

AGENDA
21ST USDA INTERAGENCY RESEARCH FORUM ON INVASIVE SPECIES
JANUARY 12-15, 2010

Tuesday Afternoon, January 12

1:00 – 6:00 pm -- **REGISTRATION**

3:00 – 6:00 pm **POSTER SESSION** (Refreshments available)

Wednesday Morning, January 13

Moderator –

8:15 am – 12:00 pm

8:15 Welcome – Michael McManus, USDA Forest Service, Emeritus, Hamden, CT

OPENING KEYNOTE PRESENTATIONS

8:30 Risk analysis for invasive species. David Lodge, University of Notre Dame, Notre Dame, IN

9:15 The mountain pine beetle: causes and consequences of an unprecedented outbreak. Allan Carroll, University of British Columbia, Vancouver, BC

10:00-10:30 am BREAK

10:30 am – 12:00 pm RESEARCH REPORTS

10:30 Trade, economics, and invasives: The Nature Conservancy's perspective. Frank Lowenstein, The Nature Conservancy, Sheffield, MA

10:40 Forest pest invasions: trends and impacts. Deborah McCullough, Michigan State University, East Lansing, MI

11:00 Demonstrating the benefits of phytosanitary regulations: the case of ISPM 15 for the United States. Eckehard Brockerhoff, Scion Research, Canterbury, Christchurch, NZ

11:20 Patterns and prediction of plant pests in international trade: analysis and applications of APHIS's pest interception data. Allan Auclair, USDA APHIS, Riverdale, MD

11:40 Forest pests of high phytosanitary concern in the EPPO region. Andrei Orlinski, European and Mediterranean Plant Protection Organization, Paris, France

12:00 – 1:00 pm LUNCH

Wednesday Afternoon, January 13

1:00 – 3:00 pm – THE SPREAD OF INVASIVE SPECIES

Moderator – Patrick Tobin
USDA Forest Service, Morgantown, WV

1:00 Characterizing pathways of invasions through global trade with PIN and AQIM data. Timothy Work, Université de Québec à Montréal, Montréal, Québec

1:30 Large scale dissemination and landscape suitability in the recent spread of white pine blister rust in North America. Katrina Frank, University of Miami, Miami, FL

2:00 Modeling human-moderated dispersal of invasive species with gravity models. Jonathan Bossenbroek, University of Toledo, Toledo, OH

2:30 Estimating invasion spread through wobbling of waiting times. Tomas de Camino-Beck. The Pennsylvania State University, University Park, PA

3:00 – 3:30 BREAK

3:30 pm – 5:00 pm RESEARCH REPORTS

Moderator –

- 3:30 Systematics crisis in the Federal Government. Hilda Diaz-Soltero, USDA, Office of the Secretary, Washington, DC
- 3:50 Microbial acrobats: tracking the whereabouts of forest *Phytophthoras*. Susan Frankel, USDA Forest Service, Albany, CA.
- 4:10 Expanding our knowledge and reach of Asian gypsy moth exclusion programs. Victor Mastro, USDA APHIS, Buzzards Bay, MA
- 4:40 Hitchhikers in international trade routes: estimating the probabilities of introduction and establishment of alien insects using shipping schedules and routes, and a phenology model. David Gray, Natural Resources Canada, Fredericton, NB

5:00 – 6:00 pm POSTER SESSION

6:00 – 8:00 pm MIXER

Thursday Morning, January 14

8:00 – 10:00 am – JAPANESE STILTGRASS AND TREE-OF-HEAVEN: SPREAD, IMPACTS, AND BIOCONTROL

Moderator – Cynthia Huebner
USDA Forest Service, Morgantown, WV

- 8:00 Establishment and spread of Japanese stiltgrass across a local and regional environmental gradient. Cynthia Huebner, USDA Forest Service, Morgantown, WV
- 8:30 Community and ecosystem consequences of *Microstegium vimineum* invasions in eastern forests. S. Luke Flory, Indiana University, Bloomington, IN

9:00 The effect of management practices on *Ailanthus* populations in Ohio forests. Joanne Rebbeck, USDA Forest Service, Delaware, OH

9:30 Verticillium wilt of tree-of-heaven. Donald Davis, The Pennsylvania State University, University Park, PA

10:00 - 10:30 am BREAK

10:30 am – 12:00 pm RESEARCH REPORTS

Moderator –

- 10:30 *Invited Presentation.* Recent advances in pheromone chemistry of cerambycid beetles and new questions. Larry Hanks, University of Illinois at Champaign-Urbana, Urbana, IL
- 11:00 Asian longhorned beetle in Canada: What have we learned? Jean Turgeon, Natural Resources Canada, Sault Ste. Marie, ON
- 11:20 Asian longhorned beetle: over the river and through the woods. Al Sawyer, USDA APHIS, Buzzards Bay, MA
- 11:40 Eradication of an exotic ambrosia beetle, *Xylosandrus crassiusulus* (Motschulsky), in Oregon. James LaBonte, Oregon Department of Agriculture, Salem, OR

12:00 – 1:00 pm LUNCH

Thursday Afternoon, January 14

1:00 – 3:00 pm – THE USE OF MOLECULAR TECHNOLOGIES IN INVASIVE SPECIES PROGRAMS

Moderator – Melody Keena
USDA Forest Service, Hamden, CT

- 1:00 Predicting the female flight capability of gypsy moths using DNA markers. Melody A. Keena, USDA Forest Service, Hamden, CT

- 1:20 Invasion genetics of emerald ash borer (*Agrilus planipennis* Fairmaire). Alicia Bray, East Tennessee State University, Johnson City, TN
- 1:40 Assessing the origins of infestations and variation in Asian longhorned beetles using DNA methods. Evan Braswell, USDA APHIS, Edinburg, TX
- 2:00 Population genetics of *Laricobius nigrinus* and *L. rubidus*, predators of adelgids in North America. Nathan Havill, USDA Forest Service, Hamden, CT
- 2:20 TBA
- 2:40 Putative source of the invasive *Sirex noctilio* fungal symbiont, *Amylostereum areolatum*, in the eastern United States and its association with native siricid woodwasps. Ann Hajek, Cornell University, Ithaca, NY

3:00 – 3:30 pm BREAK

3:30 – 5:00 pm RESEARCH REPORTS

Moderator –

- 3:30 Summary of current research efforts on trapping and survey for emerald ash borer. Joseph Francese, USDA APHIS, Buzzards Bay, MA
- 3:50 Understanding mechanisms and genetic resistance to emerald ash borer and development of resistant ash. Enrico Bonello, Ohio State University, Columbus, OH
- 4:10 Evaluation of and alternative management strategies for emerald ash borer. Therese Poland, USDA Forest Service, East Lansing, MI
- 4:30 TBA
- 4:50 POSTER SESSION**

Friday Morning, January 15

8:00 – 11:10 am SIREX NOCTILIO

Moderator –

- 8:00 Update on the *Sirex noctilio* program in the U.S. Robyn Rose, USDA APHIS, Riverdale, MD
- 8:20 Is *Ips grandicollis* disrupting the biological control program for *Sirex noctilio* in Australia? Angus Carnegie, NSW Division of Primary Industries, New South Wales, Australia
- 8:40 *Sirex* research and management in South America.. Edson T. Iede, Embrapa Florestas, Colombo, Pr. Brasil
- 9:00 *Sirex* research and management in South Africa. Brett Hurley, University of Pretoria, Pretoria, South Africa
- 9:30 Responses of European woodwasp to southern pine species, and assessing distribution of native woodwasps and their parasitoids in southeastern U.S.A. Kamal Gandhi, University of Georgia, Athens, GA
- 9:50 Adapting nematode-based biological control systems to North American populations of *Sirex noctilio*. David Williams, USDA APHIS, Buzzards Bay, MA
- 10:10 Dispersal of *Sirex noctilio* in South America. Juan Corley, Laboratorio de Ecologia de Insectos, Bariloche, Argentina
- 10:30 Factors influencing location and selection of host plants by *Sirex noctilio*. Kelly Zlystra, USDA APHIS, Syracuse, NY
- 10:50 Development of systems for regulating movement of *Sirex noctilio* in wood and wood products. Scott Myers, USDA APHIS, Buzzards Bay, MA
- 11:10 Progress in understanding the ecology and detection of *Sirex noctilio*. Matthew Ayres, Dartmouth College, Hanover, NH
- 11:30 Closing Remarks