor of Science in Forest Management in 1983, Virginia Polytechnic Institute and State University and Master of Science in Forest Biology with emphasis on forest vegetation management in 1985, Virginia Polytechnic Institute and State University. Pat has worked for Dow AgroSciences for 26 years as a biologist and as a technical resource to customers, university cooperators and field sales. Responsibilities in this job have included herbicide research, stewardship, training, and uses in invasive plant control, vegetation management for range and pasture, rights-of-way, forestry, aquatic habitats, and new product development.

Biography of Jerry L. Cook

Dr. Jerry L. Cook has a Bachelor of Science Degree in Geology and a Master of Science Degree in Biology from the University of Southern Colorado. In his Master's program, he worked on the community structure of a spring seepage habitat. For his doctoral thesis work, Jerry conducted a study on the invasive red imported fire ant, *Solenopsis invicta*, and its interaction with a natural enemy, the parasitic strepsipteran *Caenocholax fenyesi*. This work resulted in a Ph.D. in Entomology from Texas A&M University in 1996.

After graduation, Dr. Cook accepted a Post-Doctoral Research position at Texas A&M University and worked on a number of projects related to invasive species. He continued work on the red imported fire ant and was one of the first researchers to collaborate with the United States Department of Agriculture (USDA) to release phorid flies as a biological control of this invasive ant. He also worked on other invasive species, including documenting and studying the first introduction of the ghost ant, *Tapinoma melanocephalum*, to Texas.

After two years as a Post-Doc, Dr. Cook accepted a faculty position at Sam Houston State University (SHSU) in 1999 and is now a Professor in the Department of Biological Sciences. Dr. Cook served as a Program Director at the National Science Foundation for two years while on leave from SHSU. Upon returning to SHSU, Dr. Cook served as Chair of the Department of Biological Sciences and then became the Associate Vice President (AVP) for Research, which is the Chief Research Officer at SHSU. Jerry also has serves as interim Dean of Graduate Studies and interim Dean for the College of Sciences at SHSU.

Throughout his professional career, Dr. Cook has maintained an active research program, focused primarily on invasive species and their biological controls. A sample of his projects include working with an endangered ant species that is being impacted by an invasive ant; working on the newly introduced Rasberry crazy ant; partnering with the pesticide industry to develop and test new products to control pest species; working on the taxonomy and systematics of ants and their parasites; and developing a network in Texas for early detection and rapid response of invasive species in Texas.

In addition to Dr. Cook's personal research program, he has become active in the administration of invasive species management. Specifically, Dr. Cook serves as the Executive Director of the Institute for the Study of Invasive Species (ISIS), the first collaborative institute of the Texas State University System. This effort brings together over 40 Ph.D. level researchers from six campuses throughout the System to study invasive species, making it the only comprehensive center with an invasive species function in Texas. In addition to the large number of faculty researchers at the member institutions, ISIS has five permanent support staff and several graduate student workers that contribute to its operations.

Dr Philip Edward Cowan

I am Science Team Leader, Wildlife Ecology and Management, Landcare Research New Zealand. Landcare Research is a NZ Government owned Research Institute focussed on terrestrial environmental research (www.landcareresearch.co.nz). The Wildlife Ecology and Management Team of 39 staff aims to help protect native ecosystems and primary industry through improved understanding of pest responses to management, and the role of pests as disease carriers. This understanding is used to guide development of better pest management through new and improved management strategies, tools and techniques - ranging from biological control to traps and toxins. Our research covers marsupials (possums and wallabies), mustelids (stoats and ferrets), rodents (rats and mice), ungulates (deer, pigs and thar), birds (rooks and mynas), lagomorphs (rabbits and hares), and diseases as problems (bovine tuberculosis, avian malaria, murine typhus) and as biocontrols (rabbit haemorrhagic disease).

I have worked on a wide range of aspects of management of introduced mammal pests. development of new tools, technologies and strategies for management of vertebrate pests, including fertility control, and animal welfare issues in pest management. I also have a more general interest in biosecurity and invasive species, having previously functioned as biosecurity manager for Landcare Research, and been involved in international invasive species issues.

I have a B.Sc. Hons. (1970 Glasgow) and a Ph.D. (1975 Australian National University) in Zoology. I have been on the management boards of several NZ research consortia, and for six years was a non-executive director of the Australian Invasive Animals Cooperative Research Centre, I also served for 5 years on New Zealand's National Animal Welfare Advisory Committee..

I believe invasive species prevention and management requires better coordination at national and international levels and better exchange of experiences, information and ideas. Having a non-US based member of ISAC provides ISAC and NISC with access to the wider community of invasive species issues and expertise.

I believe the existing links I have to international and US interests in IAS prevention and management will be of value to ISAC. Because of its emphasis on biosecurity, New Zealand is strongly linked in to the international IAS community. I am, for example, a regular invited contributor to international invasive species conferences, and in the past have been involved in various APEC and CBD meetings regarding IAS issues. The WEM team collaborates with the other key global IAS control technology groups at USDA/APHIS National Wildlife Research Center (with whom I established an inter-agency MOU), and the Wildlife Research Group, FERA, UK. I am a working group member of the Pacific Conservation Roundtable, and the Pacific Invasives partnership, and have been involved for a number of years in providing expert advice on IAS issues on Pacific islands. I am Landcare Research's representative on the New Zealand IUCN committee, and an expert member of IUCN's invasive species specialist group.

Outside of work, I play golf and enjoy living a 5 min walk from the beach in New Brighton, a suburb of Christchurch.

Tammy Davis has been the Alaska Department of Fish and Game invasive species program coordinator since 2006. Tammy values working with partners to develop and implement strategies to prevent introduction and spread of invasive species in freshwater and marine ecosystems. Key efforts to increase early detection include supporting citizen scientists for marine monitoring and training natural resource agency staff to identify freshwater invasive species during their field work. Alaska is currently working toward reduction and control of benthic invertebrates in a marine environment. Davis has a Bachelor of Philosophy from Miami University of Ohio, and a plant sciences degree from Montana State University. Davis's interest in invasive species began when working for the U.S. Forest Service investigating cinnabar moths (*Tyria jacobaeae*) as a bio-control on tansy ragwort (*Senecio jacobaea*).

Joe DiTomaso

Joe DiTomaso is a Cooperative Extension Specialist in the Department of Plant Sciences at the University of California, Davis. He was born in Hollywood, California, and raised in the San Fernando Valley of California. He obtained a B.S. from UC Davis in Wildlife and Fisheries Biology and a M.S. at Humboldt State University in plant taxonomy. During this period he also worked for the U.S. Forest Service as a wilderness ranger and then subsequently as a biologist working on rare birds in the rainforests of Puerto Rico.

Following this, Joe returned to UC Davis to complete his Ph.D. in Weed Science in 1986. After a short post-doctoral appointment at Montana State University, he joined the faculty at Cornell University in 1987 in the Crop, Soil and Atmospheric Sciences Department to work on the physiology of herbicide resistance and mode of action. During this time he collaborated with colleagues to write the *Weeds of the Northeast*.

In 1995, Joe accepted an appointment at his alma mater, UC Davis, as a Cooperative Extension Specialist, where his research and extension program focuses on understanding the biology and ecology of invasive plants, and to use this information to develop effective management strategies. During his career he has served as the major advisor for 20 graduate students and on the committee for an additional 17. With his students and colleagues he has published 100 peer-reviewed papers and over 180 extension papers. He has also published two additional weed identification books with Evelyn Healy, including *Aquatic and Riparian Weeds of the West* and *Weeds of California and Other Western States*. Since he began his appointment at UC Davis, he has made over 600 extension presentations.

Joe has served on the Western Society of Weed Science (WSWS) Board of Directors and was the president of the California Invasive Plant Council. He is currently the Acting Chair in his department, Director of the UC Weed Research and Information Center, and the Editor of the new WSSA journal *Invasive Plant Science and Management*. He has received the California Weed Science Society Award of Excellence and the WSWS award for Outstanding Weed Scientist. Other than weed science, he enjoys cooking, wines, and traveling with his wife Sue to Italy.

Short Bio for Otto Doering:

Otto Doering is Professor of Agricultural Economics at Purdue University. His responsibilities include teaching, research, and public service on policy issues relating to agriculture, resources, energy, and the environment. His experience on environmental issues includes involvement in the National Hypoxia Assessment, the National Academies' report on the Mississippi River and the Clean Water Act, the National Research Council's report on Water Implications of Biofuel Production, and service on several EPA advisory committees including EPA's Science Advisory Board. He has held advisory positions with the U.S. Department of Agriculture for the '77, '90, and '96 farm bills, and works with the Natural Resources Conservation Service on the design and assessment of agricultural conservation programs. He has also worked on climate change impacts on agriculture. Otto is a past president of the Agricultural and Applied Economics Association and shares a very small piece of the recent Nobel Peace Prize with the many individuals working on climate change for the Intergovernmental Panel on Climate Change. He serves as an evaluator for the National Science Foundation's Industry/University Cooperative Research Program and works on the energy and environmental trade-offs involved in biofuel production. Otto has degrees from Cornell University and the London School of Economics. In previous lives he has been a wrangler in the Canadian Rockies, prepared cases in the New York City municipal courts, and worked in Southeast Asia for the Ford Foundation.

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Susan Ellis

Susan is an Environmental Program Manager for the Invasive Species and Rare Plant Protection Programs at the California Department of Fish & Game. She has worked for more than 25 years for the Department of Fish and Game on program and policy issues, including, most recently, nine years on invasive species. She served as Incident Commander for the Quagga Mussel Incident and chairs the quagga mussel interagency team. Her program has recently completed and has begun implementation of the California Aquatic Invasive Species Plan
She has also worked on other critical natural resource issues including endangered species, fisheries, aquaculture, land use planning, and the impacts of contaminants on fish and wildlife resources.

She serves on the University of California Water Resources Center Advisory Committee and the State's Light Brown Apple Moth Environmental Advisory Task Force. She is a member and past chair of the Western Regional Panel on Aquatic Nuisance Species and the California-Nevada Chapter of the American Fisheries Society.

Susan has a BS in Biology from the University of Miami and a Master's of Public Administration from California State University, Dominguez Hills.

Jim Furnish

Jim Furnish is currently a consulting forester in the Washington D.C. area following a 34-year career with USDA Forest Service. He served as **Deputy Chief** for our 192 million acre national forest treasure; 9 percent of all lands in the US. He served as Siuslaw National Forest Supervisor in Corvallis, Oregon during the spotted owl crisis, reforming management from timber production to restoration principles. Jim was also a principle Forest Service leader in creating protections for 60 million acres of **Roadless Areas** in 2001. He served 6 years on the Board of Directors for both **Wildlands CPR** and the **Evangelical Environmental Network**, and now serves on the Board of Directors for **Geos Institute**. He also serves on the Advisory Board for the **Western Environmental Law Center** and **Forest Service Employees for Environmental Ethics** both in Eugene, OR.

Bonnie L. Harper-Lore

While working in the nursery industry in the 1980's, she purposefully planted purple loosestrife in perennial gardens. Upon learning her mistake, Bonnie led a coalition making Minnesota the first State to add purple loosestrife to their noxious weed list and set up an exotic species program.

Harper-Lore holds a M.S. degree in restoration and management of native plant communities from the University of Wisconsin-Madison. She taught Ecological Principles of Design at the University of Minnesota so future planners would make informed planting choices. During this time Bonnie also worked in turf management and erosion control for the Minnesota Department of Transportation.

In 1993, Harper-Lore was hired as the manager of the USDOT-Federal Highway Administration's national wildflower program to teach State Departments of Transportation how to use native forbs and grasses on roadsides. Bonnie converted the program to integrated roadside vegetation management (IRVM). She enabled policy changes, partnerships, research, technology transfer and wrote three books to support land managers in vegetation decision-making.

Additionally, Bonnie was a founding member of the Federal Interagency Committee for Management of Noxious and Exotic Weeds (FICMNEW) and a co-writer of Executive Order 13112 on Invasive Species. With FICMNEW's support she created the biennial international conference known as Weeds Across Borders. Harper-Lore is currently a member of the Invasive Species Advisory Committee (ISAC) to the National Invasive Species Council - a long way from her family's Wisconsin farm where she pulled milkweeds and mustard as a kid.

Katherine Howe is the Coordinator of the Midwest Invasive Plant Network (MIPN), an organization hosted by Purdue University and based in Indianapolis, IN that is focused on reducing the impact of invasive plant species in the Midwest. MIPN is a network of public and private agencies, corporations, organizations, and individuals working on invasive plant control, prevention, research, and education across the region.

Katherine has been in her current position since 2005. She has a BA in Biology from Macalester College, an MS in Ecology from the University of Minnesota, and a PhD in Biology from the University of Washington. Katherine also serves on the Executive Committee of the National Association of Exotic Pest Plant Councils and the Advisory Committee of the Great Lakes Phragmites Collaborative.

William Hyatt

Bill is Chief of the Department of Energy and Environmental Protection (DEEP) Bureau of Natural Resources which includes the Inland Fisheries, Marine Fisheries, Wildlife and Forestry Divisions. His prior positions with the Agency include Director of Inland Fisheries, Supervisor of Fisheries Management and Senior Fisheries Biologist. He also served as a Research Associate at the Institute of Ecosystem Studies in Millbrook, NY where he did his graduate research for an MS in Fisheries Biology from the University of Connecticut. Bill is the current chair of the Connecticut Invasive Plants Council, chair of the Association of Fish & Wildlife Agencies Invasive Species Committee, and is Treasurer of the Northeast Association of Fish & Wildlife Agencies. Bill has also served as President of the Southern New England Chapter of the American Fisheries Society, President of the Northeast Division of the American Fisheries Society, chair of the Northeast Fisheries Administrators Association, and is the current chair of the Connecticut River Atlantic Salmon Commission.

Biographical Sketch

Dr. Phyllis E. Johnson

Dr. Phyllis Johnson has extensive experience working with issues related to invasive species over the past eighteen years. As a senior executive for the USDA Agricultural Research Service (ARS) from 1991 to 2008, she managed researchers in the fields of ecology, entomology, mycology, environmental sciences, agronomy, weed science, plant pathology, nematology, systematics/taxonomy, and climate change, all relevant to the problem of invasive species. She is currently the Vice President for Research and Economic Development at the University of North Dakota, which has many similar research programs.

While at ARS as the Director of the Beltsville Agricultural Research Center (BARC), Dr. Johnson recognized the importance of systematics and taxonomy to the prevention of invasive species. Almost 80% of all research in systematics and taxonomy within USDA is located at BARC; these programs are critical for support of APHIS. Approximately 10,000 specimens/year from ports of entry are identified by BARC scientists. Dr. Johnson convened a Systematics Summit to consider the future for systematics and taxonomy at BARC. This Summit led not only to a plan for systematics at BARC, but provided Dr. Johnson the opportunity to brief the White House Office of Science and Technology Policy (OSTP) on the status of the discipline of systematics nationally. A major outcome of this discussion was that OSTP convened an Interagency Working Group on Scientific Collections, with Dr. Johnson as a Co-Chair (2005-2008). Scientific collections are a fundamental requirement for practitioners of systematic and taxonomy in the identification of unknown organisms and risk assessement for new organisms based on prediction of their behavioral characteristics. This working group issued a report in January, 2009, "Scientific Collections: Mission-Critical Infrastructure for Scientific Agencies," http://www.ostp.gov/cs/nstc/documents_reports. Upon leaving USDA in 2008, Dr. Johnson was appointed as a Research Associate at the Smithsonian Institution so that she could continue to work on these issues. She was also named as a US Government representative to an OECD Global Science Forum task group on policy issues related scientific collections (2006-present).

Several BARC scientists participate in the ITAP (Invasive Terrestrial Animals and Pathogens) Interagency Working Group, and Dr. Johnson also worked with them on preparing a report on the importance of systematic to invasive species issues, "Protecting America's economy, environment, health, and security against invasive species requires a strong Federal program in systematic biology," http://www.itap.gov/nal_web/itap/docs/itap_report_Mar23.pdf.

Dr. Johnson also took steps to eradicate invasive species from BARC's 6500 acres. When wavy-leaf basket grass was found in the area in 2007, she immediately directed a survey of BARC's acreage. The survey resulted in identification of wavy-leaf basket grass at several locations; it was eradicated with herbicides and monitored for regrowth.

While Director of BARC, Dr. Johnson spoke to several regional invasive species meetings and to ISAC, about the relationship of systematic and taxonomy to both the prevention and biocontrol of invasive species. She also conceived and organized a forum on invasive species that brought the landscape and nursery industry together with conservation and environmental groups at the US National Arboretum in 2008. These two stakeholder groups have many common concerns but each had been unwilling to meet on the other's turf. The subsequent report and outline of research needs was subsequently adopted by ISAC.

Biography for Eric Lane

Eric Lane is the Director of the Conservation Services Division of the Colorado Department of Agriculture. In this capacity, he guides programs related to noxious weed management, biological control development and implementation, groundwater protection, and the oversight and development of conservation districts in Colorado. Under the present administration, Eric is also actively engaged in developing the new energy economy (renewable energy and energy efficiency), especially in the rural, agricultural areas of the state, leading the agency's greening government initiative, and coordinating the agency's efforts in government efficiency management.

Eric joined the Colorado Department of Agriculture as the state weed coordinator in 1996. His work focused on improving state and federal agency policies and actions regarding weed management, assisting local government weed managers, and facilitating the development of weed management areas across the state to protect natural and agricultural systems.

Before joining the Department, Eric attended the School of Natural Resources and Environment at the University of Michigan and completed a Master's of Science with a focus on natural resource policy. His thesis, developed for and supported by The Nature Conservancy, created a model weed management program for Conservancy preserves that specifically addresses the social implications of controlling weeds across the local landscape.

Eric also holds a B.A. in Biology from Swarthmore College and worked for a number of years as a ecologist specializing in ornithological field research that examined the population dynamics and habitat requirements of western migratory songbirds.

When not working professionally on natural resource issues, Eric enjoys most of what Colorado has to offer through skiing, backpacking, and cycling.

Janis E. McFarland, Ph.D.
Head of Regulatory and Stewardship, North America
Syngenta Crop Protection, LLC
Greensboro, North Carolina

Janis McFarland is the Head of Regulatory and Stewardship, North America for Syngenta Crop Protection, LLC. Janis began her career as a metabolism chemist for Ciba-Geigy in 1986 and subsequently worked in several areas of biochemistry, environmental studies and product safety. She was Director of Agricultural Stewardship for Novartis Crop Protection prior to her current role as Head of Regulatory and Stewardship responsible for registrations and stewardship of Syngenta's insecticides, fungicides and herbicides.

Janis currently serves on EPA's Farm, Ranch and Rural Community Federal Advisory Committee; the Board of Directors for Trees Forever (a non-profit organization responsible for planting more than 1.5 million trees in Iowa and Illinois to improve water quality and the environment) and North Carolina 4-H Development. Janis is a Fellow in the Weed Science Society of America, an active volunteer in CropLife America and in 2010 received a Purdue University Distinguished Agriculture Alumni Award.

Janis received her B.S. degree in Biology from Virginia Tech and her M.S. in Plant Pathology (molecular virology) and Ph.D. in Plant Physiology (herbicide modes of action) from Purdue University.

Mills Biographical Sketch

Dr. Edward L. Mills is currently professor in the Department of Natural Resources, College of Agriculture and Life Sciences, Cornell University and Director of the Cornell University Biological Field Station. He has served on the New York State Invasive Species Task Force and was recently appointed to the New York Great Lakes and Oceans Science Advisory Board and the New York State's Invasive Species Advisory Council. He and his colleagues have published over 140 peer-reviewed articles on a wide range of topics including predator-prey interactions, biological invasions, and food web linkages in freshwater lake ecosystems. His research interests include areas of limnology, freshwater food webs, ecology of large lakes including the Great Lakes, and biological impacts of aquatic invasive species. Mills was presented in 2005 the Christie/Loftus award by the Great Lakes Fishery Commission for outstanding leadership, for strengthening the ecosystem approach to science and fisheries management, and for his many innovative contributions to Great Lakes research. He was also presented the Dwight A. Webster Award of Excellence, Northeast Division of the American Fisheries Society in 2001 for his significant contributions to fishery science.

Marshall Meyers

An attorney involved with myriad wildlife and environmental issues before the Department of Interior, the Department of Agriculture, the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES), the Convention on Biological Diversity (CBD), the European Union, the Federal Government and all 50 states.. On behalf of the pet industry over the past 40 years, focused on legislative and regulatory matters affecting acquisition, transport, sale, possession and care of companion animals and wildlife. These issues span animal welfare, humane transport, endangered species, injurious wildlife, wild harvest and captive propagation of native/nonnative species, invasive species, wildlife regulation, import/export, international regulation of animals, and other animal related issues.

Attempted to retire to 50% of his time with pet industry, but that has yet to occur even though stepped down as Executive Vice President and CEO of the Pet Industry Joint Advisory Council (PIJAC). Currently is a Senior Consultant with PIJAC, serves as Chair of the International Air Transport Association's (IATA) Live Animals and Perishables Board's Advisory Committee., and is a member of several ANSTF Regional Panels. Attended 14 of the 15 CITES Conferences of the Parties and numerous Animals Committee meetings as well as serve on several CITES working groups. Former ISAC member, 2000-2006.

CAROL OKADA

Hawaii Department of Agriculture

Carol Okada is currently working on Hawaii's Biosecurity Program under the direction of the Chairperson of the Board of Agriculture.

Ms. Okada graduated from the University of Hawaii at Manoa with a Bachelors of Science degree in Horticulture. She joined the Hawaii Department of Agriculture as a Plant Quarantine Inspector in 1986 and was promoted to Plant Specialist in 1990, where she provided technical expertise in Hawaii Orchid Growers' Association versus the United States Department of Agriculture litigation, on the issues of: 1) federal preemption; 2) orchid pests and diseases; and 3) states ability to inspect and quarantine commodities of foreign origin.

She also worked directly with state's legal counsel, USDA's FOIA office, and USDA's Biotechnology Regulatory Services in Riverdale, Maryland on a biotech litigation involving state's ability to protect confidential business information.

In 2000, Ms. Okada planned, implemented, and supervised Maui's Kahului Airport Risk Assessment. The risk assessment, which was mandated by the FAA Record of Decision, studied the movement of alien invasive species from the continental United States and foreign areas to Kahului Airport. The Kahului Airport Pest Risk Assessment involved intensive inspections of all baggage by inspectors and detector dog teams; inspections of aircraft cabins and cargo holds, and 100% inspections of agricultural products shipped by air cargo.

Ms. Okada was promoted to Maritime Supervisor in 2004 and to Manager in 2005. During this time, she was the state's expert witness on invasive species impacts and mitigation measures for the Hawaii SuperFerry litigation.

As manager of the statewide branch with six (6) port offices, responsibilities include: supervision of inspectors, staff, programs, implementation of the Biosecurity program, legislative coordination, program funding, industry analysis, County and Federal coordination, and pest management programs. In addition, she chaired the Coordinating Group of Alien Pest Species (2011-2012), and the Hawaii Invasive Species Council (HISC) Prevention Working Group. She has worked in the following areas:

- Statewide port evaluations to evaluate staff, determine invasive species pathways and risks, and provide recommended mitigation measures and worked with USDA on the "*Pathway Analysis of Invasive Species Introduction into the State of Hawaii*"
- Emergency preparedness plans to interdict introductions of animal and plant pests
- Planning and preliminary design for proposed "joint-use" inspection facilities
- User fees to fund the implementation of the Biosecurity program.
- Commodity assessments to determine risk level of imported agricultural imports; and import replacement program to replace high-risk imports
- Rapid and accurate identification of potential pests arriving in Hawaii to be accessible via the Barcode of Life Data System
- Pest Management programs, which combines field pest management practices and inspection/postharvest treatment into a unified system to produce pest-free products

BIO – Stephen Phillips

Stephen Phillips is a Senior Program Manager at the Pacific States Marine Fisheries Commission (located in Portland Oregon) where he has worked for over 17 years. For the last 10 years his main responsibility has been management of PSMFC's Aquatic Nuisance Species Project.

The PSMFC ANS Project has been the lead entity in undertaking numerous region-wide ANS projects, including educational efforts aimed at the fishermen and boaters, the development of regional ANS watercraft decontamination standards, the establishment of a regional watercraft decontamination training program, production of the "Don't Move a Mussel" video and the "Invasive Species News in a Nutshell" newsletter, and implementation of coordinated regional monitoring efforts for dreissenid mussels, mitten crab, green crab and Atlantic salmon.

Mr. Phillips has been the lead (along with the US Fish and Wildlife Service) in the development and implementation of the "Columbia River Basin Interagency Invasive Species Response Plan: Zebra Mussels and Other Dreissenid Species." The purpose of this multijurisdictional plan, signed by the states of Washington, Oregon, Idaho and Montana, Columbia River Inter-Tribal Fish Commission and US Fish and Wildlife Service, is to coordinate a rapid, effective, and efficient interagency response in order to delineate, contain, and when feasible, eradicate zebra, quagga, and other dreissenid mussel populations if they are introduced in Columbia River Basin waters.

Mr. Phillips has also worked on the marine offshore aquaculture issue as concerns have been raised by PSMFC member states, the fishing industry, and conservation community about potential environmental impacts from aquaculture operations, including introduction of invasive species. work has included several white papers on marine aquaculture and its environmental impacts.

Since 2002, PSMFC has administered the Pacific Ballast Water Group (PBWG). The PBWG, serves as a coordinating body to share information and formulate consensus solutions on ballast water management and to research issues that concern the shipping industry, regulators, managers, scientists and entities on the West Coast (Canada, California, Oregon, Washington and Alaska).

Mr. Phillips has also participated in other regional ANS management and planning efforts including the National Management Plan for the Genus *Eriocheir* (mitten crabs), the Management Plan for the European Green Crab, Quagga Zebra Mussel Action Plan for Western Waters, the Canadian Rapid Response Framework for Aquatic Invasive Species. Mr. Phillips also chairs the Columbia River Basin Team of the 100th Meridian Initiative.

Prior to the ANS project, Mr. Phillips worked as a habitat biologist for the PSMFC. Mr. Phillips received his Bachelor's in Biology from Baldwin Wallace College (Berea, Ohio) in 1979 and a Master's of Fisheries Science from Oregon State University in 1987.

Biographical Sketch, David F. Reid

David Reid has a Ph.D in oceanography from Texas A&M University (1979). He was a civilian research oceanographer with the Department of Defense for 16 years before moving to the National Oceanic and Atmospheric Administration's (NOAA) Great Lakes Environmental Research Laboratory (GLERL) in Ann Arbor, Michigan. During his 25-year tenure with NOAA he served as Assistant to the Director as well as Acting Division Head of the Biogeochemical Sciences Division. He was also Principal Investigator for numerous projects related to Great Lakes bathymetry, ballast water as a vector for nonindigenous aquatic species introductions to the Great Lakes, and the development of a Great Lakes nonindigenous species database.

The ballast water research program David established, with numerous other co-PIs, addressed the issue of residual ballast water and sediments in "NOBOB" (no ballast on-board) ships entering the Great Lakes. It resulted in implementation of regulations that further reduced the risk of invasive aquatic species introductions to the Great Lakes via ballast discharge. He was awarded the Department of Commerce Bronze Medal in 2002 and Gold Medal in 2008 for this work. He also initiated a project to compile Great Lakes aquatic nonindigenous species information into a "one-stop shopping" database, resulting in the establishment of the Great Lakes Aquatic Nonindigenous Species Information System (GLANSIS; http://www.glerl.noaa.gov/res/Programs/glansis/glansis.html)

David served on the ANS Task Force National Research Protocol Committee from 1991-1994 and participated in developing the "*Protocol for Evaluating Research Proposals Concerning Nonindigenous Aquatic Species*" (1994). He joined the ANS Task Force Research Committee as NOAA research representative from 2005 – 2009 and served as Chairperson for 2008 and 2009, during which he led revision of the Research Protocol, resulting in the "*Federal Aquatic Nuisance Species (ANS) Research Risk Assessment Analysis Protocol*" (2010). David also served on the NOAA-wide Aquatic Invasive Species Program senior management team from 2004 until his retirement in 2010.

He keeps up with developments associated with invasive species and (especially) ballast water as an independent science consultant to the St. Lawrence Seaway Development Corporation.

Tim Schaeffer is Director of Policy and Planning for the Pennsylvania Fish and Boat Commission (PFBC). In this role, he oversees the development, implementation, and tracking of the agency's strategic plan and leads the advancement of legislative priorities. A large part of his work involves identifying and advocating for alternative revenues for sustaining agency infrastructure and operations. Recent accomplishments have included focusing attention on the need to control the spread of Asian Carp in the Ohio River Watershed, securing enactment of tougher poaching penalties, helping the PFBC receive dedicated funding to support its work related to the natural gas industry in Pennsylvania, passage of a bill giving the PFBC the ability to offer creative fishing license packages to anglers, and ensuring that revenues from taxes on motorboat fuel are reinvested in projects and programs that benefit Pennsylvania boaters. He has served on a number of local, statewide, and national boards, including a current appointment to the National Invasive Species Advisory Committee. Outside of the office, he is a member of the New Cumberland Borough Planning Commission and a board member and coach for the New Cumberland Youth Baseball Association.

Dr. David E. Starling

Dr. Starling created and is the President of Aqueterinary Services®, PC. The professional corporation established in 2002 has a trade name registered internationally for the three areas of clinical practice, research, and teaching. This year Aqueterinary Services®, PC tendered the successful contract for Viral Hemorrhagic Septicemia virus surveillance in Iowa waters as part of USDA's efforts to define the extent of the virus in the nation's fisheries.

Involvement in invasive species has been part of Dr. Starling's work since graduating from veterinary school at Iowa State University in 1975 with a Doctor of Veterinary Medicine. The constant awareness of what is native and what is foreign is, of course, a large part of successful animal disease and pest control. The nearly three year's time spent working with the New Zealand Ministry of Agriculture and Fisheries brought a greater focus on invasive species since the island-nation enjoys one of the most isolated and pristine environments and eco-systems in the world. Their extraordinary effort actively maintains their isolation and keeps any potential invaders offshore.

From 1983 until retirement in 2005, Dr. Starling worked in numerous capacities in USDA. He fully understands the cost and consequences of foreign diseases and pests as he served on several emergency task forces to eradicate foreign animal diseases; and, worked as part of the nation's regulatory veterinary force to control and/or eradicate the unwanted diseases of brucellosis, tuberculosis, scrapie, pseudorabies, screwworm and other undesirables from our nation's animal populations. In his 23 years of service in USDA, he gained national and international working experience in regulating the production of biologics and diagnostic test kits for protecting our animals from pathogens, parasites, and other pests.

Dr. Starling welcomes opportunities to consult in areas of animal health improvement through biosecurity and preventative medicine and custom vaccines for livestock and wildlife. The aquatic animal health course jointly produced by the College of Veterinary Medicine and the Department of Natural Resource Management at Iowa State University has been rewarding for Dr. Starling from his request to create it in 1998. His recent membership on American Veterinary Medical Association's leadership committees for Aquatic Veterinary Medicine and Environmental Issues has made him familiar with a broad range of issues surrounding livestock health and wildlife preservation. He is a founding member of the World Aquatic Veterinary Medicine Association and Advisor to the Aquatic Livestock Alliance. He welcomes the applications of HACCP concepts to prevention and control of invasive species since he has seen them successfully applied to many areas for increased uniformity, better predictability, and defect detection or prevention.

In his seldom-acquired spare time, there is a fascination with traveling to less developed countries as was done in Kazakhstan for six weeks this year to offer his expertise in public health, animal disease control and sanitary certificates surrounding translocation and commerce of animals and their products. He and his wife, Judy, currently take residence in Ames, Iowa. They have somehow accomplished all of the above while raising four children, which have now provided four delightful grandchildren. Dr. Starling has come to understand that life is what happens while making plans.

Nathan Stone

Nathan works as an Extension Fisheries Specialist IV & Section Leader with the Aquaculture/Fisheries Center of Excellence, University of Arkansas at Pine Bluff. He received his B.S. from Cornell University and his M.S. and Ph.D. degrees from Auburn University. He supports extension programming in the areas of aquatic nuisance species, aquaculture, water quality, effluents, farm pond management and alternative & small-scale production. His research program focuses on baitfish hatchery technologies, nutrient management, feeding strategies, and water quality.

Arkansas produces and ships billions of live bait and ornamental fish each year, and Nathan works with the Arkansas Bait and Ornamental Fish Growers Association on programs to prevent the introduction or spread of diseases and aquatic nuisance species. He assisted the producer association and the Arkansas Department of Agriculture in the development of the bait and ornamental fish certification program. The program provides for third-party verification of farm-level fish disease inspections, biosecurity plans, and farm inspections for aquatic nuisance species. Nathan also served on the national Asian Carp Working Group and on the core group of the Arkansas ANS Task Force.

A native of up-state New York, Nathan served as a Peace Corps volunteer in the Philippines, and worked as a visiting professor in Nicaragua and Panama. In his twenty-five years in Arkansas, he has enjoyed the privilege of working with fish farmers, county Extension agents, and farm pond owners. Nathan is married to Dr. Carole Engle, with whom he has had numerous professional and personal collaborations, including three children: Reina, Eric and Cody.

John Peter Thompson
Invasive Species & Sustainability Consultant
Ecosystem Services
Advocacy & Consulting
Bringing People, Programs & Policies Together

Biographical Sketch

John Peter Thompson, born in California, has lived in Maryland for the last 52 years. He studied music composition and historical linguistics at the University of Maryland. He is currently a self employed contractor and consultant working with USDA ARS, APHIS, Forest Service and the National Park Service as well as Arabica Coffee growers in Cameroon. His areas of expertise include subject matter bibliographic and historic reviews, document aggregation and review, meeting facilitation and bioeconomic policy and regulatory analysis. He has an appointment as an adjunct instructor with the Prince George's Community College lecturing and consulting on the creation of an "Environmental/Sustainable/Green Jobs" Workforce Development Institute. And finally, he is a principle investigator for the North East Mid West Institute in Washington, DC having written a book on national certification policies.

Mr. Thompson has been lecturing on history since the 1980s in various venues including the University of Maryland's Senior University lifelong learning program on topics such as: History of the Papacy; A Political History of the Supreme Court; History of the "First Ladies" of the United States; History of the Plantagenet Family of England; Indo-European Historical Linguistics; Music Theory & History of Music: Renaissance, Classical and Rap; Tactics in Command in American Civil War Battles; A History of Kudzu: Marco Pole to the Present: History of Horticulral: Science and Art - Arititole to the Present; and Invasive Plants, The Rise of Invasives in Ornamental Horticulture

John Peter has been appointed to Class 7 of the National Invasive Species Council Advisory Committee (NISC ISAC) having previously served as Vice Chair and Secretary. He is the Maryland Nursery & Landscape Association liaison to the Maryland Invasive Species Council. He also is an active user of social media 'Tweeting" daily ***@InvasiveNotes*** with over 6400 followers as well as writing essays about social, scientific and philosophic issues on his blog, Invasive Notes (www.ipetrus.blogspot.com). John Peter works as a volunteer advocate to politicians and policy makers as President of the National Agricultural Research Alliance – Beltsville (NARA-B.org - 501c4). In this capacity he works with Congress and policy makers on behalf of the people and programs of USDA ARS and APHIS, in particular focusing on the Henry A. Wallace Agricultural Research Center (BARC) and the National Agricultural Library (NAL).

John Peter is a former Chair of the Prince George's County Chamber of Commerce as well as former founding director and President of the Mid Atlantic Exotic Pest Plant Council; and former President of the Maryland Nursery & Landscape Association. He currently serves as a technical advisor and national credit steward for the LBJ Wild Flower Center's Sustainable Landscape Initiative (SSI or SITES). At a community level he serves as the Vice Chair of the Prince George's County Historical Preservation Commission; as a trustee of the Prince George's County Memorial Library System; Prince George's County Hospital Foundation; and director of the Prince George County Community Foundation .

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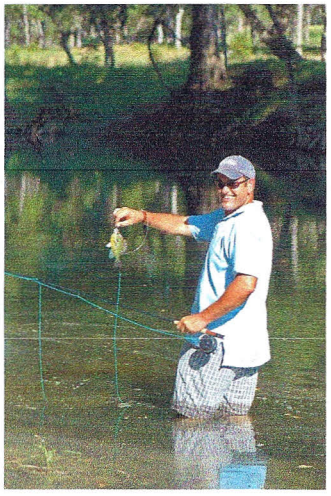
Bill Toomey: Bill is currently the Director of Forest Health Protection working as part of the Nature Conservancy's North American Forest Priority and the Conservancy's Urban Conservation Strategies Initiative. Most recently, Bill served as the Executive Director of the Highstead Foundation, a conservation non-profit based in Connecticut, which advanced forest conservation work throughout New England. Prior to that he worked for The Nature Conservancy for 10 years in the Connecticut and Massachusetts Chapters where he held positions as stewardship ecologist, landscape project director, and major gift fundraiser. He has also worked for the City of San Jose, California where he managed the residential recycling and composting program. Bill holds a bachelor's degree in Biology from Fairfield University and a master's degree in Soil Science and Ecology from North Carolina State University. Bill is also an ISA certified Arborist and is a member of the CT Urban Forest Council.

Dr. Robert A. Van Steenwyk is currently a research entomologist and an emeritus faculty with the Department of Environmental Science, Policy and Management at the University of California, Berkeley. Dr. Van Steenwyk's research and extension responsibilities included integrated pest management of deciduous fruit, nut and vine crops for California. His current research activity concentrates on integrated pest management with particular focus on invasive species and reduced risk insecticides. Dr. Van Steenwyk received his Ph.D. in Economic Entomology with minors in Statistics and Biological Control from the University of California, Riverside in 1975. After graduation, Dr. Van Steenwyk was hired by the University of California at Riverside as a research entomologist focusing on integrated pest management of pink bollworm in cotton. Dr. Van Steenwyk was then promoted to Assistant Professor of Entomology at the University of California, Riverside in 1977 where his research concentrated on monitoring, damage thresholds and pheromone mating disruption of insects attacking vegetable crops. Dr. Van Steenwyk was then promoted in 1982 to Cooperative Extension Entomologist at Berkeley. Dr. Van Steenwyk has published over 300 articles and been awarded over $7,000,000 for his research and extension programs during his career. He has served on the Exotic Pest Detection Panel for the California Department of Agriculture, research advisory boards for a number of California commodities and numerous committees for the University of California and the Entomological Society of America. Dr. Van Steenwyk was a consultant for USAID, where Dr. Van Steenwyk developed entomological work plans for cotton, pulses and potatoes for Bangladesh. Dr. Van Steenwyk has taught classes in Agricultural Statistics, Integrated Pest Management and Economic Entomology.



Dr. Damon Waitt

Dr. Waitt is the Senior Botanist and Director of the Native Plant Information Network at the Lady Bird Wildflower Center in Austin, Texas. A self-supporting Organized Research Unit of the University of Texas at Austin since 2006, the Lady Bird Johnson Wildflower Center was founded in 1982 and is nationally recognized as an innovative leader in plant conservation and environmental sustainability, as well as the premier national source of information on native plants and landscapes. Waitt serves as the Wildflower Center's botanical authority and is the author of the Center's Native Plant Information Network (www.wildflower.org/explore). Publications include the electronic version of *Woody Plants of Austin and the Texas Hill Country* and the revised edition of *Texas Wildflowers*.

Waitt holds a Ph.D. in Botany from the University of Texas in Austin where he studied the evolutionary ecology of *Phlox drummondii* , an M.S in Botany from Louisiana State University Baton Rouge for work on sex ratio evolution in sedges and a B.S. from Tulane University. Prior to joining the Wildflower Center in 2001, Dr. Waitt served on the faculty at Saint Edward's University and Southwestern University and as Director of Environmental Programs for the Associated Colleges of the South. In addition, he serves on Austin's Urban Forestry Board, Texas Oak Wilt Commission, and chairs the Parks and Wildlife Advisory Committee. He is also a Past-president of the Texas Academy of Sciences

The Wildflower Center takes a multi-pronged approach to addressing the harm caused by invasive species, combining public outreach, partnerships, citizen science, and research. As program chair of the 2005 and 2007 Texas Invasive Plant Conferences, Waitt was instrumental in establishing the Texas Invasive Plant and Pest Council and currently serves as the board president of that organization.

Bob Wiltshire is the founder and Executive Director of the Invasive Species Action Network in Livingston, MT. Dedicated to reducing the human caused spread of invasive species, CANS focuses on creating and delivering programs that inspire people to voluntarily take action to reduce the possibility that they will spread invasives.

Bob has a diversity of experience that gives him a clear understanding of the practical implications of implementing invasive species prevention programs. In the position of Chief of Operations for the Federation of Fly Fishers he was recognized as a leading spokesperson for the fly fishing industry. This experience is buttressed by his 11 years owning and operating a whitewater rafting and fly fishing outfitting business. Additionally, Bob spent 16 years conducting wild trout field studies for Montana Fish, Wildlife & Parks. These combined work experiences give him a unique understanding of how agencies, commercial businesses and organizations approach invasive species issues.

Outreach and education is Bob's specialty. Having graduated with teaching credentials from Wartburg College in Waverly Iowa, he has successfully bridged the gap between formal and informal education. He has been recognized for his work in improving communication skills in fisheries biologists and has initiated the development of many successful education programs. As the founder and former Chairman of the Alliance for Fly Fishing Education Bob worked to develop national mentor based programs that encourage the recruitment of youth as life long anglers.

Bob's understanding of the needs and concerns of anglers and other water recreationists combines with his knowledges of invasive species, outreach and fishery science allow him to effectively advocate for the angling community on the important issues contained in the invasive species effort.

Bob is an avid angler, hiker and skier. He lives in Livingston Montana with Daryl, his wife of 27 years and together they have two grown children of whom they are very proud.

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- **Cow/Calf producer, Bishop, Ca.**
- **Air Conditioning Contractor, Bellflower, Ca.**
- **California Department of Food and Agriculture, 2011, 2012, and 2013 Technical Review Committee Member, Specialty Crop Block Grant Program.**
- **Past Chair and Member 2004-2009, National Invasive Species Advisory Committee.**
- **Stakeholder-ARS National Program Action Plan: Range, Pastures, and Forages 2002, 2006, and 2010.**
- **Stakeholder-ARS National Program Action Plan: Crop Protection and Quarantine 2004 and 2008.**
- **Completed 2 year California Agricultural Leadership Program, Class 33.**
- **Past Chair and member, 1998-2010, of the Range Management Advisory Committee to the California State Board of Forestry and Fire Protection - California agencies and departments responsible to provide advice and input: Resources Agency, Department of Food and Agriculture, and Environmental Protection Agency.**
- **Past Vice-Chair the California Grazing Lands Conservation Initiative (GLCI) steering committee.**
- **Stake-holder, California Invasive Weed Advisory Committee (CALIWAC), California Inter-Agency Noxious Weed Coordinating Committee (CINWCC), and the Saltcedar Bio-control Consortium (ARS)**
- **Member of the expired SB 1740 Oversight Committee, responsible for distribution of Noxious and Invasive Species funding to Weed Management Areas and Research in California**
- **Past Co-Chair of the Public Lands Committee, past Chair and vice-chair of the Range Improvement Committee for the California Cattlemen's Association**