



Program

Tuesday 14th of February

08:30 – 8:45 Welcoming words

08:45 – 9:45 **Plenary 1** HALL 110 (LS B1) Chair: Anna-Liisa Laine
Bengt-Gunnar Jonsson (Mid Sweden University), *The perceived trade-off between climate mitigation and biodiversity in boreal forests*

09:45 – 10:30 Oikos Finland Prize Winner Talks HALL 110 (LS B1) Chair: John Loehr

10:30 – 11:00 Coffee break

11:00 – 12:00 Parallel sessions:

1. Anthropogenic effects #1 HALL 110 (LS B1) Chair: Laura Antão

11:00 Akshay Mohan (University of Jyväskylä), *The responses of an aquatic keystone detritivore to chemical pollution*

11:12 Céline Arzel (University of Turku), *Endocrine Disrupting chemicals in Finnish breeding female eiders and their eggs*

11:24 Carina Nebel (University of Turku), *Molecular screening reveals that wind turbine presence causes lower apparent survival in white-tailed eagles*

11:36 Simon Gaultier (University of Turku), *The presence of wind turbines repels bats in boreal forests*

11:48 Linnea Kivelä (University of Helsinki), *Glow-worm reproduction under light pollution: the effect of artificial light color on mate attraction success*

2. Movement, migration & mobility Raisio-sali (LS B2) Chair: Maria Hällfors

11:00 Nico Alioravainen (Natural Resources Institute Finland Luke), *The effects of land-use on dispersal dynamics of alien fish species*

11:12 Carlos A Aguilar-Trigueros (University of Jyväskylä/Western Sydney University), *Functional groups shape the size and function of spores across the fungal kingdom*

11:24 Ida Penttinen (University of Turku), *Natal dispersal behaviour of the white-tailed eagle revealed by molecular genotyping*

11:36 Edward Klun (University of Helsinki), *Who moves? Assortative mating and fitness benefits of exploratory behaviour at the range front.*

3. Methodological advances #1 Sali 106 (LS B5) Chair: Elina Numminen

- 11:00 Tiina Salo (Åbo Akademi University), *Who eats bladderwrack? – A citizen science study with an iconic Baltic Sea species*
- 11:12 Martin Forsius (Finnish Environment Institute Syke), *Integrated modelling of carbon processes and biodiversity targets in Finland*
- 11:24 Simone Bianchi (Natural Resources Institute Finland Luke), *Evaluation of empirical tree growth model for continuous cover forestry & climate change scenarios*
- 11:36 Anna-Maria Virkkala (Woodwell Climate Research Center), *Biotic and abiotic controls of key ecosystem processes in the tundra*

12:00 – 13:00 Round table discussion: **Scientist rebellion** HALL 110 (LS B1)

13:00 – 14:00 Lunch

14:00 – 15:00 **Plenary 2** HALL 110 (LS B1) Chair: Emma-Liina Marjakangas
Nerea Abrego (University of Jyväskylä), *From pattern to process in community ecology: challenges and prospects*

15:00 – 16:00 **Parallel sessions:**

4. Responses to environmental change HALL 110 (LS B1) Chair: Marjo Saastamoinen

- 15:00 Noémie Pichon (University of Oulu), *Seed limitation interacts with biotic and abiotic causes to constrain novel species' impact on community biomass and richness*
- 15:12 Maria Hällfors (Finnish Environment Institute Syke), *Recent range shifts of moths, butterflies, and birds are driven by the breadth of their climatic niche*
- 15:24 Laura Antão (University of Helsinki), *Climate change reshuffles northern species within their niches*
- 15:36 Anniina Mattila (Finnish Museum of Natural History Luomus), *The potential for evolutionary rescue in an arctic seashore plant maladapted to altered climatic conditions*
- 15:48 Emy Guilbault (University of Helsinki), *The duality of climate and habitat change drives moth communities' changes in Finland*

5. Biodiversity conservation Raisio-sali (LS B2) Chair: Stephen Venn

- 15:00 Francesca Malcangi (Lammi Biological Station, University of Helsinki), *The effect of forest integrity on wildlife abundance in Finland*
- 15:12 Hennariikka Mäenpää (University of Jyväskylä), *The effects of peatland drainage and restoration on tardigrade abundance and diversity*
- 15:24 Anna Haukka (Finnish Museum of Natural History Luomus), *The iratebirds citizen science -project: a dataset of birds' visual aesthetic attractiveness to humans*

- 15:36 Heidi Björklund (Finnish Museum of Natural History Luomus), *High stumps as breeding and nesting sites for birds in boreal forests*
- 15:48 Inês Órfão (MARE-ARDITI), *Freshwater fish conservation in insular ecosystems: the first study of the Critically Endangered European eel in Madeira*

6. Community ecology #1 Sali 106 (LS B5) Chair: Elina Kaarlejärvi

- 15:00 Benjamin Weigel (University of Helsinki), *Macrosystem community change in lake phytoplankton and its implications for diversity and function*
- 15:12 Emmi Eerola (Lammi Biological Station, University of Helsinki), *Year-round changes in fish community structure in boreal, humic lake*
- 15:24 Joanna Brüsecke (University of Oulu), *Drainage-induced browning causes loss and change of benthic biodiversity and reduction of biofilm nutritional quality in headwater streams*
- 15:36 Jacqueline Malazarte (University of Oulu), *Microbial rarity in stream networks: different assembly processes in the rare vs. common biosphere*
- 15:48 Shameer K.S. (University of Helsinki), *Assessment of agro-ecological community characteristics through food webs*

16:00 – 16:30 Coffee break

16:30 – 18:00 Parallel sessions:

7. Methodological advances #2 HALL 110 (LS B1) Chair: Jarno Vanhatalo

- 16:30 Niklas Moser (University of Jyväskylä), *Can we infer spatial and temporal scales of interspecific interactions from co-occurrence data?*
- 16:42 Elina Numminen (University of Helsinki), *Deep-rooted challenges in monitoring wildlife populations: the very ecology of a species complicates the collection and analysis of population data*
- 16:54 Jussi Mäkinen (University of Helsinki), *Integrated model framework to utilize different monitoring programs for mapping species distributions*
- 17:06 Tuomas Aivelo (University of Helsinki), *Not just data collection – secondary school students use diverse skills and provide reliable data in ecological citizen science project*
- 17:18 Helena Tukiainen (University of Oulu), *A field-based method for assessing local-scale geodiversity for biodiversity research and management*
- 17:30 Patrik Lauha (University of Helsinki), *Domain-specific neural networks improve automated bird sound recognition already with small amount of local data*
- 17:42 Panu Somervuo (University of Helsinki), *Probabilistic taxonomic classifier PROTAX: past, present, and future*

8. Sustainability #1 Raisio-sali (LS B2) Chair: Laura Bosco

- 16:30 Helena Wirta (University of Helsinki), *Honeybees' functions through DNA in honey*
- 16:42 Paula Thitz (University of Helsinki), *Polyculture farming shapes arthropod communities in agroecosystems: The effects of cover crop diversity and functional traits*
- 16:54 Mervi Orvokki Luoma (University of Iceland), *Managing problematic plants in Reykjavík, Iceland*
- 17:06 Johan Ekroos (University of Helsinki), *Effects of organic farming and semi-natural grasslands on within- and between-year pollination success of an insect-pollinated crop*
- 17:18 Josefin Winberg (Lund University), *Bioenergy crops on marginal land - trade-offs and synergies for biodiversity*
- 17:30 Ciara Dwyer (Lund University), *Exploring pollinator tools: The usability and the utility of pollinator tools in agriculture landscapes*
- 17:42 Romain Carrié (Lund University), *Time lags in the response of plants to the conversion to organic farming*

9. Life history and sensory ecology Sali 106 (LS B5) Chair: Carita Lindstedt-Kareksela

- 16:30 Charlotte Perrault (University of Turku), *Melanin-based plumage coloration is associated with risk-taking in tawny owls under stressful conditions*
- 16:42 Gian Luigi Bucciolini (University of Turku), *Colour morph specific variation in survival and reproduction across Europe in the tawny owl *Strix aluco**
- 16:54 Jenni Prokkola (Natural Resources Institute Finland Luke), *Genetics and energetics of life-history variation in Atlantic salmon*
- 17:06 E. Yagmur Erten (University of Jyväskylä), *Body size and sex differences affect cancer across species in lemurs*
- 17:18 Reetta Hämäläinen (University of Oulu), *Extended phenotypes as mediators of transfer of relational concepts between species*
- 17:30 C. Douglas Moore (The University of Stirling), *Pollen removal changes floral scent in buzz-pollinated flowers*
- 17:42 Christina Elgert (University of Helsinki), *Can you see me? Sexual signalling in an artificially lit world*

19:00 Conference Dinner in Paasitorni.

Wednesday 15th of February

08:30 – 9:30 Plenary 3 HALL 110 (LS B1) Chair: Jukka Forsman
Aino Juslén (Director of Nature Solutions Unit, Syke), *The need and processing of information for nature solutions*

9:30 – 10:30 Parallel sessions:

10. Sustainability #2 HALL 110 (LS B1) Chair: Ninni Mikkonen

09:30 María Triviño (University of Jyväskylä), *Future supply of boreal forest ecosystem services is driven by management rather than by climate change*

09:42 Ekaterina Shorohova (Natural Resources Institute Finland Luke), *Long-term effects of nature-based forest management on dead wood: lessons from Evo experiment*

09:54 Rémi Dufлот (University of Jyväskylä), *Efficiency of the Triad management approach to provide multifunctionality in Finnish forest landscapes*

10:06 Daniel Burgas (University of Jyväskylä), *Boreal forests and restorative health benefits to humans: management recommendations, synergies and trade-offs*

10:18 Merja Elo (University of Jyväskylä), *Is restoration effective? A large-scale and long-term study of vegetation in boreal peatlands*

11. Evolutionary biology Sali 108 (LS B3) Chair: Frédéric Guillaume

09:30 Jussi Lehtonen (University of Jyväskylä), *Bateman gradients from first principles*

09:42 Ian Hardy (University of Helsinki), *Quasi-social parasitoid sex ratios under multi-foundress local mate competition with reproductive dominance*

09:54 Gerrit Wehrenberg (University of Oulu), *Conservation management tool: A reduced SNP panel for non-invasive genetic assessment of a genetically impoverished species, the European bison*

10:06 Nora Bergman (University of Helsinki), *Conserved genetic diversity and weak founder effects after a rapid range expansion of a long-distance migrant (*Acrocephalus scirpaceus*)*

10:18 Katja Rönkä (University of Helsinki), *Signs of local adaptation to parasitism in a cuckoo-host coevolutionary mosaic*

12. Species interactions Sali 106 (LS B5) Chair: Carly Lynsdale

09:30 Teresa Abaurrea (University of Helsinki), *Common cuckoos choose Common redstart hosts based on availability and location, rather than parental quality*

09:42 Rose Thorogood (University of Helsinki), *Are behavioural defences lost during a range expansion away from enemies? A field test with reed warblers*

09:54 Coen Westerduin (University of Oulu), *Food-web interactions of five passerine birds and their numerous arthropod prey*

10:06 Tuomas Kankaanpää (University of Oulu), *Moth – grouse interactions in the changing North*

10:18 Purabi Deshpande (University of Helsinki), *Could changes in autumn phenology of fruiting and bird migration increase the dispersal of alien plants from urban areas?*

10:30 – 11:00 Coffee break

11:00 – 12:00 Parallel sessions:

10. Sustainability #2 HALL 110 (LS B1) Chair: Ninni Mikkonen

11:00 Tuomas Aakala (University of Eastern Finland), *Snag fall in Fennoscandian boreal forests*

11:12 Iris Aalto (University of Helsinki), *Microclimates in a boreal forest landscape in southern Finland*

11:24 Niko Kulha (Natural Resources Institute Finland Luke), *How do functional traits, species properties and climate influence tree mortality across Europe?*

11:36 Adriano Mazziotta (Natural Resources Institute Finland Luke), *Forest management influences species richness of wood-inhabiting fungi affecting landscape structure and configuration in the boreal production forest*

11:48 Aleksi Nirhamo (University of Eastern Finland), *Long-term effects of retention forestry on epiphytic lichen diversity on living and dead Pinus sylvestris*

11. Evolutionary biology Sali 108 (LS B3) Chair: Frédéric Guillaume

11:00 Katja Koskenpato (University of Helsinki), *Regional variation in climate change alters the distribution of colour polymorphism in tawny owls*

11:12 Miguel Baltazar-Soares (University of Turku), *Molecular insights on tawny's owl color phenotypes: is it brown the stronger colour?*

11:24 Cecilia Kardum Hjort (Lund University), *Genomic divergence and a lack of introgression between commercial and wild bumblebees, Bombus terrestris*

11:36 Toni Jernfors (University of Jyväskylä), *Expansion of rDNA and pericentromere satellite repeats in bank voles exposed to environmental radionuclides*

11:48 Antti Miettinen (University of Helsinki), *Monitoring of adaptive genetic loci informs conservation and management of Baltic salmon*

12. Species interactions Sali 106 (LS B5) Chair: Carly Lynsdale

11:00 Phill Watts (University of Jyväskylä), *Urban environments alter the gut bacterial and fungal microbiota in a wild rodent*

11:12 Hanna Susi (University of Helsinki), *Host species and environment mediating pathogen – microbiota dynamics*

- 11:24 Skylar Burg (University of Jyväskylä), *Specific root-associated fungal communities facilitate plant growth at high altitudes*
- 11:36 Anna-Liisa Laine (University of Helsinki), *How important is host diversity for disease?*
- 11:48 Benjamin Fuchs (University of Turku), *Soil-mediated effects of agrochemical use on plant hormone regulation and microbe-mediated plant resistance to insects*

12:00 – 13:30 Lunch

13:30 – 14:30 Oikos Finland General Assembly (Oikos board) HALL 110 (LS B1)

14:30 – 15:30 Parallel sessions:

13. Community ecology #2 HALL 110 (LS B1) Chair: Benjamin Weigel

- 14:30 Océane Bartholomée (Lund University), *Shining a light on species coexistence: visual traits drive bumblebee communities*
- 14:42 Mahtab Yazdanian (University of Oulu), *Boreal moth biomass is either stable or increasing in time depending on key life-history traits*
- 14:54 Elina Kaarlejärvi (University of Helsinki), *Trait-based selection and diversity changes along successional gradient in boreal forest understory*
- 15:06 Tuija Maliniemi (University of Oulu), *Long-term biotic homogenization of oligotrophic tundra vegetation across northern Fennoscandia*
- 15:18 Jenna Purhonen (University of Jyväskylä), *Species richness and composition of wood-inhabiting fungi in high stumps of logging areas and advanced thinning forests*

14. Anthropogenic effects #2 Raisio-sali (LS B2) Chair: Hanna Susi

- 14:30 Martijn Versluijs (Université du Québec en Abitibi-Témiscamingue), *The combined effects of forest management and climate change on the future range size of Finnish boreal birds*
- 14:42 Laura Bosco (Finnish Museum of Natural History Luomus), *Impact of agricultural land-use on farmland birds in Northern Europe*
- 14:54 Emma-Liina Marjakangas (University of Helsinki), *Bird species' tolerances to anthropogenic disturbance in Europe*
- 15:06 Tuomo Wallenius (University of Helsinki), *Fencing of the Finnish-Norwegian border in the 1950s and year-round reindeer grazing lead to a rapid loss of lichen cover in Finland*
- 15:18 Heta Lähdesmäki (University of Helsinki), *Bird feeding and the practices of bird and rat-proofing as a potential solution to human-wildlife conflict*

15. Sustainability #3

Sali 106 (LS B5)

Chair: Aapo Kahilainen

14:30 Jon Brommer (University of Turku), *Factors promoting sustainable use of natural resources in a co-management system: moose harvest by Finnish hunting groups*

14:42 Alex Piro (Lammi Biological Station, University of Helsinki), *Fish muscle mercury content and bioaccumulation have year-round changes - insights from the whole fish community of a boreal lake*

14:54 Katri Ruottinen (Natural Resources Institute Finland Luke), *The effects of drainage and forest structure on grouse brood size*

15:06 Martin Seltmann (University of Turku), *Are geese dining at their reserved table? Foraging habitat selection in barnacle geese staging in Eastern Finland*

15:18 Laura Tuominen (University of Turku), *Is it possible to have fun while following the rules? Social and ecological sustainability in Finnish moose hunting*

15:30 – 16:30 Plenary 4

HALL 110 (LS B1)

Chair: Rose Thorogood

Craig Primmer (University of Helsinki), *Beyond genome scans: The “what”, “why” and “how” behind a large-effect locus linked with Atlantic salmon age at maturity*

16:30 – 18:00 Poster session and refreshments

Metsätieteiden talo lobby - room A-rakennus, 173 a. Aulatila