**Preparing Europe for invasion by the beetles emerald ash borer and bronze birch borer, two major tree-killing pests**

1-4 October 2018

Department of Forest Protection, Federal Research & Training Centre for Forests, Natural Hazards & Landscape – BFW

Vienna, Austria

**Provisional Programme**

*1 October*

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| 9:00 | Registration |  |
| 10:00 | Peter Mayer and Gernot Hoch  BFW, Austria | Welcome to BFW Vienna and introductory remarks |
| 10:15 | Gary Fitt  OECD Theme Representative, CSIRO, Brisbane, Australia | Cooperative Research Programme (CRP) |
| 10:35 | Hugh Evans  Forest Research, UK | Conference purpose and link to the EU PREPSYS project |
|  | **The Threats; history and potential** |  |
| 10:50 | Scott Pfister  USDA APHIS, USA | Evolution of the regulatory response to emerald ash borer infestation in the USA; a history of adaptation across federal and state jurisdictions |
| 11:20 | Break |  |
| 11:50 | Yuri Baranchikov  Sukachev Institute of Forestry, Krasnoyarsk, Russia | A quarter-century of emerald ash borer in Europe |
| 12:20 | Daniel Herms  The Davey Tree Expert Company, Kent, USA | Bronze birch borer and emerald ash borer interactions with novel and coevolved hosts |
| 12:50 | Discussion from morning session |  |
| 13:20 | Lunch |  |
|  | **European initial perspectives** |  |
| 14:20 | Hugh Evans  Forest Research UK | The European starting point; current perceptions and measures to prepare for emerald ash borer and bronze birch borer |
| 14:50 | Antoon Loomans  NVWA, The Netherlands | How can we best prepare for and manage risks and impacts of EAB and BBB? |
| 15:20 | Break |  |
| 15:50 | Françoise Petter  EPPO France | The EPPO perspective on emerald ash borer and bronze birch borer |
| 16:20 | Discussion session | Initial impressions on the key concerns for Europe. What questions do we need to concentrate on? |
| 17:30 | Mixer and poster session |  |

*2 October*

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|  | **Monitoring and detection** |  |
| 9:00 | Joe Francese  USDA APHIS, Otis Laboratory  USA | Improving detection tools for emerald ash borer |
| 9:30 | Peter Silk  Canadian Forest Service  Sault Ste Marie, Canada | Emerald ash borer detection and monitoring in Canada |
| 10:00 | Peter Silk  Canadian Forest Service  Fredericton, Canada | Host volatiles attractive to the bronze birch borer *Agrilus anxius* Gory (Coleoptera: Buprestidae) |
| 10:30 | Claire Rutledge  Connecticut Agricultural Experiment Station, USA | Detection systems for emerald ash borer and bronze birch borer; recent developments |
| 11:00 | Break |  |
| 11:20 | Zoltan Imrei  Hungarian Forest Research Institute, Hungary | Using data on trapping European buprestids as a proxy for monitoring invasive buprestids |
| 11:50 | Alain Roques  INRA, France | Testing a compromise trapping design to capture non-native species of long-horned beetles and *Agrilus spp* |
| 12:20 | Ute Hoyer-Tomiczek  BFW, Vienna, Austria | Initial progress in use of detection dogs for EAB monitoring |
| 12:50 | Provisional; speaker to be confirmed. | Sentinel trees as a component of an early warning system for detecting emerald ash borer and bronze birch borer |
| 13:20 | Discussion Session | Keeping the pests out and maximising the likelihood of early detection of invasion. What is the best approach? |
| 13:40 | Lunch |  |
|  | **Dispersal and range expansion** |  |
| 14:40 | Christian MacQuarrie  Canadian Forest Service  Sault Ste Marie, Canada | Emerald ash borer population dynamics and range expansion in Canada |
| 15:10 | Marina J. Orlova-Bienkowskaja  A.N. Severtsov Institute of Ecology and Evolution, Moscow, Russia | Good news. Ashes in Moscow have survived the outbreak of the emerald ash borer and are recovering |
| 15:40 | Bjørn Økland  Norwegian Institute of Bioeconomy Research (NIBIO), Norway | Pathways for transfer of emerald ash borer and bronze birch borer to Europe |
| 16:10 | Break |  |
| 16:40 | Denys Yemshanov  Canadian Forest Service  Sault Ste Marie, Canada | Optimal surveillance strategies and quantification of pathways of human-assisted introductions for emerald ash borer in a European context |
| 17:10 | Discussion Session | Managing resources to optimise prevention and to maximise detection and early deployment of management options. What is the best first response strategy? |
| 18:00 | End |  |
| 19:00 | Conference Dinner |  |

*3 October*

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|  | **Managing infestations of EAB and BBB** | |
| 9:00 | Deborah McCullough  Michigan State University, USA | Systemic insecticides and EAB:  Products, costs and benefits |
| 9:30 | Juli Gould  USDA APHIS, Otis Laboratory  USA | Introduced parasitoids for biological control of emerald ash borer in North America |
| 10:00 | Deborah McCullough  Michigan State University, USA | Beyond eradication; managing emerald ash borer to Slow Ash Mortality |
| 10:30 | Break |  |
| 11:00 | Kathleen Alexander  Boulder Parks & Recreation, USA | Preparing for, reacting to and future plans to manage infestations of EAB in Boulder, Colorado |
| 11:30 | Giuseppe Stancanelli  EFSA, Italy | EFSA contribution to European Union preparedness for the invasion of the emerald ash borer and bronze birch borer: from media scanning to survey guidelines |
| 12:00 | Discussion Session | Managing invasive populations at the local and long distance scales. What is the best combination of containment and population reduction? |
| 13:00 | Lunch |  |
|  | **Economic and social dimensions of managing pest invasions** |  |
| 14:00 | Denys Yemshanov  Canadian Forest Service, Canada | Balancing the costs of surveillance against the likelihood of successful detection: Comparing risk-based and acceptance sampling approaches |
| 14:30 | Glyn Jones  Fera Science Ltd, UK | Economic and environmental consequences of getting the management response wrong |
| 15:00 | Mariella Marzano  Forest Research, UK | The social dimensions of managing emerald ash borer and bronze birch borer; values, impacts and gaining a social licence to operate |
| 15:30 | Break |  |
| 16:00 | Arne Arnberger  BOKU, Vienna | Emerald ash borer impacts on visual preferences  - results from urban forest recreation settings in Minnesota and Vienna |
| 16:30 | Provisional; speaker to be confirmed | Lessons learned from managing citrus longhorn beetle in Italy; developing best methods and engaging with stakeholders |
| 17:00 | Discussion Session | What have we learned so far about managing resources to minimise risk and maximise the likelihood of reducing the impacts of invasive buprestid beetles? |
| 18:00 | End |  |

*4 October*

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|  | **The bigger picture; taking stock of multiple factors and next steps** |  |
| 9:00 | Hans Peter Ravn,  University of Copenhagen, Denmark | Ash dieback and emerald ash borer ranges overlap; despair or hope? |
| 9:30 | Rimvydas Vasaitis  SLU, Sweden | Emerald ash borer and ash dieback fungus; the final straw for ash in Europe? |
| 10:00 | TBC | Dramatic regional changes in ash demography resulting from emerald ash borer invasion of N. America |
| 10:30 | Gritta Schrader  JKI, Germany & EFSA, Italy | Gathering information to develop buprestid survey guidelines for Europe |
| 11:00 | Discussion Session including video conference link to EU DG Santé | Managing the complexities of multiple components of risk at a range of geographical and human scales. Where next for Europe? Pulling together what we have learned and planning how to disseminate the information for policy and other development. |
| 12:00 | Gary Fitt, OECD Theme Representative | Cooperative Research Programme (CRP): concluding remarks |
| 12:30 | End of Conference |  |