

## NEOBIOTA 2016 - CONFERENCE PROGRAMME

Venue: Cultural centre Larei, Vianden, Luxembourg

All oral communications @ Main conference room

Poster spaces: Sports Hall & Besseling Room & Gallery

Coffee breaks and Lunches @ Sports Hall

### Wednesday, 14 September 2016

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08:00 - 09:00 Registration @ Foyer

09:00 - 09:45 Conference opening - Main Conference Room

Keynote 1     *Biological invasions and climate change*. Chair: Franz Essl

09:45 - 10:30 We-K-01 Cascade Sorte  
Will climate change increase the success and impacts of invasive species?

10:30 - 11:15 Coffee break

Session 1     *Biological invasions and climate change*. Chair: Franz Essl

11:15 - 11:30 We-S1-01 - Caroline Müller  
Impacts of drought and plant origin on growth and tolerance of the invasive perennial *Tanacetum vulgare*

11:30 - 11:45 We-S1-02 - Aníbal Pauchard, Jonas Lembrechts, Jonathan Lenoir, Martín Nuñez, Charly Geron, Arne Ven, Ivan Nijs, Ann Milbau  
Using elevational gradients to understand plant invasions in cold environments: a field experiment in Sweden and Chile

11:45 - 12:00 We-S1-03 - Jesse Kalwij, Alexandra Erfmeier  
Population dynamics of alien plants in a montane ecosystem

12:00 - 12:15 We-S1-04 - Huseyin Onen, Shahid Farooq, Hikmet Gunal, Cumali Ozaslan  
Successful Adaptations to Adverse Environmental Conditions: More Areas under the Risk of Ragweed Invasion?

12:15 - 12:30 We-S1-05 - Miriam Zemanova, Olivier Broennimann, Antoine Guisan, Eva Knop, Gerald Heckel  
Slug invasion and climate change: phylogenetics, interception records and climatic niche help elucidate global spread of *Arion* species

12:30 - 12:45 We-S1-06 - Matt Hill, Cleo Bertelsmeier, Susana Clusella-Trullas, Jeff Garnas, Mark Robertson, John Terblanche  
Insect invasions under climate change: an agroecological perspective

12:45 - 14:00 Lunch & Poster session

13:10 - 13:50 EWRS information meeting @ Besseling Room (1<sup>st</sup> floor)

Session 2     *Invader traits and characteristics of invaded communities.* Chair: Emili García-Berthou

- 14:00 - 14:15 We-S2-01 - Bruce Osborne, Margherita Gioria, Mauricio Mantoani  
Early Growth and Development as a Key Defining Feature of Plant Invasions
- 14:15 - 14:30 We-S2-02 - Margherita Gioria, Petr Pyšek  
Germination strategies and plant invasions: current knowledge, gaps and challenges
- 14:30 - 14:45 We-S2-03 - Andreas Menzel, Stefan Hempel, Stefan Klotz, Mari Moora, Petr Pyšek, Matthias Rillig, Martin Zobel, Ingolf Kühn  
Mycorrhizal status interacting with morphological traits help explaining invasion success of alien plant species
- 14:45 - 15:00 We-S2-04 - Petr Pyšek, Jan Suda, Jan Cuda, Wen-Young Guo, Magdalena Lucanová, Hana Skálová, Laura Meyerson  
One ring rules them all: genome size as a driver of invasiveness in plants
- 15:00 - 15:15 We-S2-05 - Samuel Levin, Claudia Stein, Tiffany Knight  
Phylogenetic novelty alters the strength of biotic interactions for native and exotic plant species
- 15:15 - 15:30 We-S2-06 - Philip Hulme, Maud Bernard-Verdier  
Linking divergence and dissimilarity in native and alien species traits to address invasions of plant communities
- 15:30 - 15:45 We-S2-07 - Jane Molofsky, Jan Divisek, Milan Chytry, Petr Pyšek, Brian Beckage, David Richardson, Nicholas Gotelli  
Functional trait differences between native and invasive species across six habitats in the Czech Republic
- 15:45 - 16:00 We-S2-08 - Christien Steyn, Peter le Roux, Steven Chown, Mark van Kleunen, Wayne Dawson, Marten Winter, Franz Essl, Jan Pergl, Petr Pyšek, Holger Kreft, Patrick Weigelt, Michelle Greve  
A biogeographical and functional approach to improve our understanding of alien plant species on Sub-Antarctic Islands
- 16:00 - 16:45 Coffee break

Session 3     *Ecological impacts of biological invasions / Invader traits and characteristics of invaded communities.* Chair: Ingolf Kühn

- 16:45 - 17:00 We-S3-01 - Stefan Linzmaier, Jonathan Jeschke  
Mechanisms of exploitation and interference competition in a novel invader – the marbled crayfish
- 17:00 - 17:15 We-S3-02 - William Allen, Sally Street, Isabella Capellini  
How life history influences invasiveness across terrestrial vertebrate classes
- 17:15 - 17:30 We-S3-03 - Sabrina Kumschick  
Alien species classification and missing data: impact matters

- 17:30 - 17:45 We-S3-04 - Lorenzo Lazzaro, Giuseppe Mazza, Lorenzo Lastrucci, Claudia Giuliani, Alessandra Lagomarsino, Silvia Landi, Giada D'Errico, Elena Tricarico, Roberta Pastorelli, Alberto Inghilesi, Giulia Torrini, Pio Roversi, Arturo Fabiani, Bruno Foggi  
Multiple impacts caused by the invasive tree *Robinia pseudoacacia*: insights from soil chemical features to microarthropods, nematodes, microbial and plant communities
- 17:45 - 18:00 We-S3-05 - Colin Orians, Robert Schaeffer, Wilson Claire, Mauri Barrett, Carol Thornber, Evan Preisser  
Interacting invasive herbivores on hemlock: Effects on chemistry, growth and phenology
- 18:00 - 18:15 We-S3-06 - Varos Petrosyan, Victor Golubkov, Nikolai Zavyalov, Zoya Goryainova, Natalia Dergunova, Andrey Omelchenko, Sergey Bessonov, Sergey Albov, Natalia Marchenko, Lyudmila Khlyap, Yuri Dgebuadze  
The Eurasian (*Castor fiber* L.) and Canadian (*Castor canadensis* Kuhl) beavers in the European part of Russia: long-term population dynamics and interrelationships between the species
- 18:15 - 18:30 We-S3-07 - Marc Kenis  
*Harmonia axyridis* in Europe: have we been too alarmist?
- 19:00 - 20:00 Neobiota Council meeting
- 20:00 - 23:00 Social meeting in cultural café @ Ancien Cinéma café-club

### **Thursday, 15 September 2016**

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08:00 - 09:00 Registration @ Foyer

#### Keynote 2    Biogeography and macroecology of invasions. Chair: Philip Hulme

09:00 - 09:45 Th-K-02 - Mark van Kleunen - Keynote presentation  
Pretty, hot and sometimes successful: naturalization potential of ornamental garden plants in a changing climate

#### Session 4    Biogeography and macroecology of invasions. Chair: Philip Hulme

- 09:45 - 10:00 Th-S4-01 - Noëlie Maurel, Mark van Kleunen  
Scaling up from local climate matching in gardens to continental naturalization success: the case of ornamental woody plants in Europe
- 10:00 - 10:15 Th-S4-02 - Christine Sheppard  
Long-term dynamics of plant invasions: the role of residence time in determining invader performance
- 10:15 - 10:30 Th-S4-03 - Pavel Pipek, Petr Pyšek, Tim Blackburn  
Newspaper Stars in Feathers – reconstruction of passerine invasion history in New Zealand
- 10:30 - 10:45 Th-S4-04 - Belinda Gallardo, Pablo González, Wilfried Thuiller, Petr Pyšek, Montserrat Vilà, Chriss Yesson  
Macroecological patterns of Europe's 100 of the worst invasive species under current and future conditions

10:30 - 11:15 Coffee break

Session 5     *Invasive species and changes in landuse / Biogeography and macroecology of invasions.* Chair: Helen Roy

- 11:15 - 11:30 Th-S5-01 - Franz Essl, Wayne Dawson, Holger Kreft, Petr Pyšek, Jan Pergl, Mark van Kleunen, Patrick Weigelt, Bernd Lenzner, Thomas Mang, Dietmar Moser, Stefan Dullinger, Marten Winter  
The drivers of the level of plant invasions world-wide
- 11:30 - 11:45 Th-S5-02 - Hanno Seebens, Franz Essl, Bernd Blasius  
Patterns and predictions of the global spread of alien species: The intermediate distance hypothesis
- 11:45 - 12:00 Th-S5-03 - Jonas Lembrechts, Jonathan Lenoir, Nina Roth, Tarek Hattab, MIREN Consortium, Ann Milbau, Ivan Nijs  
Plant invasions in mountains: improving invasive species distribution models' performances by accounting for the road network
- 12:00 - 12:15 Th-S5-04 - Ana Montero-Castaño, Carolina Morales, Pablo González-Moreno, Montserrat Vilà, Marcelo Aizen  
Influential factors across an invasion process: the invasion of the Scotch broom in Nahuel Huapi National Park (Argentina)
- 12:15 - 12:30 Th-S5-05 - Chad Jones  
Patterns of plant invasions over 60 years in a developing forest

12:45 - 14:00 Lunch & Poster session

Keynote 3     *Non-native pests and pathogens.* Chair: Wolfgang Rabitsch

- 14:00 - 14:45 Th-K-03 - Alison Dunn  
Invasive Alien Species and Pathogens: interactions, impact and strategies for control

Session 6     *Non-native pests and pathogens.* Chair: Wolfgang Rabitsch

- 14:45 - 15:00 Th-S6-01 - Stefan Schindler, Helen Bayliss, Mildren Adam, Wolfgang Rabitsch, Franz Essl, Hans-Peter Hutter, Peter Wallner, Swen Follak, Andrew Pullin  
Alien species of human health concern: Evidence syntheses for impacts and management effectiveness
- 15:00 - 15:15 Th-S6-02 - Helen Roy  
Exploring the barriers to predicting alien pathogen invasions
- 15:15 - 15:30 Th-S6-03 - Heinke Jäger, Alonso Carrion, Jacqueline Rodriguez, Denisse Barrera, Sabine Tebbich, Arno Cimadam, Christian Sevilla, Charlotte Causton  
Restoration of a blackberry-invaded unique forest in Galápagos: impacts on the vegetation, birds and invertebrates
- 15:30 - 15:45 Th-S6-04 - Jennifer Fill, Brian van Wilgen, Johan Baard, Chad Cheney, Aurelia Forsyth, Greg Forsyth, Tineke Kraaij, David Le Maitre  
Challenges to invasive alien plant control and ecosystem restoration in the Cape fynbos, South Africa

15:45 - 16:00 Th-S6-05 - Kylie Ireland, Rieks van Klinken, David Cook, David Logan, Lisa Jamieson, Joy Tyson, Philip Hulme, Susan Worner, Eckehard Brockerhoff, John Fletcher, Brendan Rodoni, Gabrielle Vivian-Smith, Rosa Crnov, Mark Whattam, Mandy Christopher, Barbara Hall, Rod Turner, David Teulon. Mike Hodda, Dean Paini  
Plant pest impacts: A common set of metrics

16:00 - 16:45 Coffee break

16:45 - 18:30 Poster session @ Poster spaces: Sports Hall & Besseling Room & Gallery

20:00 - 22:30 Conference dinner @ Vianden Castle - Vic Abens Room

20:00 - 23:00 Social meeting in cultural café @ Ancien Cinéma café-club

### **Friday, 16 September 2016**

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08:00 - 09:00 Registration @ Foyer

Keynote 4     Genetics and evolution of invasive species. Chair: Petr Pyšek

9:00 - 09:45 Fr-K-04 - Carol E. Lee  
Evolution of Osmoregulation Arising from Fluctuating Seas, and Implications for Invasions

Session 7     Genetics and evolution of invasive species. Chair: Petr Pyšek

09:45 - 10:00 Fr-S7-01 - Frank Drygala, Alain Frantz  
Using genetic tools to inference expansion pattern of the raccoon dog

10:00 - 10:15 Fr-S7-02 - Natalia Osten-Sacken, Mike Heddergott, Martin Runge, Alain Frantz  
Using population genetics to understand the evolutionary potential of an introduced parasitic nematode, the raccoon roundworm (*Baylisascaris procyonis*)

10:15 - 10:30 Fr-S7-03 - Marion Javal, Alain Roques, Géraldine Roux  
Exploring the invasion history of an exotic pest based on genetic markers: the case of the Asian long-horned beetle (*Anoplophora glabripennis*).

10:30 - 11:15 Coffee break

Session 8     Genetics and evolution of invasive species / Engaging the public with the topic on invasive species. Chair: Ingo Kowarik

11:15 - 11:30 Fr-S8-01 - Tomasz Rewicz, Remi Wattier, Michal Grabowski, Thierry Rigaud, Tomasz Mamos, Karolina Bacela-Spychalska  
Out of the Black Sea: Phylogeography of the invasive killer shrimp *Dikerogammarus villosus* across Europe

11:30 - 11:45 Fr-S8-02 - Giovanni Vimercati, Sarah Davies, John Measey  
Never underestimate your opponent: adaptive phenotypic response in a recent invader

- 11:45 - 12:00 Fr-S8-03 - Cindy Verdu, Xavier Bouteiller, Emmi Aikio, Kasso Daïnou, Adline Delcamp, Oliver de Thier, Frédéric Gévaudant, Erwan Giuchoux, Yech'an Laizet, Philippe Lejeune, Coralie Mengal, Samuel Quevauvillers, Alexandre Raimbault, Raphaël Ségura, Ludivine Lassois, Arnaud Monty, Stéphanie Mariette, Annabel Porté  
A multidisciplinary insight in *Robinia pseudoacacia* genetic and phenotypic diversity
- 12:00 - 12:15 Fr-S8-04 - Xenia Junge, Marcel Hunziker, Nicole Bauer, Arne Arnberger, Roland Olschewski, Daniel Fischer  
Public and expert perception of invasive neobiota and development of neobiota communication tools
- 12:15 - 12:30 Fr-S8-05 - Charles Bargeron, Keith Douce, Joseph LaForest, David Moorhead  
Smartphones: changing the way invasive species are reported
- 12:30 - 12:45 Fr-S8-06 - Ana Novoa, Susan Canavan, Cathleen Cybèle, Sarah Davies, Paul Downey, Mirijam Gaertner, Sjirk Sjirk, Charles Griffiths, Philip Ivey, Haylee Kaplan, Sabrina Kumschick, David Le Maitre, John Measey, Ana Nunes, David Richardson, Tamara Robinson, Ross Shackleton, Louise Stafford, Julia Touza, John Wilson  
Engaging stakeholders on the management of invasive species: a step by step framework
- 12:45 - 14:00 Lunch & Poster session

Keynote 5     *Eradication, management & control of invasive species*. Chair: Laurent Schley

- 14:00 - 14:45 Fr-K-05 - Christoph Kueffer  
Managing biological invasions in the Anthropocene

Session 9     *Eradication, management & control of invasive species*. Chair: Laurent Schley

- 14:45 - 15:00 Fr-S9-01 - Heinz Müller-Schärer, Bruno Chauvel, Gerhard Karrer, Gabriella Kazinczi, Per Kudsk, Alfons Oude Lansink, Urs Schaffner, Carsten Skjoth, Matt Smith, Maurizio Vurro, Letty de Weger, Yan Sun1, Suzanne Lommen  
Cross-fertilizing weed science and invasion science: *Ambrosia artemisiifolia* as an ideal bridge species
- 15:00 - 15:15 Fr-S9-02 - Suzanne Lommen, Caspar Hallmann, Eelke Jongejans, Heinz Müller-Schärer  
Environmental drivers of European-wide variation in *Ambrosia* pollen and seed production, and implications for management of this invasive, allergenic species
- 15:15 - 15:30 Fr-S9-03 - Janine Saegesser, Daniel Fischer, Kathrin Fischer  
Long-term control of *Impatiens glandulifera* in a Swiss Forest: does zero-tolerance pay off?

- 15:30 - 15:45 Fr-S9-04 - Pablo González-Moreno, Alex Brook, Kate Constantine, René Eschen, Daisuke Kurose, Corin Pratt, Nikolai Thom, Sarah Thomas, Richard Shaw  
Making the psyllid work: the biological control of Japanese knotweed in England and Wales as a study system to understand and manage biological invasions
- 15:45 - 16:00 Fr-S9-05 - Pauline Palmas, Elsa Bonnaud, Raphaël Gouyet, Malik Oedin, Alexandre Millon, Corentin Chaillon, Frédéric Rigault, Jean-Jérôme Cassan, Eric Vidal  
How to deal with cat (*Felis silvestris catus*) management on a large and inhabited island?

16:00 - 16:45 Coffee break

Session 10    *Biosecurity and risk assessment, including early detection and rapid response / Eradication, management & control of invasive species.* Chair: Uwe Starfinger

- 16:45 - 17:00 Fr-S10-01 - Simone Lioy, Marco Porporato, Daniela Laurino, Aulo Manino, Sandro Bertolino  
Spread of *Vespa velutina* in Italy: natural diffusion, human-mediated dispersion and monitoring intensity to improve the management activities
- 17:00 - 17:15 Fr-S10-02 - Spyridon Flevaris  
EU Regulation on invasion alien species
- 17:15 - 17:30 Fr-S10-03 - Montserrat Vilà, Pablo González-Moreno, Marc Kenis, et al.  
Consistency of impact risk assessments across assessors
- 17:30 - 17:45 Fr-S10-04 - Sonia Vanderhoeven, Etienne Branquart, Bram D'hondt, Phil Hulme, Assaf Schwartz, Diederik Strubbe, Anne Turbé, Niall Moore, Jim Casaer, Hugo Verreycken, Tim Adriaens  
Beyond protocols: improving the reliability of expert-based risk analysis underpinning invasive species policies
- 17:45 - 18:00 Fr-S10-05 - Katelyn Faulkner, Mark Robertson, Mathieu Rouget, John Wilson  
Prioritising surveillance for alien organisms transported as stowaways on ships
- 18:00 - 18:15 Fr-S10-06 - Irene Adrian-Kalchhauser, Patricia Burkhardt-Holm  
Detection of invasive gobies by probing freshwater samples for DNA traces
- 18:15 - 18:30 Fr-S10-07 - Katriona Shea, Ciara Hovis, Joseph Keller, Brittany Teller, Ruth Hufbauer  
Parsing Propagule Pressure: The effects of multiple aspects of propagule pressure on the success of the invasive musk thistle *Carduus nutans*

18:30 - 19:00 Conference closing

20:00 - 23:00 Social meeting in cultural café @ Ancien Cinéma café-club

**Saturday, 17 September 2016**

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09:00 - 17:00 Field trip

20:00 - 23:00 Social meeting in cultural café @ Ancien Cinéma café-club