

ECOLOGY ACROSS BORDERS

11-14 DECEMBER 2017

ICC, GHENT

THE JOINT ANNUAL MEETING OF:



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environmental and evolutionary plant biology



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ANNUAL MEETING 2017

11–14 DECEMBER
ICC GHENT, BELGIUM

CONTENTS

CONTENTS	3	POSTER SESSION 1: TUESDAY 12 DECEMBER	57
WELCOME	4	POSTER SESSION 2: WEDNESDAY 13 DECEMBER	66
BEHIND THE SCENES OF THE PROGRAMME	5	PEOPLE'S CHOICE AWARD	75
EXHIBITION AND SPONSORSHIP	6	INDEX OF PRESENTERS	78
MEETING OVERVIEW	8	ATTENDEE INFORMATION	89
ORAL SESSION OVERVIEW	10	SOCIAL EVENTS	92
PLENARY LECTURES	12	THE GFÖ PHOTO AWARD	96
THEMATIC TOPIC SESSIONS	16	BES PHOTOGRAPHIC COMPETITION	97
WORKSHOPS OVERVIEW	20	TREELINES: WHERE NEXT?	98
CAREERS DEVELOPMENT PROGRAMME	24	37 TH BES AGM	101
POLICY AT BES	25	NOMINATIONS FOR BES COUNCIL	102
PRESENTER INFORMATION	26	BES AWARD WINNERS	106
ORAL PRESENTATIONS:		GFÖ AWARD WINNERS	108
TUESDAY 12 DECEMBER	28	EEF AWARD	108
WEDNESDAY 13 DECEMBER	39	BES SPECIAL INTEREST GROUPS	109
THURSDAY 14 DECEMBER	49	GFÖ SPECIAL INTEREST GROUPS	110

WELCOME TO ECOLOGY ACROSS BORDERS

The border-crossing event of BES, GfÖ, NecoV and EEF



On behalf of the three organising European ecological societies, “the British Ecological Society” (BES), “die Gesellschaft für Ökologie” (GfÖ) and “de Nederlands-Vlaamse Vereniging voor Ecologie” (NecoV), together with their umbrella society of societies, the European Ecological Federation (EEF), we welcome you wholeheartedly at our joint meeting “Ecology Across Borders”. It will indeed cross borders in many ways.

Quantitatively, we cross borders in numbers of participating delegates (over 1500), over 600 oral presentations will be given in 72 parallel sessions, dealing with over 30 different topics, including 13 thematic sessions, far over 500 posters will be at your disposal, no less than 13 workshops and several meetings of science interest groups will be organised.

But quantity is one thing, quality is another, only the latter is what counts in the end. And quality is assured.

This congress will break a lance for inter-disciplinary and trans-disciplinary science. It will challenge mono-disciplinary thinking. We strongly believe that integrating scientific disciplines and tearing down frontiers between ivory-tower-science and the people by involving society into science, will strongly achieve a more significant contribution of science to global well-being. It's through trans-disciplinarity that we will ensure an ecological stronghold to all seventeen UN sustainable development goals. These all share ecology according to Haeckel's 1866 ecology definition, the science of the interactions among organisms and their abiotic conditions. Ecological science has a strong responsibility in achieving the 17 SDG's.

What else can you expect from your short but busy stay in Ghent: how about the breaking of frontiers in science humour? We really look forward to the 'confrontation' of British pragmatism with continental (sur)realism at the Science Slam.

The organising committee sincerely hopes that you will fully enjoy this meeting in all its aspects, we are sure that it will inspire you with new ideas of innovative science...

Finally we, as the organising committee, are very pleased that we could fully implement the principles of equality and diversity, in bringing together such a diverse make-up of delegates and presentations. These are perhaps also border-crossing facts that gives an even stronger perspective to this congress.

Have a great week and see you somewhere during this meeting and at future (joint) meetings.

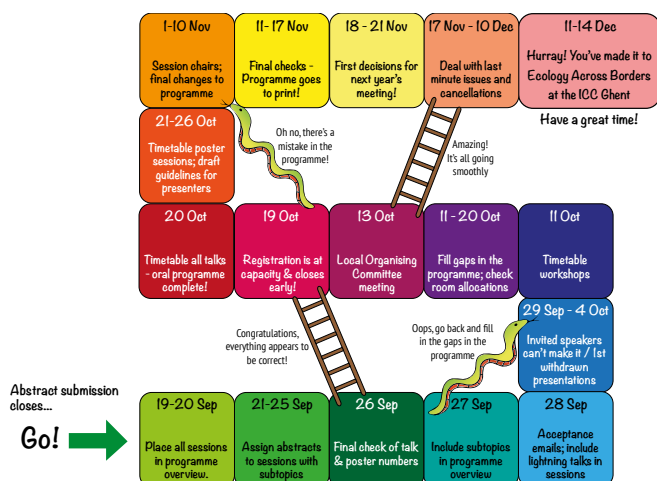
Maurice Hoffmann (Ghent University, INBO [Research Institute for Nature & Forest] and president NecoV), on behalf of the organising committee members Zoe Davies (BES), Ellen Decaestecker (NecoV), Stefan Hotes (GfÖ), Stefan Klotz (EEF), Zoe Davies (BES), Emma Sayer (BES), Jutta Stadler (GfÖ / EEF) and the technical support team Lies Geerts (Ghent ICC, Account Manager), Tessa Van Santen, (INBO, administrative support), Hazel Norman (BES Staff, Executive Director), Richard English (BES Staff, Communications Manager), Amy Everard (BES Staff, Events Manager), Siri McDonnell (BES Staff, Grants and Events Officer), Juliane Röder (GfÖ press and outreach).

Code of conduct:

Everyone involved in this event has worked exceptionally hard to promote a welcoming environment that is collaborative, supportive and engaging. We celebrate diversity in all its forms and expect that our delegates are respectful and considerate of each other, that they provide supportive critique, and embrace the multitude of opinions that are on offer. Our meetings are opportunities to share, develop and broaden our viewpoints in a safe, inclusive setting and we hope that you will make the most of everything on offer here. If you have any concerns or suggestions for how we can make our meetings more inclusive and productive, please chat to Amy Everard or Zoe Davies in the Registration Area.

BEHIND THE SCENES OF THE EAB SCIENTIFIC PROGRAMME

Have you ever wondered what goes into creating the scientific programme for a large international meeting? While you might think that we just use a computer programme or algorithm, it actually comes down to three people and a large number of Excel spreadsheets, emails, and lists.



Although the thematic sessions and workshops are selected through open competitions months in advance, the main work on the scientific programme starts with the close of abstract submission. It takes us a good 10 weeks, 3-4 meetings, and around 500 internal emails to compile the colourful programme overview (page 8), and create what we hope will be exciting, stimulating oral and poster sessions.

Immediately after the abstract submission deadline, we begin by working out the number of sessions for each category (e.g. Community Ecology, People & Nature) based on the number of submissions. We first place the thematic sessions in the programme overview (page 8), taking into account the spread of subject areas and the topics our plenary speakers will be covering. We then start filling in the rest of the programme with the category sessions, using a colour scheme to spot potential clashes. This usually takes a couple of days, and a lot of tea and chocolate. Once we are satisfied with the programme overview, we start sifting through the abstracts to create sessions with coherent subtopics. This represents the bulk of the work, because we try to achieve a balance of speaker gender and seniority that is representative of the initial submissions. We also aim for an even spread of talks across institutions and countries to create a varied international programme. If your abstract did not get accepted, this is not a reflection of

the quality of your science, but because we aspire to ensure diversity and inclusivity across the meeting. The next step is to include the subtopics in the programme overview, which often requires some additional shuffling to avoid overlaps and clashes. This year, we also had to consider how to arrange the lightning talks in the most suitable sessions, by creating a direct link between the last oral session of the afternoon and the subsequent poster sessions!

We might get a bit of breathing space before earlybird registration closes, but then the real madness begins because we have only a short space of time to finalise the programme. For each presenter who has not managed to register, we need to find a suitable swap to complete the oral sessions. For this task, we are really grateful to delegates who originally requested an oral presentation, accepted our offer of a poster instead, and are then willing to change back to a talk to help us out. Finally, once all the talks are timetabled, we can focus on arranging the poster sessions. We try to create diverse and vibrant sessions across a wide range of topics each day.

During these 10 weeks of intense work on the programme, we also correspond with delegates, draft and create the guidelines for presenters, and recruit and assign session chairs! Even after the main programme goes to print, we are still busy sorting out last-minute cancellations. Then mid-December arrives and it is time to travel to Ghent, so we cross our fingers, hold our breath and...

...hope you all enjoy the meeting!

Emma Sayer, Lancaster University
(the four-meeting old-timer and ultimate pro)
Zoe Davies, DICE, University of Kent
(chief partner-in-crime for the past three meetings)
Amy Everard, BES
(meetings guru, fixer and all-round superstar)

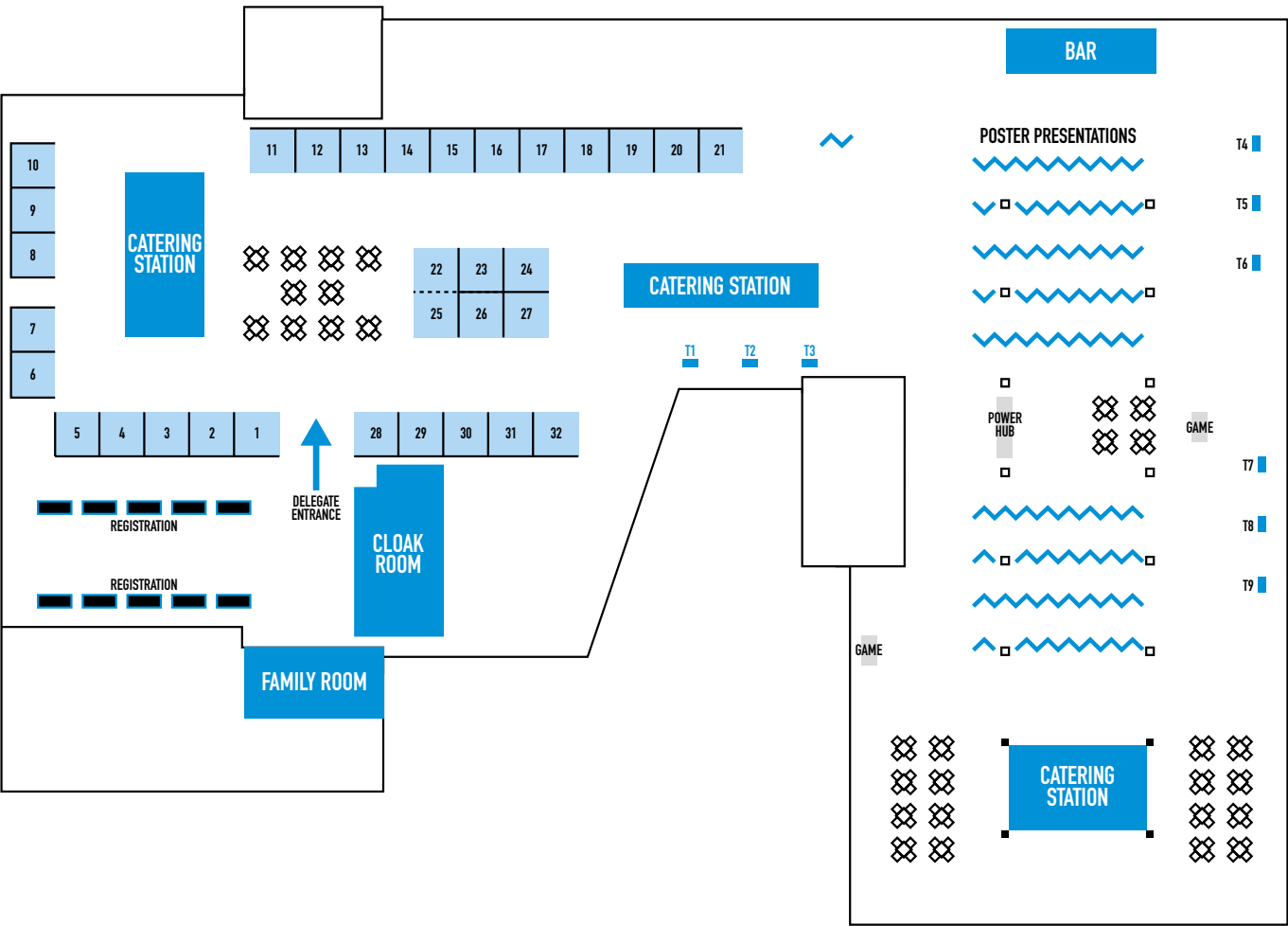


If you want to know more or learn how to create the scientific programme for a large international meeting, you can sign up for a workshop in 2018.

EXHIBITION AND SPONSORSHIP

Ecology Across Borders will feature 36 exhibitors.
Below is a plan to help you navigate your way around.

Special thanks to our premium stand sponsors Wiley,
LI-COR Biosciences, LifeWatch, Frontiers for Young
Minds and Taylor & Francis.



- 1 GfÖ – Gesellschaft für Ökologie
- 2 Ecomatik
- 3 New Phytologist Trust
- 4 CABI
- 5 Cambridge University Press
- 6 Delta-T Devices – UP GmbH
- 7 Delta-T Devices – UP GmbH
- 8 Pensoft Publishers
- 9 ADC BioScientific
- 10 GBIF – Global Biodiversity Information Facility
- 11 Wiley
- 12 Wiley
- 13 PR Statistics
- 14 Wildnote App
- 15 Oxford University Press
- 16 Elementex
- 17 Annals of Botany
- 18 ecoTech Umwelt-Meßsysteme
- 19 BEXIS Research Data Management
- 20 Pelagic Publishing
- 21 NSO Nordic Society Oikos
- 22 British Ecological Society
- 23 LifeWatch-ERIC
- 24 Taylor & Francis
- 25 British Ecological Society
- 26 Frontiers for Young Minds
- 27 LI-COR Biosciences
- 28 NecoV
- 29 European Ecological Federation
- 30 NHBS
- 31 Conservation Evidence
- 32 Valuing Nature Programme
- T1 Veldshop
- T2 The Fieldwork Company
- T3 Société Française d'Ecologie
- T4 CID-BioScience
- T5 Society of Experimental Biology
- T6 ALTER-Net
- T7 Society of Experimental Biology
- T8 British Ecological Society Merchandise
- T9 Craft your PhD



MEETING OVERVIEW

	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00
Monday 11 December								14:00 – 19:30 Registration Desk
								14:00 – 17:00 Speaker Upload Room
Tuesday 12 December	08.00 – 19.00 Registration Desk							
	08:00 – 17:00 Speaker Upload Room							
		09:00 – 10:30 Opening Ceremony & Welcome Plenary Lecture: Iain Couzins	10:30 – 11:15 Coffee Break	11:15 – 13:15 Parallel Sessions		13:15 – 15:15 Lunch Tea/coffee 13.30 – 15.00 Workshop		
Wednesday 13 December	08:00 – 19:00 Registration Desk							
	08:00 – 17:00 Speaker Upload Room							
		08:30 – 09:30 Plenary Lec- ture: Carlos Herrera	09:30 – 10:30 Awards Ceremony	10:30 – 11:00 Coffee Break	11:00 – 13:00 Parallel Sessions		13:00 – 15:00 Lunch Tea/coffee 13:15 – 14.45 Workshops	
Thursday 14 December		08:30 – 13.30 Registration Desk						
		08:30 – 13:00 Speaker Upload Room						
		08:45 – 09:15 12 Months In Ecology Lecture: Louise Vet	09:15 – 09:45 Coffee Break	09:45 – 11:45 Parallel Sessions		11:45 – 12:30 Lunch	12.30 – 14.30 Parallel Sessions	
Friday 15 December	*Post Conference							

16:00		17:00		18:00		19:00		20:00		21:00		22:00	
Administration Desk													
Poster Upload Room													
Ghent ICC				19:30 – 21:30 Welcome Mixer									
		15:15 – 17:15 Parallel Sessions		17:15 – 18:45 Poster Session with drinks		19:00 BES Special Interest Group Events GfÖ Specialist Group Events Other social events							
15:00 – 17:00 Parallel Sessions		17:15 – 18:00 AGMs for all Societies		18:00 – 19:30 Poster Session with drinks		19:30 *Conference Dinner, Ghent ICC			21:30 – late Conference Dance <i>All delegates can attend this part of the evening</i>				
14:45 – 15:45 Plenary lecture: Sue Hartley		Main meeting finishes											
Conference Tours													

* Extra charge to attend these events – please select when registering

ORAL SESSION OVERVIEW

TUESDAY 12		WEDNESDAY 13
11:15 – 13:15	15:15 – 17:15	11:00 – 13:00
TT1: E2-Moves: From individual movements to eco-evolutionary consequences/dynamics Location: Auditorium Page: 28	TT3: Global change and ecosystems: lessons from globally distributed observatories and experiments Location: Auditorium Page: 32	TT5: Using species traits to understand the structure and function of interaction networks Location: Auditorium Page: 39
TT2: Bridging the resilience of social-ecological systems with natural capital Location: Casinozaal 1 Page: 28	TT4: Frontiers in agro-ecology: multi-trophic trait-based approaches for climate adaptability Location: Casinozaal 1 Page: 32	TT6: The ecology-physiology-life-history nexus: integrating ecophysiology in evolving life history syndromes Location: Casinozaal 1 Page: 39
S1: Conservation Science (Landscapes, connectivity & dispersal) Location: Casinozaal 2 Page: 28	S12: Conservation Science (Science to inform policy) Location: Casinozaal 2 Page: 32	S23: Conservation Science (Reintroductions, restoration & rewilding) Location: Casinozaal 2 Page: 39
S2: Agricultural Science (Policy & management) Location: Conceptstore Page: 29	S13: Conservation Science (Populations & diversity) Location: Conceptstore Page: 33	S24: Species Interactions (Herbivory, predation or seed dispersal) Location: Conceptstore Page: 39
S3: Community Ecology (Community assembly & stability) Location: Jan Van Eyckzaal Page: 29	S14: Community Ecology (Habitat & environment) Location: Jan Van Eyckzaal Page: 33	S25: Community Ecology (Environmental change) Location: Jan Van Eyckzaal Page: 40
S4: Ecosystem & Functional Ecology (Modelling ecosystems) Location: Hubert van Eyck Page: 29	S15: Ecosystem & Functional Ecology (Disturbance & environmental change) Location: Hubert van Eyck Page: 34	S26: Ecosystem & Functional Ecology (Biogeochemical Cycles) Location: Hubert van Eyck Page: 40
S5: Population Ecology (Dynamics or stability) Location: Van der Goeszaal Page: 30	S16: Ecosystem & Functional Ecology (Diversity & function I) Location: Van der Goeszaal Page: 34	S27: Evolutionary Ecology (Patterns & principles) Location: Van der Goeszaal Page: 40
S6: Global Change Ecology (Habitats, distributions & range shifts) Location: Van Rysselberghezaal Page: 30	S17: Global Change Ecology (Land-use & management) Location: Van Rysselberghezaal Page: 35	S28: Global Change Ecology (Carbon & nutrients) Location: Van Rysselberghezaal Page: 41
S7: Behavioural Ecology (Cooperation, groups & personalities) Location: Bauwenszaal Page: 30	S18: Evolutionary Ecology (Adaptation & stress) Location: Bauwenszaal Page: 35	S29: Population Ecology (Dispersal or distributions) Location: Bauwenszaal Page: 41
S8: Soil Ecology & Plant-Soil Interactions (Roots & mycorrhizae) Location: Baekelandzaal 1 Page: 31	S19: Soil Ecology & Plant-Soil Interactions (Element cycling & decomposition) Location: Baekelandzaal 1 Page: 36	S30: Soil Ecology & Plant-Soil Interactions (Microbial communities) Location: Baekelandzaal 1 Page: 41
S9: People & Nature (Citizen science) Location: Baekelandzaal 2 Page: 31	S20: Ecological Genetics or Molecular Ecology (Populations, species & interactions) Location: Baekelandzaal 2 Page: 37	S31: People & Nature (Ecosystem services) Location: Baekelandzaal 2 Page: 42
S10: Species Interactions (Networks) Location: Baekelandzaal 3 Page: 31	S21: Species Interactions (Foodwebs & trophic interactions) Location: Baekelandzaal 3 Page: 37	S32: Theoretical or Computational Ecology (Patterns & scales) Location: Baekelandzaal 3 Page: 42
S11: Invasive Species (Management & monitoring) Location: Guislainzaal 1 Page: 31	S22: Microbial Ecology Location: Guislainzaal 1 Page: 38	S33: Invasive Species (Interactions, networks & communities) Location: Guislainzaal 1 Page: 42

WEDNESDAY 13	THURSDAY 14	
15:00 – 17:00	09:45 – 11:45	12:30 – 14:30
TT7: Linking functional diversity of terrestrial and marine primary producers – the potential of remote sensing Location: Auditorium Page: 42	TT9: Environmental and Ecological Metabolomics Location: Auditorium Page: 49	TT12: Eco-evolutionary dynamics in an urbanized world Location: Auditorium Page: 52
TT8: Rewilding as a contemporary conservation strategy Location: Casinozaal 1 Page: 43	TT10: Are we any good at simulating ecology? Success and future challenges in ecological simulation models Location: Casinozaal 1 Page: 49	TT13: Plant-pollinator interactions in the changing Arctic and Montane Location: Casinozaal 1 Page: 53
S34: Conservation Science (Indicators, priorities, planning & protection) Location: Casinozaal 2 Page: 43	TT11: Winter ecology: expanding the focus in a changing world Location: Casinozaal 2 Page: 49	S55: Theoretical or Computational Ecology (Advances in modelling) Location: Casinozaal 2 Page: 53
S35: Agricultural Ecology (Diversity, function & ecosystem services) Location: Conceptstore Page: 43	S45: Ecosystem & Functional Ecology (Species & community traits) Location: Conceptstore Page: 49	S56: Ecosystem & Functional Ecology (Diversity & function II) Location: Conceptstore Page: 53
S36: Community Ecology (Species & trait diversity) Location: Jan Van Eyckzaal Page: 44	S46: Global Change Ecology (Phenology, timing & temporal change) Location: Jan Van Eyckzaal Page: 50	S57: Community Ecology (Coexistence & competition) Location: Jan Van Eyckzaal Page: 53
S37: Ecosystem & Functional Ecology (Ecosystem structure & function) Location: Hubert van Eyck Page: 44	S47: Community Ecology (Succession & land-use change) Location: Hubert van Eyck Page: 50	S58: Community Ecology (Dispersal & distributions) Location: Hubert van Eyck Page: 54
S38: Evolutionary Ecology (Dynamics & environment) Location: Van der Goeszaal Page: 45	S48: Macroecology & Biogeography (Diversity, networks and interactions) Location: Van der Goeszaal Page: 50	S59: Macroecology & Biogeography (Function, abundance & phenology) Location: Van der Goeszaal Page: 54
S39: Global Change Ecology (Adaptation, resistance, resilience) Location: Van Rysselberghezaal Page: 46	S49: Global Change Ecology (Biodiversity & function) Location: Van Rysselberghezaal Page: 51	S60: Global Change Ecology (Sensitivity or mortality) Location: Van Rysselberghezaal Page: 54
S40: Population Ecology (Demography or life history) Location: Bauwenszaal Page: 46	S50: Evolutionary Ecology (Demography & reproduction) Location: Bauwenszaal Page: 51	S61: Agricultural Ecology (Landscapes & diversity) Location: Bauwenszaal Page: 55
S41: Soil Ecology & Plant-Soil Interactions (Plant-soil interactions & feedbacks) Location: Baekelandzaal 1 Page: 47	S51: Population Ecology (Adaptation & environmental change) Location: Baekelandzaal 1 Page: 51	S62: Invasive Species (Expansion & environment) Location: Baekelandzaal 1 Page: 55
S42: Macroecology & Biogeography (Ranges, distributions & dispersal) Location: Baekelandzaal 2 Page: 47	S52: Behavioural Ecology (Movement & dispersal) Location: Baekelandzaal 2 Page: 51	S63: Behavioural Ecology (Adaptation) Location: Baekelandzaal 2 Page: 55
S43: Theoretical or Computational Ecology (Mechanisms & function) Location: Baekelandzaal 3 Page: 48	S53: Species Interactions (Competition, facilitation & coexistence) Location: Baekelandzaal 3 Page: 52	S64: People & Nature (Conservation) Location: Baekelandzaal 3 Page: 56
S44: Parasites Pathogens or Wildlife Disease (Spread & persistence) Location: Guislainzaal 1 Page: 48	S54: Conservation Science (Services & functions) Location: Guislainzaal 1 Page: 52	S65: Parasites Pathogens or Wildlife Disease (Populations & communities) Location: Guislainzaal 1 Page: 56

PLENARY LECTURES

Tuesday 09:00-10:30

Iain Couzin

**Max Planck Institute
for Ornithology**



Iain is Director of the Max Planck Institute for Ornithology, Department of Collective Behaviour, and the Chair of Biodiversity and Collective Behaviour at the University of Konstanz, Germany. Previously he was a full Professor in the Department of Ecology and Evolutionary Biology at Princeton University, and prior to that a Royal Society University Research Fellow in the Department of Zoology, University of Oxford, and a Junior Research Fellow in the Sciences at Balliol College, Oxford. His work aims to reveal the fundamental principles that underlie evolved collective behavior, and consequently his research includes the study of a wide range of biological systems, from insect swarms to fish schools and primate groups. In recognition of his research he has been recipient of the Searle Scholar Award in 2008, top 5 most cited papers of the decade in animal behavior research 1999-2010, the Mohammed Dahleh Award in 2009, Popular Science's "Brilliant 10" Award in 2010, National Geographic Emerging Explorer Award in 2012 and the Scientific Medal of the Zoological Society of London in 2013. @icouzin

Understanding how social interactions shape biological processes is a central challenge in contemporary science. Using an integrated experimental and theoretical approach I will address how, and why, animals exhibit highly-coordinated collective behavior. I will demonstrate new imaging technology that allows us to reconstruct (automatically) the dynamic, time-varying networks that correspond to the visual cues employed by organisms when making movement decisions. Sensory networks are shown to provide a much more accurate representation of how social influence propagates in groups, and their analysis allows us to identify, for any instant in time, the most socially-influential individuals within groups, and to predict the magnitude of complex behavioral cascades before they actually occur. I will also introduce a new fully-immersive Virtual Reality environment for freely-moving animals, and investigate the coupling between spatial and information dynamics in groups. Emergent problem solving is shown to be the predominant mechanism by which mobile groups sense, and respond to complex environmental gradients, which has consequences for conservation of group-living species. Finally, I will reveal the critical role uninformed, or unbiased, individuals play in effecting fast and democratic consensus decision-making in collectives, including with experiments involving schooling fish and wild baboons.

PLENARY LECTURES

Wednesday 08:30-09:30

Carlos Herrera

Estación Biológica de
Doñana, CSIC



Carlos (Sevilla, 1952) is an honoured biologist with a profound knowledge of species and species interactions; a respected teacher and a person who dedicates his life and work to nature conservation. He studied in the University of Sevilla, where he obtained a degree in Biology in 1974, and a PhD in Biology in 1977. In 1979, he entered the Consejo Superior de Investigaciones Científicas (CSIC) as permanent scientist in the Estación Biológica de Doñana (Sevilla), and he has been Professor of Research at the same institution since 1986. Carlos initially trained as an ornithologist, but his scientific work has subsequently focused on most facets of the evolutionary ecology of interactions between plants and animals, including plant-frugivore, plant-pollinator and plant-herbivore systems, as well as the plant-pollinator-fungi tritrophic system. His scientific publications include 230 articles/book chapters and 10 books/monographs. In addition to his scientific activity, throughout his career he has extensively committed himself with scientific divulgation directed at raising public awareness on the social and biological values of biodiversity (80+ publications). He is also actively involved in transferring scientific knowledge to the conservation and management of Cazorla Natural Park in south eastern Spain, his principal study area and an outstanding biodiversity hotspot.

Ernst Haeckel Prize



The ecology of subindividual variability in plants

Diversification of ecology into subdisciplines, running from macroecology to community and population ecology, largely reflects specialization on different segments along the spatial gradient over which ecological patterns and processes are recognizable. In all cases the elemental units that build up the patterns, and participate in the processes of interest to ecologists, are individuals from the same or different species. No distinct flavor of ecology has so far emerged that focuses on patterns and processes around the lowermost end of the spatial gradient, which in the case of plants corresponds to the within-individual domain. Intra-individual heterogeneity in organ traits, however, may have multiple consequences for individuals, populations and communities. This lecture will first provide an overview of current knowledge on plant traits that vary subindividually, the magnitude of subindividual variation, and its spatial patterning. Examples will then be presented on the consequences of subindividual variation for plants and animal consumers at individual, population and community levels. Finally, the recently emerging links between transgenerational epigenetics, subindividual variation and population ecology will be illustrated using results of recent investigations on the epigenetic correlates of variation in seed size, a functional plant trait whose central role in plant population dynamics has been long acknowledged.

PLENARY LECTURES

Thursday 08:45-09:15

Louise Vet
Netherlands Institute
of Ecology (NIOO)



Louise is director of the Netherlands Institute of Ecology (NIOO), one of the largest institutes of the Royal Netherlands Academy of Arts and Sciences (KNAW) and Professor of Evolutionary Ecology at Wageningen University. Louise was awarded several international prizes for her research on multitrophic interactions and community functioning, delivering basic knowledge for the strategic development of sustainable agro-ecosystems (e.g. British Rank Prize for Nutrition). Louise is an elected member of the Royal Netherlands Academy of Arts and Sciences. She published more than 200 papers in international journals (h-index 52). Apart from the University of Leiden and Wageningen University she conducted research at the University of Riverside, California, Simon Fraser University, Vancouver, and the University of Toronto, Canada.

Louise is a biologist with a broad interest in ecology and evolution, and devoted to emphasize the societal impact of ecological science, stimulating a positive interaction between ecology and economy. She serves on a diversity of national and international boards and committees. Selection: Chair of the Netherlands Ecological Research Network (NERN); the Environment Steering Panel of the European Academies Science Advisory Council; Chair of the Scientific Programme Indonesia – Netherlands; Circle-Economy.com, WWF-NL, Commonland, etc.

Louise was the driving force behind NIOO's prize winning sustainable laboratory/office complex (www.nioo.knaw.nl/en/building) for which she received the 2012 Golden Pyramid state prize. Linked to these building activities, she stimulates public-private partnerships to encourage new eco-technological developments. Louise is active in the media and in 'science for policy' and a frequently invited speaker (e.g. TEDxAmsterdam 2009 and 2011). Personal website www.nioo.knaw.nl/users/lvet @LEMVet

PLENARY LECTURES

Thursday 14:45-15:45

Sue Hartley

**York Environmental
Sustainability Institute,
University of York, UK**



Prof Sue Hartley is a community ecologist recognised internationally for her work on the interactions between organisms, particularly plants and their herbivores. She has studied plant-herbivore interactions from the sub-arctic to the tropical rainforest, published over 130 papers and trained over 30 PhD students. Currently, her research is focussed on using natural plant defences, particularly silicon, as a sustainable way to protect crops against pests.

Sue did a degree in biochemistry at the University of Oxford before applying her chemical knowledge to the study of plant defences against insect herbivores in a PhD at the University of York. She then moved to the Centre for Ecology and Hydrology before joining the University of Sussex in 2001, where her long-standing interest in the role of silicon as a plant defence began. In 2010 she moved back to the University of York to become Director of the York Environmental Sustainability Institute, an interdisciplinary partnership bringing together leading researchers from a broad range of disciplines to tackle key global challenges, including climate change, biodiversity loss and threats to food security.

Sue was the President of the BES, and has also served as a Council Member (1995-1998), the Vice-President (2004-2007) and Chair of Publications Committee (2006-2011) – she received the President's Medal in 2009 and the BES Award in 2012. She is a member of the BBSRC Strategic Advisory Panel on Agriculture and Food Security, Chair of the BBSRC/NERC Sustainable Agriculture Research Innovation Club, a fellow of the Royal Entomological Society and a trustee of the Royal Botanic Gardens, Kew. In 2009 she delivered the Royal Institution Christmas Lectures, becoming only the 4th woman to do since they were started by Sir Michael Faraday in 1825.

@profSueHartley

This lecture is supported by Wiley

WILEY

Silicon: its role in plant community ecology, crop protection and climate change mitigation

Silicon is now widely recognised to benefit plants through providing protection against biotic threats such as herbivores and pathogens, and by mitigating the impacts of abiotic stresses, such as drought. It is accumulated to particularly high levels in grasses, giving silicon a functional role in both natural ecosystems, where it is key driver of grass – grazer interactions, and agriculture, where it can provide sustainable methods of pest resistance for both food and forage crops.

I will describe how the induction and deployment of silicon defences varies in wild grasses, and the consequences for both the relative palatability of plant species and the performance of herbivores, before presenting more recent findings on the environmental, phenotypic and genotypic determinants of silicon uptake and deposition in plants. Abiotic factors, levels of herbivory, and plant physiology and gene expression, all affect plant silicon levels, but crop domestication has had relatively little impact. Lastly I will discuss how silicon defences might be affected by climate change and explain how understanding more about silicon could benefit our future food security and even assist efforts towards climate change mitigation.

I will show how one area of ecological research can move from “classical” community ecology to addressing current global challenges and how ecologists, through international collaboration and interdisciplinary approaches, can have real-world impact.

THEMATIC TOPIC SESSIONS

We are pleased to announce a diverse series of 13 Thematic Topic Sessions. These are focused around stimulating, diverse, and topical issues in ecology and aim to provide a forum for the discussion of timely and important questions, and to encourage the integration between disciplines. All sessions were chosen by open competition and include a keynote presentation and other invited speakers.

Below is the complete list of confirmed Thematic Topic sessions. Please refer to the main oral programme for the full list of speakers.

TUESDAY 12 DECEMBER

11:15 – 13:15

TT1: E2-Moves: From individual movements to eco-evolutionary consequences/dynamics

Organisers: Luca Börger (Swansea University), Dries Bonte (Ghent University), Johannes Signer (University of Goettingen)

Keynote: Emanuel Fronhofer (EAWAG) & Theoni Photopoulou (Nelson Mandela University)

Sponsor: EVENET

Location: Auditorium

Page: 28



TT2: Bridging the resilience of social-ecological systems with natural capital

Organisers: Chantal van Ham (Nature Based Solutions, IUCN), Marieke de Lange (Rijkswaterstaat), Marjolein Sterk (Wageningen University & Research)

Keynote: Lisen Schultz (Stockholm Resilience Centre, Stockholm University)

Location: Casinozaal 1

Page: 28

TUESDAY 12 DECEMBER

15:15 – 17:15

TT3: Global change and ecosystems: lessons from globally distributed observatories and experiments

Organisers: Kris Verheyen, Lander Baeten, Pieter De Frenne (Ghent University)

Keynote: Martin Diekmann (University of Bremen)

Location: Auditorium

Page: 32

TT4: Frontiers in agro-ecology: multi-trophic trait-based approaches for climate adaptability

Organisers: Gerlinde B. De Deyn (Wageningen University), Lijbert Brussaard (Wageningen University), Pablo García Palacios (Rey Juan Carlos University)

Keynote: Matty Berg (Vrije Universiteit Amsterdam)

Sponsor: BiodivERsA, FACCE-JPI and Eco-Serve

Location: Casinozaal 1

Page: 32



THEMATIC TOPIC SESSIONS

WEDNESDAY 13 DECEMBER

11:00 – 13:00

TT5: Using species traits to understand the structure and function of interaction networks

Organisers: Darren Gilling, Andrew Barnes, Jes Hines (German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig)

Keynote: Dominique Gravel (Université de Sherbrooke Quebec, Canada)

Location: Auditorium

Page: 39

TT6: The ecology-physiology-life-history nexus: integrating ecophysiology in evolving life history syndromes

Organisers: Robby Stoks (University of Leuven), Manuela Truebano (Plymouth University), Wilco Verberk (Radboud University)

Keynote: Enrico Rezende (Universidad Andres Bello)

Sponsor: Sarstedt, VWR, FWO-Evenet, Physiological Society

Location: Casinozaal 1

Page: 39



WEDNESDAY 13 DECEMBER

15:00 – 17:00

TT7: Linking functional diversity of terrestrial and marine primary producers – the potential of remote sensing

Organisers: Franziska Schrodtt (University of Nottingham) & Shovonlal Roy (University of Reading)

Keynote: Giles Foody (University of Nottingham)

Location: Auditorium

Page: 42

TT8: Rewilding as a contemporary conservation strategy

Organisers: Liesbeth Bakker (Netherlands Institute of Ecology, NIOO-KNAW), René van der Wal (Aberdeen Centre for Environmental Sustainability – ACES, University of Aberdeen), Anita Risch (Swiss Federal Institute for Forest Snow and Landscape Research WSL)

Keynote: Jens-Christian Svenning (Aarhus University)

Location: Casinozaal 1

Page: 43

THEMATIC TOPIC SESSIONS

THURSDAY 14 DECEMBER

09:45 – 11:45

TT9: Environmental and Ecological Metabolomics

Organisers: Mirka Macel (Radboud University Nijmegen) & Nicole M. van Dam (iDiv/FSU Jena)

Keynote: Caroline Müller (Bielefeld University)

Location: Auditorium

Page: 49

TT10: Are we any good at simulating ecology? Success and future challenges in ecological simulation models

Organisers: Nick Golding (BES Quantitative Ecology), Florian Hartig (GfÖ Computational Ecology), Cédric Scherer (GfÖ Young Modellers in Ecology)

Keynote: David Orme (Imperial College London)

Location: Casinozaal 1

Page: 49

TT11: Winter ecology: expanding the focus in a changing world

Organiser: Robert Mills (Lancaster University), Liliane Rueß (Humboldt University), Bjorn Robroek (University of Southampton)

Keynote: Stef Bokhorst (Vrije Universiteit Amsterdam)

Sponsor: In association with the BES Plant, Soils, Ecosystems SIG

Location: Casinozaal 2

Page: 49



PLANTS
SOILS
ECOSYSTEMS

THURSDAY 14 DECEMBER

12:30 – 14:30

TT12: Eco-evolutionary dynamics in an urbanized world

Organisers: Luc De Meester & Kristien Brans (KU Leuven)

Keynote: Marina Alberti (University of Washington)

Sponsor: EVENET

Location: Auditorium

Page: 52



TT13: Plant-pollinator interactions in the changing Arctic and Montane

Organisers: Joanne Bennett (German Centre for Integrative Biodiversity Research, iDiv/Martin Luther University Halle-Wittenberg) & Tiffany Knight Bennett (German Centre for Integrative Biodiversity Research, iDiv/Martin Luther University Halle-Wittenberg/Helmholtz Centre for Environmental Research-UFZ)

Keynote: Tiffany Knight (Martin Luther University Halle-Wittenberg)

Location: Casinozaal 1

Page: 53



Gesellschaft für Ökologie e.V.

The Ecological Society of Germany, Austria and Switzerland



Specialist groups



Research Awards

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WORKSHOPS OVERVIEW

Tuesday 12 December 13.30 – 15.00

An Accessible Introduction to Integrated Population Models for Ecological and Evolutionary Research	Hubert van Eyck
Ecology is fun! Designing interactive games for outreach	Bauwenszaal
How can Citizen Science Advance Ecology? From Data Collection to Biodiversity Observation Network Design and Mobile Technology Application	Van der Goeszaal
Introducing the Coding Club model for transferring quantitative skills among ecologists	Jan Van Eyckzaal
Navigating the unfolding Open Data landscape in ecology and evolution	Casinozaal 2
Qualitative techniques for decision making in conservation	Conceptstore
Stress awareness and mental wellbeing at work	Baekelandzaal 1

An Accessible Introduction to Integrated Population Models for Ecological and Evolutionary Research

Location: Hubert van Eyck

Organisers: Mitch D. Weegman (University of Missouri)

In this workshop, facilitators Prof. David Hodgson and Dr. David Koons will join organiser Dr. Mitch Weegman to highlight the questions in ecology and evolution that researchers can address using Integrated Population Models (IPMs). Workshop participants will work interactively to develop IPMs using real data, and gain hands-on practice compiling IPMs in the BUGS programming language run from the Program R platform. The facilitators will close with a discussion synthesizing the research questions that can be addressed and review how IPMs provide the robust methodological framework to answer these questions. Participants should bring laptops and have downloaded Program R, JAGS, and the jagsUI package for R.

Ecology is fun! Designing interactive games for outreach

Location: Bauwenszaal

Organisers: Sara Mynott & Emmanuelle Briolat (University of Exeter)

Interactive games allow research to be shared in an engaging and memorable way. They also present a novel tool for citizen science, allowing researchers to gather meaningful data while engaging the general public. But what makes an effective game – one that aids understanding, fuels excitement and keeps people coming back? This workshop will give you the skills to plan, deliver and evaluate your own games, whether

they're used for outreach or citizen science. Following an introduction to games and what to consider, participants will work together to plan an engaging game on a topic of their choice. You may find a laptop or tablet useful here – we'll provide pens, paper and a number of examples to get you started. During game development we will offer our guidance on how to reach your target audience and tackle common challenges. Participants will take home a series of collaborative resources, useful contacts and new skills for their science communication toolkit. The workshop will close with tips on how to keep your audience interested and use interactive games as evidence of research impact.

How can Citizen Science Advance Ecology? From Data Collection to Biodiversity Observation Network Design and Mobile Technology Application

Location: Van der Goeszaal

Organisers: Helen Roy (CEH), Michael Pocock (CEH), Florian Heigl (University of Natural Resources and Life Science), Daniel Dörler (University of Natural Resources and Life Science), Anett Richter (UFZ/iDiv) & Aletta Bonn (UFZ/FSU Jena/ iDiv)

Citizen Science is already providing 80-85% of all biodiversity data in Europe that are crucial for national reporting. In this interactive, creative future lab (Zukunftswerkstatt) we will map and discuss the following: How technical and social innovation can advance the field of biodiversity monitoring, and; how we can develop mobile technologies and new opportunities for engagement, as well as standards and indicators to advance this field. From project design to

WORKSHOPS OVERVIEW

Tuesday 12 December 13.30 – 15.00

technological advances (including mobile and automated monitoring), participants will exchange experiences and ideas on how we can advance the usefulness of individual citizen science projects to foster biodiversity research and analysis of change.

Introducing the Coding Club model for transferring quantitative skills among ecologists

Location: Jan Van Eyckzaal

Organisers: Gergana Daskalova (University of Edinburgh), John Godlee (University of Edinburgh), Francesca Mancini (University of Aberdeen) & the Coding Club Team

Sponsor: University of Edinburgh, Principal's Teaching Award Scheme

Coding Club brings together people at different career stages to create a supportive environment for knowledge exchange and collective advancement of quantitative skills. We combine peer-to-peer workshops and online tutorials to promote statistical and programming fluency. We will use a tutorial on analysing big data in ecology to demonstrate how we can deliver quantitative training across academic institutions, after which participants will develop their own tutorials. The workshop will benefit participants by building capacity for innovative quantitative teaching, spearheading Coding Clubs on a wider scale, and advancing skills in efficiently analysing large datasets. Please bring a laptop with RStudio installed.



THE UNIVERSITY
of EDINBURGH

Navigating the unfolding Open Data landscape in ecology and evolution

Location: Casinozaal 2

Organiser: Antica Culina (Netherlands Institute of Ecology, NIOO-KNAW)

Sponsor: NIOO-KNAW

This interactive workshop will enable researchers to efficiently find and use openly available ecological and evolutionary datasets. The participants will learn:

- Where and how to easily find and get access to ecological/evolutionary datasets
- A practical 45 minute exercise using data search platforms to find data of interest using data search platforms (45 min exercise)
- What to keep in mind when using others' data or using data
- The importance of properly describing your own data, and the best practices to achieve this



NEDERLANDS INSTITUUT VOOR ECOLOGIE (NIOO-KNAW)
NETHERLANDS INSTITUTE OF ECOLOGY (NIOO-KNAW)

Participant are expected to bring their laptops (for data-search).

Qualitative techniques for decision making in conservation

Location: Conceptstore

Organisers: Nibedita Mukherjee (University of Exeter, University of Cambridge), Jean Hugué (Université Libre de Bruxelles, University of Hasselt, University of Ghent, Vrije Universiteit Brussel), David C. Rose (University College London)

We aim to provide a brief overview of five techniques used for decision making in conservation (Nominal Group Technique- NGT, Focus Group Discussion-FGD, Delphi technique, Q method and Interviews). This will be followed by a hand-on demonstration of some of the techniques (e.g. NGT and Q) which are less well known.

Stress awareness and mental wellbeing at work

Location: Baekelandzaal 1

Bernadette Lynch (Mind) & Richard English (British Ecological Society)

This inclusive workshop will increase awareness of unproductive stress and offer techniques for managing it in an academic context. Participants will learn how to spot early signs of stress in themselves and their colleagues; it will also offer options for reducing the negative impacts of anxiety. We will look at ways to maintain mental wellbeing, understand possible reasons for stress and how to promote a mentally healthy culture in an academic community.

This workshop is ideal for supervisors or managers who are keen to know how to support their team and anyone who has experienced mental health issues and wants to learn coping mechanisms.



WORKSHOPS OVERVIEW

Wednesday 13 December 13.15 – 14.45

Biotic interactions and joint species distribution modelling	Jan Van Eyckzaal
Who is there and how do we know? Navigating the complexities of taxonomy assignments during eDNA metabarcoding studies	Conceptstore
From theoretical ecology to seafood markets: advancing holistic marine conservation through ecolabeling	Hubert van Eyck
Introduction to Bayesian data analysis using STAN	Casinozaal 2
Media: from paper title to going viral on social media	Baekelandzaal 1
Building A Teaching Portfolio as an Early Career Researcher	Van der Goeszaal

Biotic interactions and joint species distribution modelling

Location: Jan Van Eyckzaal

Organiser: Carsten Dormann (University of Freiburg) & Casper Kraan (Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research)

Joint species distribution models (jSDMs) allow the quantification of associations among species. This is achieved using hierarchical models, which can be additionally informed by traits or phylogeny. jSDMs are currently a Wild West in ecological statistics. For the novice, this field is very difficult to enter. Several approaches exist, with very different assumptions and flexibility. During the workshop audience input will determine the direction and level of detail covered. The main intention is that the audience gets a good idea of the approach, its assumptions and limitations.

Who is there and how do we know? Navigating the complexities of taxonomy assignments during eDNA metabarcoding studies.

Location: Conceptstore

Organisers: Holly Bik (University of California), Simon Creer (Bangor University), John Colbourne (University of Birmingham)

Sponsor: NSF Research Coordination Network (RCN) EukHiTS

High-throughput sequencing approaches (eDNA metabarcoding and other –Omics workflows) are commonly carried out without any direct link between morphological and molecular data. One of the most challenging aspects of eDNA studies is the process of matching unknown nucleotides with a known taxonomic assignment (family, genus, or species ID). This workshop will clarify the use of databases and taxonomy assignment steps in eDNA metabarcoding studies. What tools and resources can (and should) be

used for particular environments and target organisms? If an appropriate tool/database does not exist, how do you go about constructing your own local resource?



From theoretical ecology to seafood markets: advancing holistic marine conservation through ecolabeling

Location: Hubert van Eyck

Organisers: Emily McGregor & Catherine Longo (Marine Stewardship Council)

This Marine Stewardship Council (MSC) hosted workshop aims to offer a collaborative space to exchange up-to-date information on best practice in ecosystem-based resource management, particularly on mitigating food-web mediated impacts of fishing on ecosystems. We envisage that this workshop will result in a synthetic overview of current ecosystem health indicators that are measurable in the real world to evaluate fishing impacts (i.e., taking into account practical constraints to implementation such as data collection, monitoring, fishing industry willingness to comply, governance burden, etc.) By contributing to this discussion participants have the opportunity to inform the ongoing review of the MSC fisheries standard requirements.

WORKSHOPS OVERVIEW

Wednesday 13 December 13.15 – 14.45

Introduction to Bayesian data analysis using STAN

Location: Casinozaal 2

Organisers: Lionel Hertzog (Ghent University) & Maxime Dahirel (University of Rennes)

The aim of this workshop is to arm the participants with working knowledge of data analysis using bayesian approaches in STAN. In this workshop, participants will be given a brief introduction into the specificities of bayesian data analysis focusing on issues specific to ecological datasets and questions. Models of increasing complexity will be fitted using R in an interactive session. The workshop will end with small discussion groups where participants will be given the opportunity to discuss issues related to their specific questions and/or data. Participants are invited to look up this page: <https://github.com/Lionel68/STAN-BES-2017> for further information regarding software requirements.

Media: from paper title to going viral on social media

Location: Baekelandzaal 1

Organiser: Sabrina Weiss (BES) & Juliane Röder (GfÖ)

How to attract media attention? What makes a good story? How can visual content and digital media tools help you reach a wider audience?

We've brought together press officers and members with media expertise to share their experiences with anyone seeking increased press coverage and interested in learning more about the use of digital content to communicate internationally. Through a series of case studies, participants will gain a better understanding of what journalists are looking for in a story and how to work with press offices to generate coverage for a paper or project.

Building A Teaching Portfolio as an Early Career Researcher

Location: Van der Goeszaal

Organiser: Lewis J Bartlett – University of Exeter & University of California Berkeley

Increasingly, universities seek formal evidence of teaching excellence – understanding how to identify teaching development opportunities and building a well-rounded portfolio is a new career challenge. In this workshop, we will deconstruct example portfolios and outline pathways to professional HE-teaching accreditation. We will identify current strengths and areas for development; the goal is to leave with the outlines of a portfolio written, and specific ideas of how to fill experience gaps. We will discuss engaging with ongoing development of ecological pedagogy, educational literature, regional HE initiatives, and outreach. We are not developing teaching skills, but learning about proactively navigating professional development and building a portfolio.

CAREERS DEVELOPMENT PROGRAMME

We have a great programme this year, with something for everyone and open to anyone regardless of their career stage.

For all your careers chat, use @BES_Careers #BESCareers.

Tuesday 12 December

08.00 Women in Science

Location: Guislainzaal 3

Open to all those involved in, or interested in, our women in ecology mentoring schemes and to those who simply wish to network. Two of this year's mentors and mentees will be on hand to share their experiences (Refreshments and pastries provided)

10.30 Meet the plenary speaker

Location: Guislainzaal 3

Open to all PhD students and early carer researchers, Iain Couzins has kindly agreed to join us for coffee after his plenary talk to answer your questions in a more informal and friendly environment.

13.30 Mid Career Grant Writing catch up meeting

Location: Guislainzaal 3

For all those delegates who attended our mid-career grant writing retreat, please do join us for lunch to catch up on progress, seek each other's advice and discuss next steps.

13.30 Careers outside academia

Location: Baekelandzaal 2

Join us and our panel members to discuss the career options available to you outside of academia for this ever popular discussion.

Wednesday 13 December

10.30 Meet the plenary speaker

Location: Guislainzaal 3

Open to all PhD students and early carer researchers, Carlos Herrera has kindly agreed to join us for coffee after his plenary talk to answer your questions in a more informal and friendly environment.

13.30 How to be a good reviewer

Location: Baekelandzaal 2

Open to all early career researchers who are interested in becoming a reviewer and those who have just started out who would like to improve their skills set, this session is delivered by our publications team and will provide advice and guidance.

13.30 BES Undergraduate and education alumni network

Location: Guislainzaal 3

Whether you were part of the BES summer school, our fellowship programmes or ambassadors programmes, this informal lunch session allows you to meet up and catch up with all education programme alumni. Please do come along and tell us how you've been getting on!

PRESENTER INFORMATION

ORAL PRESENTERS

Each speaker is allotted 15 minutes, unless you are a Thematic Topic Session keynote speaker (contact your organiser) or a lightning talk speaker (see below). Presentations for standard oral sessions must not exceed 13 minutes, allowing 2 minutes for discussion. Please refrain from preparing a 15 minute talk. The Session Chair will keep you to time, signalling when you have 5 minutes and 1 minute speaking time remaining until you must stop to take questions. They will stop you if you reach 15 minutes.

All lightning talks are limited to 1 minute. You are also limited to a single slide. The Session Chair will introduce you and give your presentation title, so there is no need for you to repeat this. The Session Chair will also keep you to time.

The meeting supports Microsoft PowerPoint and PDF presentations. We are not able to support Keynote. All lecture theatres will be equipped with a projector, lectern and laser pointer. A volunteer will be available in each room to assist in your session. There will also be an AV technician on each floor. Delegates are not permitted to run presentations from their own laptop.

All presentations should be uploaded in advance onto the central server in the Speaker's Area (first floor foyer desks). Please report to the Speakers' Area no later than 3 hours before your scheduled presentation time. If possible you should upload your presentation the day before your talk. If your presentation is scheduled for the morning of Tuesday 12 December, please report to the Speaker's Area on Monday 11 December between 14:00 – 17:00.

The Speakers' Area is located in the centre of the first floor foyer at two desk areas and will be open at the following times:

Monday 11 December	14.00 – 17.00
Tuesday 12 December	08.00 – 17.00
Wednesday 13 December	08.00 – 17.00
Thursday 14 December	08.30 – 13.00

In the Speakers' Area, facilities will be available to view your presentation before submitting. You will be able to control the advance of your slides from the lectern in your session room.

Please arrive at your session 15 minutes prior to the published start time. Before the start of your session, please make yourself known to your Chair and indicate how you would like to be introduced. For multi-author papers it is essential you have all authors' permission to give the presentation.

POSTER PRESENTERS

Your poster will be displayed in the poster viewing area of Pedro de Gante, the main Exhibition Hall of the conference centre.

All posters should be portrait/vertical orientation measuring 841mm wide and 1189mm tall. This is the International A0 format. Posters will be attached with material provided on the day.

Your poster will be displayed according to your poster number found in this programme. There will be a volunteer on the Poster Table to help you on the day.

Your poster will be allocated to one of the two formal poster sessions listed below, during which you are required to stand at your poster and discuss your work with delegates. This is a valuable opportunity to publicise your research.

Poster numbers with a letter followed by the number 1 (A1 – N1) will be part of Poster Session 1 taking place on Tuesday 12 December, 17:15 – 18:45.

Posters can be put up from 19:00 on Monday 11 December. All posters **MUST** be in place by 10.30 on Tuesday 12 December.

Posters must be removed at the end of the first poster session. Any posters not removed may be disposed of.

Poster numbers with a letter followed by the number 2 (A2 – N2) will be part of Poster Session 2 taking place on Wednesday 13 December, 18:00 – 19:30

Posters can be put up from 08:00 on Wednesday 13 December. All posters must be in place by 10.30 on Wednesday 13 December.

Posters must be removed between 12:30 and 16:00 on Thursday 14 December. Any posters not removed may be disposed of.

PRESENTER INFORMATION

TALK & POSTER STUDENT PRIZES

Student prize judging is based on categories including: style, scientific content, originality of research, and effectiveness of communication. The winners will be announced after the meeting.

If you submitted your poster for the Student Poster Prize, there will be a coloured sticker on your poster board. Judging will take place throughout the poster sessions.

If you entered your talk for the Student Talk Prize, judging will take place during your session.

ABSTRACT PUBLICATION AND ACCESS

All abstracts can be accessed via the EAB Annual Meeting mobile app. To download the app, visit: eventmobi.com/EAB2017 on your laptop, mobile device, or tablet.

SOCIAL MEDIA POLICY

We love social media – it's a great way to connect with people across the world, to share ideas and create collaborations. We heartily encourage people to tweet, post and share their experiences – our Annual Meeting is all about building relationships.

However, we understand that some people will not want their research broadcast. We respect that, so have created a 'do not share' image for people add to their poster or talk slides. We hope that fellow attendees will respect this request and refrain from sharing that slides or posters containing the below image. If people do not include this image on their presentation, we will assume they are happy for their research to be shared.



NOTES

Handwriting practice lines consisting of 20 horizontal dotted lines.

ORAL PRESENTATIONS

Tuesday 12 December

Please note that lunch, coffee breaks and other events are not included in the following printed scientific programme, so please ensure you check the start time and refer back to the main meeting overview (pages 8 and 9) when planning your schedule for the day. **Prize winners are highlighted in red.** Lightning talks will be given at the end of the afternoon oral sessions, giving poster presenters an opportunity to promote their work before the poster session. These talks are highlighted in dark blue. Please note presenter names only are listed in the printed programme. A full list of authors will be accessible along with abstracts on the mobile app eventmobi.com/EAB2017.

TT1: E2-Moves: From Individual Movements to Eco-evolutionary Consequences and Dynamics

Location: Auditorium
Chair: Luca Börger

- 11:15 Dries Bonte:** How individual movement connects ecology and evolution at multiple spatial scales
- 11:30 Merel Soons:** Ecology and evolution of directed dispersal in wetland plants
- 11:45 Emanuel Fronhofer:** Species interactions, dispersal and the eco-evolutionary dynamics of spatially structured communities
- 12:15 Ulrike Schlägel:** Estimating individual responses to conspecifics in movement behaviour of bank voles
- 12:30 Julien Cote:** Species responses to climate change: accounting for intraspecific variation in dispersal
- 12:45 Theoni Photopoulou:** What is exciting about the future of methods for movement ecology? Thinking differently about space, time and multiple data types.

TT2: Bridging the Resilience of Social-Ecological Systems with Natural Capital

Location: Casinozaal 1
Chair: Chantal van Ham

- 11:15 Lisen Schultz:** Resilience thinking from theory to practice
- 11:45 Andrea Downing:** The mathematics of sustainable development: How processes add up, down and sideways

- 12:00 Chantal Van Ham:** Nature-based Solutions – unlocking opportunities for investing in society and economy in a changing climate
- 12:15 Rosemary Hails:** Research Challenges around Valuing Nature
- 12:30 Marieke de Lange Marieke:** The art of making natural capital happen in the world of Rijkswaterstaat
- 12:45 Discussion**

S1: Conservation Science (Landscapes, Connectivity & Dispersal)

Location: Casinozaal 2
Chair: Keith Kirby

- 11:15 Breiner Frank:** Assessing the vulnerability of critical sites for migrating birds in the Africa-Eurasian flyway
- 11:30 Cécile Albert:** Simulating dispersal in a habitat network: on the complementarity of distance and cost to predict dispersal patterns
- 11:45 Alienor Jeliaskov:** Cross-scale approach of structural and functional connectivity for amphibian conservation in agricultural landscape
- 12:00 Bruno Suárez-Tangil:** Identifying critical connectivity routes for carnivores across a Mediterranean agroecosystem
- 12:15 Nandintsetseg Dejid:** Spatiotemporal dynamics in space use of Mongolian gazelle: Conservation implications of nomadic movements
- 12:30 Tsipe Aavik:** The role of landscape-scale dispersal in restoring plant species and genetic diversity
- 12:45 Jamie Alison:** Using individual-based models to explore the interaction between agri-environment scheme-created habitats and source populations

ORAL PRESENTATIONS

Tuesday 12 December

13:00 Kirsty Park: Using historical woodland creation sites as test landscapes to inform future conservation actions

S2: Agricultural Science (Policy & management)

Location: Conceptstore

Chair: Silvia Winter

11:15 Olaf Schmidt: Global meta-analysis of the effects of tillage on earthworm populations

11:30 Barbara Smith: Biodiversity, Food and Health: can we have it all?

11:45 Adam Hejnowicz: A Brave New World: Visions of Agricultural Policy Post-Brexit – Where Do We Go From Here, And How Do We Measure It?

12:00 Julia Rosa: Diversified Farming Systems: a review on ecological-economic trade-offs and benefits

12:15 Douglas Boucher: The assumption of increasing inefficiency underlying the projected need for food in 2050

12:30 Harald Albrecht: Development of the arable vegetation 23 years after the change from conventional to organic farming – experiences on a farm scale

12:45 Silvia Winter: Effects of management intensity and landscape on plant diversity, species composition and functional traits in European vineyards

13:00 Marten Winter: Is the CAP fit for purpose? An evidence-based Fitness Check of the Common Agricultural Policy

S3: Community Ecology (Community Assembly & Stability)

Location: Jan Van Eyckzaal

Chair: Korinna Allhoff

11:15 Andreas Prinzing: Evolutionary neighbourhood and climate interact to select for heritable defense phenotypes

11:30 Sofia van Moorsel: Community evolution increases community stability in a grassland biodiversity experiment

11:45 Sebastian Lehmann: Size structured neutral theory explains multiple diversity patterns in a tropical forest

12:00 Nadja Rüger: Beyond the fast-slow continuum: A novel trade-off structuring demographic dimensions of tropical trees

12:15 Heidi Mod: Ecological assembly rules in defining vegetation are scale-dependent: new insights using JSDM-approach

12:30 Benjamin Delory: Plant functional group order of arrival and sown diversity are strong drivers of plant community assembly and ecosystem functioning in dry acidic grasslands

12:45 Duarte Viana: Spatial scaling in the study and inference of community assembly processes

13:00 Roel Van Klink: Functional differences stabilize beetle communities by weakening interspecific temporal synchrony

S4: Ecosystem & Functional Ecology (Modelling ecosystems)

Location: Hubert van Eyck

Chair: Ciska Veen

11:15 Juerger Kreyling: To replicate, or not to replicate – that is the question: Paradigm shift to unreplicated multi-level designs of ecological experiments

11:30 Tina Heger: Ecological novelty: an integrative concept for a changing world

11:45 Masahiro Ryo: A roadmap for temporal ecology

12:00 Ralf Schäfer: Advancing understanding and prediction in multiple stressor research through a mechanistic basis for null-models

12:15 Beth Scott: How to assess the ecological cost/benefit of future climate vs anthropogenic changes using joint modelling and common spatial trends of mobile marine predators and their prey

12:30 Sebastian Fiedler: What is the optimal vegetation composition for restoring Mediterranean-type ecosystems? – An integrated empirical and simulation modelling approach

12:45 Mateus Dantas de Paula: Quantifying the effects of Forest Fragmentation on Transpiration and Total surface runoff using a forest simulation model.

13:00 Henrik Smith: Scale-dependent mitigation of pollination – winners and losers

ORAL PRESENTATIONS

Tuesday 12 December

S5: Population Ecology (Dynamics or Stability)

Location: Van der Goeszaal

Chair: Harald Meimberg

- 11:15 Thomas Ezard:** Dampening expectations of the damping ratio's use in predicting transient amplifications in structured population dynamics
- 11:30 Junnosuke Horita:** To stay in the stream or to migrate down to the ocean -- density-dependent juvenile growth may lead to fluctuating population and evolutionary bistability.
- 11:45 Lise Aubry:** Black bear behavior, ecology, and population dynamics in a human-dominated landscape
- 12:00 Daniel Oro:** Population effects of transient individuals detected by mark-recapture studies
- 12:15 Romy Harzer:** Interactions between habitat availability and population dynamics: Floodplain restoration and reintroduction of Alpine river plants
- 12:30 Gaurav Baruah:** Factors underlying trait dynamics can affect the detectability of early warning signals of population decline.
- 12:45 Stephanie Jenouvrier:** Climate change and functional traits impact population dynamics of a long-lived seabird.
- 13:00 Nicolas Schtickzelle:** A simplified Mark Release Recapture protocol to improve the cost-effectiveness of repeated population size quantification

S6: Global Change Ecology (Habitats, Distributions & Range Shifts)

Location: Van Rysselberghezaal

Chair: Alan Jones

- 11:15 Andrew Suggitt:** What makes a climate refugium? Climate change, microclimate and range-retracting species.
- 11:30 Ali Birkett:** The link between species thermal tolerances and climate driven range constrictions: a case study using dung beetles in UK uplands.
- 11:45 Kadri Koorem:** Plant-soil feedback of range expanding plant species is influenced more by relatedness with the native species than by the origin of soil biota

- 12:00 Stefan Kruse:** How fast are larch trees migrating across the treeline border in Siberia under recently increasing temperatures? – results from a combined approach of genetics and modelling.
- 12:15 Daniel Scherrer:** Ecological indicator values reveal missing predictors of plant distributions
- 12:30 Jelena Lange:** Growing season water availability and micro-site conditions significantly affect summer temperature signals of Scots pine at its northern distribution limits
- 12:45 Miki Nomura:** Occupying newly opened habitat – the role of niche breadth, species traits and spatial habitat properties.
- 13:00 Dirk Maes:** The need for large-scale distribution data to estimate regional changes in species richness under future climate change

S7: Behavioural Ecology (Cooperation, Groups & Personalities)

Location: Bauwenszaal

Chair: David Bierbach

- 11:15 Isabella Capellini:** Male care and social monogamy evolve in a two-steps feedback process in mammals
- 11:30 Paul Mensink:** Patchy personalities: prey distribution and the foraging success of behavioural syndromes
- 11:45 Gabriela Hajduk:** Inbreeding, infidelity & unexpected effects of the social environment in a cooperatively-breeding superb fairy-wren.
- 12:00 Stotra Chakrabarti:** Dominance and Promiscuity: social organization of the last lions of Asia
- 12:15 Laurence Cousseau:** Who mates with whom? Extra-pair paternity and within-group relatedness in the Afrotropical cooperative breeder placid Greenbul (*Phyllastrephus placidus*)
- 12:30 Aurélien Kaiser:** Urbanization affects personality traits across metamorphosis in the Speckled wood butterfly *Pararge aegeria*
- 12:45 Jennifer Morinay:** Personality and social information use in collared flycatchers: age and sex matter
- 13:00 Ross Coleman:** To group or not to group: Antisocial behaviours can explain aggregation in limpets

ORAL PRESENTATIONS

Tuesday 12 December

S8: Soil Ecology & Plant-Soil Interactions (Roots & mycorrhizae)

Location: Baekelandzaal 1
Chair: Francois Buscot

- 11:15 **Catherine Preece:** Thirsty roots, their exudates and impacts on soils
- 11:30 **Martin Weiser:** Root foraging and its cost: beyond species traits
- 11:45 **Angela Straathof:** Post-drought root exudation and resulting soil microbial activity is plant-species dependent
- 12:00 **Johan De Gruyter:** The response of AMF-inoculated soil microbial food webs under different drought regimes
- 12:15 **Sandra Varga:** Arbuscular mycorrhizal fungi effects on plants' DNA methylation
- 12:30 **Amit Kumar:** Importance of root hairs in nutrient acquisition and driving plant-soil interactions
- 12:45 **Joana Bergmann:** Revisiting general assumptions about root fineness
- 13:00 **Jill Kowal:** From rhizoids to roots? Experimental evidence of mutualism between liverworts and ascomycetes

S9: People & Nature (Citizen Science)

Location: Baekelandzaal 2
Chair: Aletta Bonn

- 11:15 **Franz Bogner:** Sustainability Citizenship: Combining Knowledge, Attitudes, Values and Behaviour
- 11:30 **Sarah Pierce:** Who does ecological citizen science? An analysis from 10 years of the OPAL project
- 11:45 **Pen-Yuan Hsing:** Science and citizenship: Capacity building for civic engagement through the MammalWeb citizen science project
- 12:00 **Julie Sheard:** 150 years of ants in Denmark revealed through museum collections and citizen science
- 12:15 **Tom August:** Quantifying the behaviour of Citizen Scientists reveals the origins of bias in volunteer collected data
- 12:30 **Luc De Bruyn:** Can citizen science produce reliable data to monitor wild bees?
- 12:45 **Johannes Rüdiger:** Can laypeople contribute to butterfly monitoring?

- 13:00 **Rene Van der Wal:** Automated feedback in citizen science for data, engagement and positive environmental action

S10: Species Interactions (Networks)

Location: Baekelandzaal 3
Chair: Kelly Ramirez

- 11:15 **Jörg Albrecht:** Functional diversity of plants and animals limits interaction diversity and complementarity in mutualistic networks
- 11:30 **Elizabeth Raine:** Predicting the effects of defaunation on a quantitative dung beetle – mammal interaction network
- 11:45 **Natasha De Manincor:** Plant-insect phenology overlap explains ecological network structure in French calcareous grasslands
- 12:00 **Frank Jauker:** Contributions of wild bees and hoverflies to plant-pollinator network structure along an altitudinal gradient – lessons for future environmental change?
- 12:15 **Zdeněk Janovský:** Plant-pollinator networks: the importance of small-scale spatiotemporal variation
- 12:30 **Lise Ropars:** Which impacts of honeybee introductions on pollination networks in urban habitats?
- 12:45 **Callum Macgregor:** Wildfire alters the structure and seasonal dynamics of Mediterranean nocturnal pollination networks
- 13:00 **Adam Vanbergen:** Network size, structure, and mutualism dependence affect the propensity for plant-pollinator extinction cascades

S11: Invasive Species (Management & Monitoring)

Location: Guislainzaal 1
Chair: Xavier Lambin

- 11:15 **Anna Treydte:** An eco-friendly management tool for invasive plants *Tagetes minuta* and *Gutierrezia cordifolia* in the Ngorongoro Conservation Area, Tanzania
- 11:30 **Pieter Boets:** Using environmental DNA to detect alien invasive species in temperate and tropical regions
- 11:45 **Els Van Burm:** Optimal monitoring for managing invasive ants on Christmas Island (Australia)
- 12:00 **Thomas Etherington:** Using network connectivity to prioritise sites for the control of invasive species

ORAL PRESENTATIONS

Tuesday 12 December

- 12:15 Chanida Fung:** Aphalara itadori as a biocontrol for Japanese Knotweed under climate change
- 12:30 Christopher Baker:** Optimising invasive species' control when incorporating species interactions.
- 12:45 Dan Chadwick:** Utilising a novel surveying methodology for estimating invasive crayfish population demographics: a comparison of biases in contemporary crayfish survey techniques
- 13:00 Johannes Kollmann:** Monitoring ecological revitalisation of an Alpine river – effects on riparian dynamics, target species and invasive alien plants

TT3: Global Change and Ecosystems: Lessons from Globally Distributed Observatories and Experiments

Location: Auditorium
Chair: Lander Baeten

- 15:15 Martin Diekmann:** Global change research – what we can learn from long-term vegetation re-surveys across the globe
- 15:45 Sophia Ratcliffe:** Functional significance of forest biodiversity: A biodiversity and ecosystem service research platform in European forests
- 16:00 Kris Verheyen:** Common gardens of the 21st century: contribution of a global network of tree diversity experiments to sustainable reforestation
- 16:15 Pieter De Frenne:** Latitudinal gradients as natural laboratories to infer responses to temperature
- 16:30 Anne Bjorkman:** Consequences of environmental change in tundra ecosystems: lessons from the International Tundra Experiment (ITEX)
- 16:45 Elizabeth Borer:** The Nutrient Network (NutNet): a globally distributed experiment to understand the effects of fertilization and herbivores on grassland biodiversity and function
- 17:00 Harald Pauli:** The GLORIA network of alpine biodiversity observatories – achievements, data-based messages and the challenge of long-term operation

TT4: Frontiers in Agro-ecology: Multi-trophic Trait-based Approaches for Climate Adaptability

Location: Casinozaal 1
Chairs: Lijbert Brussaard, Pablo Garcia Palacios, Gerlinde De Deyn

- 15:15 Matty Berg:** Predicting ecosystem process responses to climate change using the response-to-effect trait framework
- 15:45 Elly Morriën:** From agriculture to species-rich grasslands: Land-use change leads to altered soil community assemblage and function
- 16:00 Garcia Palacios Pablo:** Crop traits drive global soil carbon sequestration under organic farming
- 16:15 Martina Lori:** Enhanced functional potential of protease encoding microbial communities in soils of organic compared to conventional farming systems under simulated future drought scenarios
- 16:30 Gerlinde De Deyn:** Organic soil management overrules litter quality as main driver of litter decomposition in agro-ecosystems
- 16:45 Pedro Martins da Silva:** Plant litter traits from different land-use systems affect soil fauna communities and the ensuing ecosystem processes
- 17:00 Katarina Hedlund:** Managing soil natural capital: An effective strategy for mitigating future agricultural risks?

S12: Conservation Science (Science to Inform Policy)

Location: Casinozaal 2
Chair: Nick Isaac

- 15:15 An Cliquet:** Towards a better protection of urban biodiversity
- 15:30 Tom Mason:** When are species at favourable conservation status? Developing improved favourable reference levels for UK breeding bird species distributions
- 15:45 Joachim Mergeay:** Implementing genetic criteria into the European Habitats Directive
- 16:00 Anna Turbelin:** Mapping the global state of invasive alien species: patterns of invasion and policy responses
- 16:15 David Rose:** The use of research in the UK Parliament: lessons for conservation scientists

ORAL PRESENTATIONS

Tuesday 12 December

- 16:30 Eleanor Slade:** Assessing the benefits of riparian reserves in oil palm landscapes: developing the science to inform environmental policy
- 16:45 Aletta Bonn:** Telecoupled provision and use of ecosystem services
- 17:00 Jonathan Silvertown:** Framing Brexit and biodiversity – Are we asking the right questions?

S13: Conservation Science (Populations & Diversity)

Location: Conceptstore
Chair: Christopher Baker

- 15:15 Erlend Nilsen:** Competing objectives and multiple uncertainties in the harvest management of willow ptarmigan on public land in Norway
- 15:30 Brigitte Braschler:** The effects of degree of urbanisation and forest size on the species diversity and functional diversity of vascular plants, ants and spiders
- 15:45 Maximilian Mühlbauer:** Characteristics of urban squares as a part of a city's green infrastructure and their influence on bird species richness and usage
- 16:00 Gergana Daskalova:** How does rarity influence population trends in the UK and across global biomes?
- 16:15 Jan Habel:** Vanishing of the commons: Empty habitats and the role of genetic diversity
- 16:30 Elizabeth Boakes:** Examining the relationship between local extinction risk and position in range using the avian order Galliformes as a case-study
- 16:45 András Zlinszky:** Using LIDAR for nationwide modelling of species diversity
- 17:00 Diana Bowler:** Bucking the trend: Exploiting the strengths of different data sources to assess the status of an endangered deer in Southeast Asia
- Jimmy Garnier:** Influence of dispersal processes on the global dynamics of Emperor penguin, a species threatened by climate change
- Theresa Spatz:** Movement patterns of Red Kites (*Milvus milvus*) in relation to land use and wind turbines on different spatial scales
- Yoshihiro Akiyama:** Microalgal community detected in fecal pellets of the endangered freshwater pearl mussel *Margaritifera laevis* (Bivalvia, Margaritiferidae) in a ditch of Japan: an approach to clarify mussels' diets in the field

Louise Lehmann: Fen restoration: the effect of disturbance on biodiversity along gradients of soil moisture and fertility

Joe Gray: The impact of partial overstorey removal on insect and arachnid diversity in temperate and boreal forests: A systematic review and meta-analysis

Jessica Finan: A spatial econometric model of land use change and bumblebee diversity in Scotland

Samantha Dawson: Fungi, functional traits and forestry; how land use intensity changes fungal communities

S14: Community Ecology (Habitat & environment)

Location: Jan Van Eyckzaal
Chair: Roel van Klink

- 15:15 Jelena Bujan:** Impact of biogeochemistry on ant activity, diversity and physiology
- 15:30 Laia Mestre:** Both woody and herbaceous semi-natural habitats are essential for spider overwintering in European farmland
- 15:45 Xiaojuan Liu:** Integrating intraspecific variation into the functional trait pattern shifting along the elevational gradients
- 16:00 Sylvie Clappe:** Phylogenetic and spatial scaling of trait-mediated environmental filtering
- 16:15 Kathy Denning:** Butterflies and bees respond to site-scale floral resources and landscape-scale land use, but not land use history, in Kansas (USA) tallgrass prairies
- 16:30 Anne Mimet:** Relative importance of the land-use composition and intensity for the bird community composition in anthropogenic landscapes
- 16:45 James Waggitt:** Patterns in top-predator diversity: taxa-specific responses to environmental gradients in the north-east Atlantic Ocean
- 17:00 Alan Law:** Does being rich make you richer? Area and species richness as indicators of freshwater habitat quality
- Michael Meyer:** Influence of temporal diversification on invertebrate communities in a long-term crop-rotation experiment
- Marie Konecna:** Anthills as habitat islands in a sea of temperate pasture

ORAL PRESENTATIONS

Tuesday 12 December

Martin Libra: Predation and parasitism risk to caterpillars along altitudinal gradient in a tropical rainforest

Arlena Dumeier: Active relocation of freshwater macrozoobenthos

Aleš Lisner: Piper climbers prefer large rare trees in a lowland tropical rain forest (in New Guinea)

Michael Crawford: Root herbivory mediates grassland succession after intense disturbances, insights from a mechanistic individual-based model

Eva Švambergová: The legacy of sowing after 20 years long colonisation of ex-arable land

Diego Balestrin: Phytosociological study in a mined area to define restoration measures, Minas Gerais-Brazil

S15: Ecosystem & Functional Ecology (Disturbance & Environmental Change)

Location: Hubert van Eyck
Chair: Michael Bahn

- 15:15 David Burslem:** Expression of plant functional traits across independent gradients of logging disturbance and soil fertility in Bornean tropical forests
- 15:30 Crystal McMichael:** Ancient human disturbances may be skewing our understanding of Amazonian ecology
- 15:45 Hans De Kroon:** High resistance to extreme rainfall events is independent of plant species richness in experimental grassland communities
- 16:00 Jitka Klimesova:** Plant traits along disturbance and productivity gradients in a temperate flora
- 16:15 Gaëtane Le Provost:** Legacy effect of land use intensification on grassland multitrophic trait diversity
- 16:30 Ian Thornhill:** The functional resilience of ponds along land-use intensity and environmental gradients
- 16:45 Selamawit Chawaka:** Using macroinvertebrates and birds to assess environmental disturbance of wetlands across different climatic zones in Ethiopia
- 17:00 Joachim Schrautzer:** Light in the darkness: can we predict how plants react to changing light conditions under alternative nutrient scenarios?
- Ryosuke Nakamura:** How does logging influence biogeochemical silicon cycling in lowland tropical forests in Borneo?

Laura Allen: Orchid bee responses to human disturbance in a tropical forest are best detected using abundance and community redundancy

Nada Nikolic: Modelling the long-term carbon balance of tropical lowland bryophytes: presentation of the model and first outputs

Kateřina Jandová: Horizontal and vertical spatial variability in soil nutrients as a result of wood ants' activity

Nobuhiko Suminokura: Responses of ecosystem carbon flux to long-term experimental warming in a cool temperate grassland in Japan.

Rosanne Broyd: Investigating the influence of snow cover on carbon stocks in oceanic-alpine ecosystems: microbial biomass and basal respiration in snowbed and non-snowbed habitats

Verena Rösch: Does spray drift from orchards and habitat size influence leafhoppers on reed meadows in the pre-Alps?

Jean Willy Nduwimana: Metabolites changes in Rice (9Y6H and 5ARX49) with nitrogen fertilizer and pest (*Nilaparvata lugens*) damage

S16: Ecosystem & Functional Ecology (Diversity & Function I)

Location: Van der Goeszaal
Chair: Julia Koricheva

- 15:15 Sandra Lavorel:** Trait-based modelling of grassland ecosystem service bundles for the Ecrins National Park (France)
- 15:30 Paul Kardol:** Long term impacts of plant species loss on community biomass and stability depend on environmental context
- 15:45 Ivan Nijs:** Effects of species evenness can be derived from species richness – ecosystem functioning relationships
- 16:00 Noémie Pichon:** The PaNDiv Experiment: individual and interactive effects of diversity, functional composition and nitrogen on grassland ecosystem functioning
- 16:15 Claudia Guimaraes-Steinicke:** Temporal changes of biodiversity effects on grassland productivity over two growing seasons using laser scanning
- 16:30 Matthias Dehling:** A new approach to functional diversity facilitates the assessment of species' functional roles and their contribution to ecological processes

ORAL PRESENTATIONS

Tuesday 12 December

16:45 Joseph Tobias: Convergent evolution connects form to function in the world's birds

17:00 Peter Manning: Multiple facets of biodiversity drive the diversity-stability relationship

Althea Davies: Dung-loving fungal spores as a proxy for herbivore impacts on peatlands

Jonathan Von Oppen: Tea Time On the Summits: Belowground processes rather than temperature determine alpine leaf litter decomposition

Elisa Van Cleemput: Plant functional types vs. optical types: Do spectral clusters of herbaceous species capture functional trait variation?

Tobias Proß: The application of near-infrared field spectroscopy as a method of fast and detailed analysis of leaf traits

Asahi Honda: Seasonal variations in root exudation in two tree species in a warm temperate forest, in Japan

Wouter Van Landuyt: Influence of dead wood on bryophyte and lichen diversity in two forest reserves in Flanders

Anna-Lena Rau: Temporal dynamics of ecosystem services – a quantitative review

Tamara Ayoub: Drooling Plants? – Pavlovian conditioning in the sensitive plant *Mimosa pudica*

S17: Global Change Ecology (Land-use & Management)

Location: Van Rysselberghezaal

Chair: Craig Eric Simpkins

15:15 William Gosling: Fire regime shifts instigates ecosystem change on islands

15:30 Michael Perring: Environmental change effects on plant community composition trajectories depend upon management legacies

15:45 Shiyu Ma: The effects of land-use history, home-away distance and the soil community on the recruitment of forest understorey species

16:00 Christian Hof: Biodiversity in a 1.5°C warmer world: interacting effects between climate and land-use change

16:15 Esra Sohlström: Quantifying the interactive effects of climate change and land-use intensification on invertebrate communities

16:30 Helen Phillips: Global diversity of earthworms and potential changes under future climate and land use projections

16:45 Tim Newbold: Future effects of land-use and climate change on global terrestrial vertebrate biodiversity

17:00 Rachel Pateman: Altering land management could buffer upland bird populations against the negative impacts of climate change

Kathryn Logan: Environmental impacts of replacing conventionally fuelled vehicles with electric vehicles in Scotland: A university case study

Susannah Fleiss: Sustainable oil palm in the 21st century

Amy Molotoks: Impacts of future global cropland expansion on biodiversity and carbon storage under SSP scenarios

Marie Matoušková: The coppice of *Quercus petraea* is less affected by water stress than high forest stand

Vinicius Reis: Extinction risk and life history traits in mammals in different scenarios of habitat loss

Isobel Bramer: Recommendations for monitoring, modelling, and managing microclimates

S18: Evolutionary Ecology (Adaptation & Stress)

Location: Bauwenszaal

Chair: Etienne Low-Décarie

15:15 David Costantini: Oxidative status markers are significantly associated with physical restraint, environmental conditions and life-history traits in the cheetah (*Acinonyx jubatus*)

15:30 Beate Apfelbeck: Stress hormones, telomeres and life history: a comparison between Afrotropical and temperate European stonechats

15:45 Marjo Saastamoinen: Coping with environmental stress in wild populations

16:00 C.-Elisa Schaum: Into the wild – linking seasonal variability in thermal adaptation, and metabolic theory of ecology in aquatic phytoplankton

ORAL PRESENTATIONS

Tuesday 12 December

- 16:15 Aleksandra Walczyńska:** The effect of hypoxia on body size and specific dynamic action, an approximation of aerobic scope, of the clones of *Lecane inermis* rotifer
- 16:30 Stewart Plaistow:** Egg development plasticity and the transmission of maternal effects in *Daphnia*
- 16:45 C. Jessica Metcalf:** Demographically framing trade-offs between sensitivity and specificity illuminates selection on immunity
- 17:00 Adrien Perrard:** How did wasps come to walk through walls? Repeated evolution of a morpho-functional system to hunt deeply concealed hosts in Cryptine wasps (Hymenoptera: Ichneumonidae: Cryptini)
- Jonathan Goldenberg:** To heat fast or to cool fast: the vipers (Viperidae Oppel, 1811) dilemma
- Charlotte Sieger:** Evolutionary strategies for coping with environmental variability and change
- Frida Johannesdottir:** Morphological adaptations of the American red squirrel to temperature across its wide geographic range
- Shira Houwenhuysse:** The *Daphnia* microbiome: what is core, what is flexible?
- Thilina De Silva:** Evolution of polygyny in true weavers (Subfamily Ploceinae)
- Swastika Issar:** Resource use and population divergence in burying beetles
- Abigail Motley:** Origin and diversification of the Malagasy spiny thicket biome
- Niek Scheepens:** GrENE-net – a global evolution experiment

S19: Soil Ecology & Plant-soil Interactions (Element cycling & Decomposition)

Location: Baekelandzaal 1
Chair: Jasper Wubs

- 15:15 Bridget Emmett:** The role of coupled macronutrient cycles for ecosystem service supply at the landscape scale
- 15:30 Mark Hodson:** Nitrogen pools and fluxes in soil under contrasting management systems
- 15:45 Nadia Maaroufi:** Anthropogenic nitrogen deposition effects on boreal litter decomposition are driven by changes in soil microbiota rather than litter quality

- 16:00 Andes Rozak:** Logging intensity, litter, and slope drive soil organic carbon variability in Dipterocarp logged forests
- 16:15 Deirdre Kerdraon:** From forest to oil palms: the effect of forest modification on soil carbon dynamics in Sabah, Borneo
- 16:30 Olga Ferlian:** Effects of an exotic soil ecosystem engineer on soil biogeochemical characteristics: a meta-analysis
- 16:45 Oyindamola Jackson:** Rhizosphere carbon supply determines the magnitude of soil organic matter decomposition
- 17:00 Frida Keuper:** Launching the PrimeScale model: including the rhizosphere priming effect in spatial and depth explicit carbon loss estimate
- Mitsutoshi Tomotsune:** Response of soil respiration to biochar addition during three years in a secondary warm-temperate deciduous forest, Japan
- Shingo Masuda:** Effects of biochar application on fine root dynamics in a *Quercus serrata* forest
- Radim Sarlej:** Soil pH effect on interactive controls of soil carbon sequestration in an extensively managed northern temperate grassland
- James Edgerley:** Direct and indirect effects of drought and warming on decomposition processes in an upland grassland in the UK
- Emily Schofield:** Timing is everything? The influence of intraspecific competition on the temporal dynamics of soil microbial community priming, nitrogen uptake and biomass accumulation
- Fiona Seaton:** Soil water repellency as a strategy for ecosystem resilience
- Ilka Schmoock:** Indicating resilience and sustainability in arable soil systems across Europe: Response of the soil microbial biomass to tillage reductions in five European countries
- Alejandra Hernández Guzmán:** Soil heterogeneity under an array of tree cover in rangelands in the buffer zone of a Biosphere Reserve in southern Mexico

ORAL PRESENTATIONS

Tuesday 12 December

S20: Ecological Genetics or Molecular Ecology (Populations, Species & Interactions)

Location: Baekelandzaal 2
Chair: Cristina García

- 15:15 Harald Meimberg:** Next generation sequencing of microsatellite markers (SSR-GBS), a new approach for genotyping applied to populations of white-breasted and European hedgehog
- 15:30 Laura Epp:** Tracing Siberian treeline history with sedimentary ancient DNA: plant metabarcoding and haplotype analyses of *Larix* species
- 15:45 Simon Creer:** Assessing grass pollen biodiversity in time and space using aerial eDNA metabarcoding
- 16:00 Katrin Heer:** Linking dendroecology and association genetics in forest trees
- 16:15 Mathew Seymour:** Detecting freshwater diversity across environmental gradients using eDNA: implications for biodiversity assessment
- 16:30 Michelle DiLeo:** Landscape permeability predicts the distribution of a dispersal polymorphism during population expansion in a butterfly metapopulation
- 16:45 Julia Tiede:** Multitrophic interactions in a plant diversity experiment analyzed by gut content metabarcoding
- 17:00 Frederik Hendrickx:** Genomic signatures of heavy metal tolerance in the soil arthropod *Orchesella cincta*
- Ellen Pagel:** Keeping genetic diversity in European grasslands for the future – What is the impact of historical land use?
- Ryan Edge:** Genetic diversity of plants in differently aged restored saltmarshes
- Matthew Greenwell:** Butterfly genetics monitoring scheme: 2020 pilot study
- Ryo Ashidate:** Genetic structure analysis of Amami rabbit (*Pentalagus furnessi*) in Amami-Oshima Island based on a landscape genetics tool
- Saka Yoshikawa:** The Hypothetical Scenario of the Genetic Origin of Ryukyu Wild Boars (*Sus scrofa riukiuanus*) based on Two Mitochondrial and 23 Nuclear Markers

S21: Species Interactions (Foodwebs & Trophic Interactions)

Location: Baekelandzaal 3
Chair: Gregor Kalinkat

- 15:15 Susanne Fritz:** Mammalian diversity over twenty million years: dynamics of different trophic levels and the effects of primary productivity
- 15:30 Gérard Lacroix:** Neglected non-trophic interactions may alter the issue of trophic cascades
- 15:45 Bo Dalsgaard:** Trait evolution, resource specialisation and vulnerability to plant extinctions among hummingbirds on Antillean islands
- 16:00 Michelle Nordkvist:** Indirect interactions between herbivores: moose browsing increases performance of the European pine sawfly through plant responses
- 16:15 Alix Sauve:** Landscape scale food webs: how separated habitats are?
- 16:30 Thomas Parmentier:** Contrasting indirect effects of an ant host on trophic interactions of associated arthropods
- 16:45 Michael Staab:** Standardized habitat monitoring using cavity-nesting bees, wasps and their trophic interactions – a systematic review
- 17:00 Colette Bertrand:** Spatio-temporal pollen resources use by key insect pollinators and predators in European agricultural landscapes
- Andrin Dürst:** Another one bites the leaf: Heterophylly of Mascarene plants as an adaptation to giant tortoise herbivory
- Kate Maia:** The effect of generalisation and of interaction outcomes on the robustness of plant-insect assemblages: contrasting and merging pollination and herbivory networks
- Vincent Zaninotto:** Urban impacts on the phenology of plant-pollinator interactions
- Abby Gilson:** The role of detrital pathways in coastal food webs
- Caroline Raymond:** Succession in presence of the invasive polychaete *Marenzelleria* spp. compared to the native clam *Macoma balthica* in the Baltic Sea

ORAL PRESENTATIONS

Tuesday 12 December

S22: Microbial Ecology

Location: Guislainzaal 1

Chair: Sina Adl

- 15:15 Kelly Ramirez:** Detecting ecological patterns in microbial communities using a novel machine learning approach
- 15:30 Bjorn Tytgat:** Bacterial and eukaryotic biodiversity patterns in the Sør Rondane Mountains, Dronning Maud Land, East Antarctica
- 15:45 Kezia Goldmann:** Scale-dependencies of soil fungal communities in forest and grassland ecosystems across Germany
- 16:00 Naili Zhang:** Tree richness effects on litter fungal assemblages and enzymatic degradation
- 16:15 Karen Wuyts:** Leaf bacterial community structure and diversity in urban environments
- 16:30 Martin Zwanzig:** Plasmid diversity induces the evolution of non-transitive dynamics in microbial systems
- 16:45 Etienne Low-Decarie:** Extremophiles in benign environments: insights into the distribution and function of microorganisms
- 17:00 Sarah Knowles:** Evolutionary and environmental forces shaping the gut microbiota of small mammals
- John Thomas:** Mycorrhizal diversity in the tropical rainforest: Interactions between above and below ground diversity driven by phosphorus partitioning
- Luis Prada-Salcedo:** How does the link between tree species richness, diversity and functional composition of soil microbial communities impact multi-functionality of different types of European forest ecosystems
- Francesca Baylis:** Producing better sports turf through soil microbial management
- Thomas Smith:** Metabolic rates may inevitably rise with global warming among prokaryotic microbes
- Adrienne Kerley:** Evolution of stickleback microbiomes during repeated colonisations of lake and river habitats
- Sarah Walkington:** Environmental impacts on the development of caste-specific gut microbiota in bumblebees
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ORAL PRESENTATIONS

Wednesday 13 December

TT5: Using Species Traits to Understand the Structure and Function of Interaction Networks

Location: Auditorium

Chairs: Darren Giling & Andrew Barnes

- 11:00 Dominique Gravel:** Trophic mediated effects of functional traits on the biodiversity-ecosystem functioning relationship
- 11:30 Camille Coux:** Linking species functional roles to their network roles
- 11:45 Darren Giling:** Trait diversity in the core-periphery structure of food webs is modified by species richness
- 12:00 Kate Wootton:** Microhabitat use, mesocosms and models in multitrophic communities; using traits to predict community dynamics
- 12:15 Michelle Jackson:** Food web responses to warming in freshwater ecosystems
- 12:30 Andrew Barnes:** Exploring response-effect trait covariance in food webs to understand variation in multitrophic ecosystem functioning
- 12:45 Ignasi Bartomeus:** Decomposing the quantity and quality components of trait matching in plant-pollinator networks.

TT6: The Ecology-physiology-life-history Nexus: Integrating Ecophysiology in Evolving Life History Syndromes

Location: Casinozaal 1

Chairs: Robby Stoks, Manuela Truebano & Wilco C.E.P. Verberk

- 11:00 Enrico Rezende:** Size-dependency of dealing with global warming: is smaller really better when things get hot?
- 11:30 Jacintha Ellers:** Can we use ecophysiological traits to understand impacts of climate change on ecological communities?
- 11:45 Wilco Verberk:** Universal metabolic constraints shape the evolutionary ecology of diving in ectotherms and endotherms
- 12:00 Lloyd Peck:** Adaptations of Antarctic marine ectotherms
- 12:15 Sonya Auer:** Metabolic rate evolves rapidly and in parallel with the life history

- 12:30 John Spicer:** Does altering the timing of physiological development have fitness consequences? Lessons from hypoxic aquatic invertebrates
- 12:45 Michael Berenbrink:** Do life-histories dictate properties of respiratory pigments or vice versa?

S23: Conservation Science (Reintroductions, Restoration & Rewilding)

Location: Casinozaal 2

Chair: Johannes Kollmann

- 11:00 Eric Higgs:** Novel and designed ecosystems: implications for conservation and ecological restoration
- 11:15 Vicky Temperton:** Exploring priority effects in grassland experiments in order to inform ecological restoration
- 11:30 Andreas Schweiger:** Remembering the past when planning a wilder future: A theoretical framework for trophic rewilding
- 11:45 Andrea Perino:** Restore function not state: Rewilding of complex ecosystems
- 12:00 Keith Kirby:** What can minimum intervention woodland reserves contribute to rewilding discussions?
- 12:15 Rudy Diggelen:** Abiotic factors, microbes, bugs and plants: what do they contribute to heathland restoration?
- 12:30 Sabine Tischew:** Drastic site-preparation is key to long-term reintroduction success of the highly endangered xeric grassland species *Jurinea cyanoides*
- 12:45 Jim Harris:** Principles and standards in determining effective restoration

S24: Species Interactions (Herbivory, Predation or Seed Dispersal)

Location: Conceptstore

Chair: Callum Macgregor

- 11:00 Daniel García:** Complementarity in frugivore-plant networks enhances landscape-scale seed dispersal service
- 11:15 Marjorie Sorensen:** Linking interaction networks and movement ecology: estimating community seed dispersal
- 11:30 Natalie Levine:** Does the investment always pay off? The effect of plant reward on seed dispersal by ants

ORAL PRESENTATIONS

Wednesday 13 December

- 11:45 Barbora Lepková:** Seed dispersal by deer – realized effect on plant communities
- 12:00 Martijn Vandegehuchte:** Mammalian herbivores affect leafhoppers associated with specific plant functional types at different timescales
- 12:15 Sebastian Meyer:** Land-use components, abundance of predatory arthropods, and vegetation height affect predation rates in grasslands
- 12:30 Benjamin Fuchs:** Herbivore specific plant defense accomplished by a systemic grass endophyte
- 12:45 Foteini Pashalidou:** Early herbivore alert matters: plant-mediated effects of egg deposition on higher trophic levels benefit plant fitness

S25: Community Ecology (Environmental Change)

Location: Jan Van Eyckzaal
Chair: David Burslem

- 11:00 Robert Junker:** Microclimatic heterogeneity may reduce sensitivity of alpine plant communities and their pollinators towards climate warming
- 11:15 Edith Villa-Galaviz:** Bottom-up effects of eutrophication on insect food webs
- 11:30 Maximiliane Herberich:** Density-dependent dynamics in plant communities deviate from simple rules due to age structure, multiple species and abiotic stress
- 11:45 Pavel Kratina:** Warming can disrupt plastic phenotypic responses to predation
- 12:00 Marcin Penk:** Soil nutrients disassociated from floodwaters and a key predictor of vegetation community in Irish saltmarshes
- 12:15 Viktoriia Radchuk:** Disturbance increases the dimensionality of ecological stability when measured at the community, but not population level
- 12:30 Deirdre McClean:** Cascading effects of parasites shape the responses of communities to disturbance
- 12:45 Joel Trexler:** Identifying thresholds in fish community dynamics and composition in response to altered hydroperiods and biological invasion

S26: Ecosystem & Functional Ecology (Biogeochemical Cycles)

Location: Hubert van Eyck
Chair: Amy Austin

- 11:00 Amy Austin:** Photodegradation is a dominant control of aboveground carbon turnover in terrestrial ecosystems
- 11:15 Christian Körner:** Is alpine grassland carbon limited?
- 11:30 Laëtitia Bréchet:** Towards a better understanding of soil-atmospheric exchanges of CO₂, CH₄, and N₂O in tropical rainforest, in French Guiana
- 11:45 Markus Lange:** Dissolved organic carbon as mediator of plant diversity effects on belowground processes
- 12:00 Kelly Andersen:** Multiple nutrients limit forest carbon fluxes in a large-scale nutrient manipulation experiment in Central Amazonia
- 12:15 Israel Oren:** Coupling of the canopy and the root system through carbon dynamics in the tropical tree species *Ceiba pentandra* and *Khaya anthotheca*, as evidenced by direct measurements in an aeroponics facility.
- 12:30 Judith Sitters:** The positive impact of herbivores on soil nitrogen increases with temperature in grasslands worldwide
- 12:45 Mojmir Vasek:** Stable isotope composition of archived fish scales tracks long-term changes in ecosystem carbon cycling: a 38-year study in a temperate reservoir and its catchment

S27: Evolutionary Ecology (Patterns & Principles)

Location: Van der Goeszaal
Chair: Lise Aubry

- 11:00 Matt Davis:** Can mammals evolve fast enough to beat the sixth mass extinction?
- 11:15 Victor Ostrovskii:** Solar events as the cause of the Earth species mass extinctions and of future insecurities in the context of the PFO-CFO Theory of Solar System Formation and Transformation
- 11:30 Gabriella Leighton:** Just Google it: assessing the use of Google Images to describe geographical variation in visible traits of organisms
- 11:45 Ruben Milla:** Macroevolutionary patterns of plant and animal domestication: crops and livestock species in the context of global ecological diversity

ORAL PRESENTATIONS

Wednesday 13 December

- 12:00 Aureore Picot:** The evolution of agriculture and specialization in a three-species module
- 12:15 David Murrell:** A global envelope test to detect early and late bursts of trait evolution: Disparity through time analyses without multiple testing
- 12:30 Coline Jaworski:** Hybrid *de novo* genome assemblies as a solution for non-model organisms: reduced cost but not quality – Validation using a cactophilic *Drosophila*
- 12:45 Richard Shefferson:** Global drivers of vegetative dormancy: the roles of life history, environment, and evolutionary history

S28: Global Change Ecology (Carbon & Nutrients)

Location: Van Rysselberghezaal
Chair: Malte Jochum

- 11:00 Michael Bahn:** Does drought legacy alter the recovery of grassland carbon dynamics from drought?
- 11:15 Sabine Reinsch:** Upland soil carbon stocks are more vulnerable to drought than to warming
- 11:30 Mohammed A. S. Arfin Khan:** Water limitation in a mesic grassland: Heavy rain spells have clearer impacts than drought on nutrient cycling, primary production and biotic interactions
- 11:45 Laura Rose:** African savannah trees and grasses differ in their physiological response to water and nutrient addition
- 12:00 Alan Jones:** The impacts of drought and altered precipitation patterns on forest organic carbon stores: implications for experimental research
- 12:15 Rachael Treharne:** Arctic browning and carbon balance: impacts of vegetation mortality and stress following winter extreme climatic events
- 12:30 Arthur Broadbent:** Dominant non-native and native plant leaf traits respond similarly to nutrient additions in grasslands worldwide
- 12:45 Erika Hiltbrunner:** Current atmospheric nitrogen deposition likely to change alpine plant communities

S29: Population Ecology (Dispersal or Distributions)

Location: Bauwenszaal
Chair: Casper van Leeuwen

- 11:00 James Bullock:** Novel approaches to predicting plant species' movement under climate change

- 11:15 Milica Lakovic:** Time investment into information acquisition and emigration
- 11:30 Jacques Deere:** The effect of distinct dispersal life-histories in population models
- 11:45 Verónica Méndez:** Linking migration strategy, breeding phenology and fitness consequences in a partial migrant system
- 12:00 Pallieter De Smedt:** Cope or retreat: Desiccation resistance determines distribution patterns of woodlice along forest edge-to-interior gradients
- 12:15 Laura Williamson:** Comparing the distribution of harbour porpoise using GAMs and hierarchical Bayesian models using INLA: insights into overall distribution vs. foraging detections
- 12:30 Steve Palmer:** How does group dispersal influence genetic relatedness in an expanding population?
- 12:45 Danny Hoofman:** Of rabbits and men: drivers of meta-population dynamics of wild cabbage

S30: Soil Ecology & Plant-soil Interactions (Microbial communities)

Location: Baekelandzaal 1
Chair: Sandra Varga

- 11:00 Sina Adl:** Impact of bacterivory by protists on root nutrient availability
- 11:15 Anne Cotton:** Linking root chemistry to rhizosphere microbial communities: the impact of benzoxazinoid biosynthesis genes
- 11:30 Ralph Menzel:** The missing link – Nematodes as important source for long-chain fatty acids in the soil food web
- 11:45 Ricardo Schöps:** Land-use intensity shapes bacterial and fungal rhizosphere communities more than the functional identity of plants
- 12:00 Jocelyn Lavalley:** Land use modifies the resistance and resilience of grassland soil food webs to summer drought: a cross-site study
- 12:15 Franca Marian:** Moderate nutrient input (N, P) influences the decomposer community structure in tropical montane rainforests in Ecuador
- 12:30 Alice Johnston:** Soil community functional traits determine the temperature sensitivity of soil respiration across biomes
- 12:45 Francois Buscot:** Can we integrate the hologenome theory in biodiversity research?

ORAL PRESENTATIONS

Wednesday 13 December

S31: People & Nature (Ecosystem Services)

Location: Baekelandzaal 2
Chair: Jonathan Silvertown

- 11:00 **Caroline Howe:** Evolution in framing ecosystem services for human well-being
- 11:15 **Lukas Egarter Vigl:** Using machine-learning algorithms on social media data in cultural ecosystem service assessment
- 11:30 **Eleanor Tew:** Capturing cultural ecosystem services – a new method of incorporating cultural values into land management decisions
- 11:45 **Peter Long:** Naturetrade: creating a marketplace for ecosystem services
- 12:00 **Francesca Mancini:** “Big Data” for quantifying recreational ecosystem services and characterising people’s connection to nature
- 12:15 **Valentin Klaus:** People’s attitude towards urban green space: do they prioritise nature or human needs?
- 12:30 **Wouter Van Reeth:** Forest expansion in Flanders: Integrating values for assessing land use change scenarios
- 12:45 **Emilie Crouzat:** Iconic species and outdoor recreation practises: finding enough space for everyone in protected areas

S32: Theoretical or Computational Ecology (Patterns & Scales)

Location: Baekelandzaal 3
Chair: Miriam Grace

- 11:00 **Franziska Taubert:** High-resolution analysis of large-scale forest fragmentation patterns across three tropical continents
- 11:15 **Fabian Fischer:** To see the wood and the trees: Integrating individual-based modelling and remote sensing data for ecological inference about tropical rainforests
- 11:30 **Jessica Hetzer:** An analysis of forest biomass sampling strategies on landscape and pantropical scale
- 11:45 **Rico Fischer:** Remote Sensing Measurements of Forest Structure Types
- 12:00 **Yuuya Tachiki:** A spatially explicit model for the evolution of rhizome system in bamboos
- 12:15 **Remo Ryser:** Networks on networks: How spatial networks influence food web architecture

- 12:30 **Krishnapriya Tamma:** Inferring critical points of ecosystem transitions from spatial data
- 12:45 **Craig Simpkins:** Time changes everything: impacts of temporal variability on estimates of landscape connectivity

S33: Invasive Species (Interactions, Networks & Communities)

Location: Guislainzaal 1
Chair: Ingolf Kühn

- 11:00 **Nessa O'Connor:** Competition between invasive and native consumers differs between habitats and shifts in their isotopic niches reveal mechanisms for species coexistence
- 11:15 **Edwin Peeters:** Pumpkinseed sunfish affect macroinvertebrate community composition in fens
- 11:30 **Ruth Mitchell:** Seed limitation, not soil legacy effects, prevents native understorey plant species from establishing following the removal of invasive *Rhododendron ponticum*
- 11:45 **Luca Gaggini:** The invasive plant *Impatiens glandulifera* affects soil fungal diversity and the bacterial community in forests
- 12:00 **Andrea Bueno:** Native vs. invasive trees – effects of drought on the competition for nitrogen
- 12:15 **Daniel Mills:** Investigating changes to invertebrate community structure in a UK river following colonisation by invasive quagga mussel (*Dreissena rostriformis bugensis*)
- 12:30 **Carol Frost:** Invasion by the little fire ant (*Wasmannia auropunctata*) changes biodiversity and ecosystem functioning in the rainforest of New Caledonia
- 12:45 **Peter Brown:** Changes in ladybird communities induced by the invasive harlequin ladybird *Harmonia axyridis*: evidence from a long term field study

TT7: Linking Functional Diversity of Terrestrial and Marine Primary Producers – The Potential of Remote Sensing

Location: Auditorium
Chairs: Franziska Schrodtt & Shovonlal Roy

- 15:00 **Giles Foody:** Remote sensing of biodiversity
- 15:30 **Hannes Feilhauer:** Remotely sensed optical traits for vegetation monitoring

ORAL PRESENTATIONS

Wednesday 13 December

- 15:45 **Fabian Schneider:** Remote sensing of functional diversity using morphological and physiological forest traits
- 16:00 **Anna Schweiger:** From leaf level spectra to spectral diversity of plant communities and ecosystem function – How can we scale up to the landscape level?
- 16:15 **Franziska Schrodtt:** Remote sensing of terrestrial ecosystem function
- 16:30 **Shovonlal Roy:** Remote sensing the dynamics, bio-diversity, size classes and functional types of marine plankton communities
- 16:45: Discussion

TT8: Rewilding as a Contemporary Conservation Strategy

Location: Casinozaal 1
Chair: Liesbeth Bakker

- 15:00 **Jens-Christian Svenning:** Broad-scale, long-term perspectives on trophic rewilding
- 15:30 **Ine Dorresteijn:** Human-carnivore coexistence in cultural landscapes
- 15:45 **Koen Arts:** Rewilding through animal reintroduction: Conceptual considerations
- 16:00 **Meredith Root-Bernstein:** Unexpected ecological effects of a reintroduced species (*Lama guanicoe*)
- 16:15 **Chris Smit:** Rewilding with large herbivores: impacts on biodiversity
- 16:30 **Ciska Veen:** Rewilding with large herbivores: impact on carbon and nitrogen cycling
- 16:45 **Jamie Lorimer:** Rewilding in Europe: who decides and through what processes?

S34: Conservation Science (Indicators, Priorities, Planning & Protection)

Location: Casinozaal 2
Chair: Kirsty Park

- 15:00 **Miriam Grace:** Marine hotspot locations are affected by diversity metrics and functional groups
- 15:15 **Christopher Wheatley:** Spatial prioritization for Europe – continental vs national scale approaches for conservation
- 15:30 **Sabine Fink:** Barriers and changing climate affect conservation planning for riparian plant species

- 15:45 **Stuart Robertson:** Integrating Evolution into Spatial Conservation Planning
- 16:00 **Emma Critchley:** Do Marine Protected Areas adequately cover seabird distributions at sea? A case study using projected at-sea distributions
- 16:15 **Klaus Ecker:** Are mean plant indicator values sensitive to incomplete plant censuses?
- 16:30 **Roman Bucher:** Do breeding birds indicate biodiversity at lower trophic levels?
- 16:45 **Valentina Marconi:** The Canadian Species Index: coverage and development of a national biodiversity indicator

David Eichenberg: sMon- Analyzing trends of species data in Germany

Andrea Büermann: Natural and cultural heritage of ecosystem services: Assessing long-term changes in protected areas

Sophus Zu Ermgassen: The impact of moorland rewilding on provisioning, pollination, and aesthetic services – evidence from a chronosequence in the Scottish Highlands

Sara Alfino: Exploring identification uncertainty: the impact of 'look-alike' species on the trade in Madagascar's chameleons

Naveed Bhatti: Developing monitoring tools for data-deficient conservation-priority lichen species

Marijke Thoonen: Building a knowledge network for invasive knotweed control in Flanders

Jatishwor Irungbam: Monitoring and Conservation initiative of Butterflies and People's Perception towards Butterfly Conservation in Manipur, India

Susan Jarvis: How much bog is there in Britain?

Ulrich Graf: Effects of restoration measures on bog vegetation

S35: Agricultural Science (Diversity, Function & Ecosystem Services)

Location: Conceptstore
Chair: Peter Manning

- 15:00 **Christoph Scherber:** Mind the gap: Biodiversity experiments meet agricultural practice
- 15:15 **Christina Fischer:** Ecosystem services vs. disservices provided by small rodents in arable fields at multiple spatial scales

ORAL PRESENTATIONS

Wednesday 13 December

- 15:30 Fabian Boetzel:** Agri-environmental schemes promote ground dwelling predators in adjacent oilseed rape fields: diversity, species traits and distance-decay functions
- 15:45 Armin Bischoff:** Effects of field margin vegetation on herbivore regulation: spontaneous flora versus wildflower strips
- 16:00 Sharon Zytynska:** Role of wildflower diversity and identity on aphids and their protective endosymbionts in a cereal crop system
- 16:15 Peter Batary:** The former iron curtain still drives biodiversity-profit trade-offs in German agriculture
- 16:30 Sophie Kratschmer:** Wild bee diversity and functional traits change with inter-row management intensity in vineyards across Europe
- 16:45 Marko Debeljak:** Taxonomic and functional diversity of Syrphidae species in agricultural landscape
- Svenja Bänsch:** Competition between minor and mass-flowering crops for social bees: consequences for adapted pollination management
- Matti Pisman:** Description of landscape composition around Flemish apple orchards and its value for wild bee diversity
- Michelle Larkin:** Results-Based Agri-Environmental Payment Schemes: Investigating the Impacts on Pollinator Diversity in Ireland.
- Odountan Ambaliou Olounlade:** Agroecological practices for sustainable agriculture in Benin
- Kathrin Pascher:** Quantifying biodiversity change in agricultural landscapes – the Austrian monitoring program BINATS
- Floris Dalemans:** A prediction model for the seed and oil yield of *Pongamia pinnata*
- Veronika Vikuk:** Infection frequencies and alkaloid content of systemic fungal grass endophytes along a land-use intensity gradient
- Anna Harper:** Different Intensities of Soil Cultivation Alter the Extended Phenotypes and Predator Dynamics of *Tenuiphantes tenuis*

S36: Community Ecology (Species & Trait Diversity)

Location: Jan Van Eyckzaal
Chair: Frank Jaunker

- 15:00 Julia Koricheva:** Effects of plant intraspecific diversity on arthropods: a meta-analysis
- 15:15 Scott MacIvor:** Functional and phylogenetic diversity – but not species richness – increases with urbanization in a wild bee community

- 15:30 Yuanyuan Huang:** Strong positive biodiversity–productivity relationships in a large-scale subtropical forest experiment
- 15:45 Yuxin Chen:** Impacts of non-random species extinction on productivity in a long-term subtropical forest biodiversity experiment
- 16:00 Andros Gianuca:** Niches, fitness and historical contingency: evolutionary distance counteracts the influence of trait similarity on priority effects
- 16:15 Ineke Roeling:** Grassland plants differ in phenotypic plasticity and trait strategy depending on their niche width and position along N:P gradients
- 16:30 Loïc Chalmandrier:** Calibrating mechanistic community models using functional traits
- 16:45 Katharina Gerstner:** Making biodiversity meta-analyses meaningful
- Olivia Bell:** Investigating the trophic ecology of Tasmanian predators
- Sam Perrin:** Predicting the effects of biological invasions on freshwater fish communities in the face of climate change
- Andrea Zanetta:** Change in invertebrate taxonomic and functional community composition along an urbanization gradient
- Cristina Bastias:** Species richness influences the spatial structure of European forests
- Francis Mumbanza:** Liana density and diversity across different stand types of a tropical forest of the Congo
- Gianluigi Ottaviani:** The emergence of plant modularity traits in functional and community ecology: challenges & opportunities
- Marco Moretti:** Handbook of protocols for standardized measurement of terrestrial invertebrate functional traits
- Ariel Bergamini:** Fauna Indicativa- a new tool for environmental monitoring

S37: Ecosystem & Functional Ecology (Ecosystem Structure & Function)

Location: Hubert van Eyck
Chair: Jitka Klimesova

- 15:00 Markus Fischer:** Direct and biodiversity-mediated effects of land use on ecosystem processes in grasslands and forests: insights from 10 years of research in the Biodiversity Exploratories

ORAL PRESENTATIONS

Wednesday 13 December

- 15:15 Malte Jochum:** Are the plant communities of biodiversity experiments representative of naturally assembled ecosystems?
- 15:30 Ramona Melliger:** Ecosystem functioning in cities: Combined effects of urbanisation and forest size on early-stage leaf litter decomposition of European beech (*Fagus sylvatica* L.)
- 15:45 Christina Smith-Martin:** Biomass allocation and rooting depth in tropical dry forest adult evergreen trees, deciduous tree, and lianas
- 16:00 Jan Leidinger:** Effects of forest management and tree species composition on insect herbivores in European forests
- 16:15 Irene Van Schroyen Lantman:** Forest composition effects on leaf herbivory overshadow tree diversity and forest edge effects
- 16:30 Vinicio Santillan:** Structural and functional diversity of tropical bird assemblages along land-use and elevational gradients
- 16:45 Manfred Türke:** The iDiv Ecotron: orthogonal biodiversity manipulation and ecosystem functioning
- Lindsay Banin:** Inter-specific and environmental variability in woody functional traits of tropical trees
- Stefan Trogisch:** Diversity and stand age increase carbon storage and fluxes in subtropical forests
- Glenda Mendieta-Leiva:** The minimum sampling needed for reliable estimates of epiphytic biomass in tropical montane cloud forests
- Sebastian Richter:** High-resolution monitoring of bud-burst in *Fagus sylvatica* with UAVs: a pilot study in the Nationalpark Kellerwald-Edersee (Hesse, Germany)
- Bojana Ivošević:** From air and from ground: modern photogrammetry and soil analysis in assessing factors influencing the biodiversity of pollinators (Diptera: Syrphidae)
- Cédrique Solofondranohatra:** Grass traits and species composition differentiate tapia woodlands from forest in Madagascar
- Maria Majekova:** Are stressed plants less symmetric? A multi-species approach

S38: Evolutionary Ecology (Dynamics & Environment)

Location: Van der Goeszaal
Chair: Steve Albon

- 15:00 Aurore Ponchon:** A new modelling framework to address the eco-evolutionary dynamics of prospecting strategies
- 15:15 Francois Massol:** Effects of cue reliability, environmental uncertainty and the life cycle on the evolution of emigration strategies
- 15:30 Staffan Jacob:** Habitat choice: evolution and eco-evolutionary consequences in ciliate microcosms
- 15:45 Gabrielle Ringot:** More and smaller resting-eggs along a metallic pollution gradient: dispersal, dormancy, detoxification strategies in *Daphnia*?
- 16:00 Eleanor Gibson-Forty:** Reproductive strategies, not pollinator activity, determine the reproductive success of crucifer species along a steep rainfall gradient
- 16:15 Monique De Jager:** Multi-scale seed dispersal: Optimizing search strategies for plants in fragmented environments
- 16:30 Michal Gruntman:** Should I stay or should I grow: decision-making in plants under competition
- 16:45 Ofir Katz:** Herbivory and resource cycling as drivers of plant evolution: Fossils, phylogeny and... silicon?
- Sara Tomiolo:** Does plant relatedness affect the outcome of intraspecific interactions in the annual legume *Medicago minima*?
- Carmen Villacañas de Castro:** Between antagonism and mutualism: how a natural enemy can shift the balance in the *Silene latifolia* – *Hadena bicruris* nursery pollination system.
- Jiao Qu:** Eco-evolutionary dynamics of plant-herbivore interactions in relation to urbanization
- Aura Raulo:** Co-variation of stress hormone profiles and gut microbial composition is linked to habitat quality in wild Siberian flying squirrels (*Pteromys volans*)
- Kseniia Kravchenko:** Changes in migratory status of bats revealed by stable isotopes.
- Stefano Masier:** How habitat fragmentation affects eco-evolutionary dynamics in *T-Urticae*
- Frederik Mortier:** Go where you please: how informed dispersal affects ecological specialization

ORAL PRESENTATIONS

Wednesday 13 December

Giannina Hattich: Experimentally decomposing total community change into evolutionary and ecological components

Jasmijn Hillaert: Optimal size distributions in spatially structured systems: linking metabolic theory with movement ecology

S39: Global Change Ecology (Adaptation, Resistance, Resilience)

Location: Van Rysselberghezaal
Chair: Sabine Reinsch

- 15:00 Britta Tietjen:** Squeezing and releasing: landscape heterogeneity mediates future plant population persistence in a Mediterranean-type ecosystem
- 15:15 Enric Batllori:** Mediterranean ecosystem resilience under compound regimes of fire and drought.
- 15:30 Guenter Hoch:** Cool feet – dry head! Drought stress in warm-adapted tree seedlings exposed to experimental root cooling
- 15:45 Zuzana Munzbergova:** Genetic and epigenetic differentiation and plasticity interact along temperature and precipitation gradients to determine plant performance under climate change
- 16:00 Korinna Allhoff:** Selective effects of temperature on body mass depend on trophic interactions and network position
- 16:15 Richard Walters:** Will climate warming ‘shrink’ body size? A reappraisal of the Temperature-Size Rule in ectotherms
- 16:30 Phillipa Gillingham:** Coupling of altered body size and growth rate with shifts in climate space in response to climate change in temperate cyprinid fishes
- 16:45 Camille Mellin:** Bright spots of coral resilience on the Great Barrier Reef
- Maaïke Bader:** Effects of warming and CO₂ fertilization on tropical lowland bryophytes: a rainforest field experiment
- Eric Guilbert:** Species distribution modelling in Madagascar: the response of several Insects group to global warming
- David Thomson:** The ecological impacts of climate change in hot regions
- Cleiton Eller:** Predicting amazon forest responses to El Niño droughts with a stomatal optimization model

Yolanda Caceres: Hotter and dryer: germination response to heat-shock and drought stress in two native mountain forest species of central Argentina

Jori Wefer: Modelling food webs under increasing temperatures and varying nutrient supplies – including new results on temperature-dependent nutrient uptake by plants

S40: Population Ecology (Demography or Life History)

Location: Bauwenszaal
Chair: Daniel Oro

- 15:00 Christina Bohk-Ewald:** Taylor's power law describes temporal variance in demographic rates
- 15:15 David Koons:** Understanding the demographic drivers of realized population growth rates
- 15:30 Maria Paniw:** A wide range of life histories across plants and animals are sensitive to temporal autocorrelation in demographic processes
- 15:45 Omar Lenzi:** Distribution of demographic buffering and demographic lability throughout the animal kingdom
- 16:00 Chloé Nater:** Individual heterogeneity and early life conditions shape growth in a freshwater top-predator with size-dependent mortality
- 16:15 Sharon Janssen:** The secrets of success of the European mistletoe (*Viscum album* subsp. *album*)
- 16:30 Lisa Hülsmann:** Advances and challenges in modeling tree mortality – What tree-ring and inventory data can contribute to forest projections
- 16:45 Rob Salguero-Gomez:** The future of open-access in population ecology (across borders)
- Simon Rolph:** A neutral model for plant demography: insights into the use of stage-based demographic models for quantifying the diversity of life history strategies
- Maude Baudraz:** Are plants demographic strategies more constricted at niche borders?
- Qingmin Han:** Trade-off between vegetative and reproductive growth at shoot, branch and individual levels in masting *Fagus crenata* trees
- Nahaa Alotaibi:** *Zostera marina* in the Isles of Scilly: Linking demography, dynamics and population genetics across space and time
- Carolina Carvalho:** Genetic consequences of seed dispersal in a heterogeneous environment mediated by defaunation of large frugivores

ORAL PRESENTATIONS

Thursday 14 December

Sonja Loetscher: Environmental and anthropogenic determinants of the structure of Alpine marmot family groups

Merle Bollen: Bottleneck effects on gene drive propagation in natural populations: A modelling approach

Jordan Chetcuti: Landscape connectivity effects on alpha, beta, and gamma diversity.

S41: Soil Ecology & Plant-soil Interactions (Plant-soil Interactions & Feedbacks)

Location: Baekelandzaal 1
Chair: Christina Birnbaum

- 15:00 Mathilde Chomel:** Soil food web structure modifies the effect of drought on plant-soil C fluxes
- 15:15 Dominik Merges:** Using high-throughput sequencing to unravel abiotic and biotic effects on seedling establishment and survival
- 15:30 Yvonne Buchholz:** Individual plant-soil feedbacks structure native grassland communities at multiple spatial scales
- 15:45 Jasper Wubs:** Steering community establishment – soil inoculation and sowing affect above- and belowground communities on decadal timescales
- 16:00 Haikun Ma:** Plant-soil feedback effects on growth, defense and susceptibility to a soil-borne disease: species and functional group effects
- 16:15 Yu Fukasawa:** Effects of fungal wood decomposers on *Picea abies* seedling establishment on coarse woody debris
- 16:30 Jara Domínguez-Begines:** Impacts of oak decline on soil nematode communities in Mediterranean mixed forests
- 16:45 Juan Zuo:** Non-additive effects of tree species mixtures on soil related ecosystem properties and functions at a continental scale
- Gemma Rutten:** The role of plant-soil feedbacks in oak forests in a drier world
- Leigh-Anne Kemp:** Plants and arbuscular mycorrhizal fungi: Are they tolerating abiotic stresses together?
- Laura Reinelt:** Investigating the effect of plant community and soil properties on plant trait plasticity in a calcareous grassland
- Martine Huberty:** Plant-soil feedback affects aboveground metabolomic profiles of 12 plant species

Claudia Breitzkreuz: Impact of plant growth promoting rhizobacteria (PGPR) on stress resistance of winter wheat

Ellen Desie: As above, so below? Tree species conversion triggers a trophic cascade causing a regime shift in a temperate forest ecosystem.

Roger Tang: Assessing the use of soil trace metal content in predictive modelling for vegetation distribution.

Eliška Kuťáková: Interactive plant-soil feedback effects in model micro-communities

S42: Macroecology and Biogeography (Ranges, Distributions & Dispersal)

Location: Baekelandzaal 2
Chair: Tim Newbold

- 15:00 Christine Howard:** Global variation in the drivers of threatened terrestrial vertebrate richness
- 15:15 Dirk Karger:** Why treelines are lower on islands – insights from new high resolution climate data
- 15:30 Amaël Le Squin:** Upscaling tree species processes: from local demography to continental distribution
- 15:45 Caroline Greiser:** What limits a forest herb at its cold range margin (climate, light or soil)? And who suffers first (seeds, seedlings or adults)?
- 16:00 Yu Liang:** Distribution patterns and driving factors of mycorrhizal plants in China
- 16:15 Alison Eyres:** The effects of seasonal migration on the climatic niches of passerine birds.
- 16:30 Jesse Kalwij:** Vagrant birds as possible agents of plant distribution range expansion to a Southern Ocean island
- 16:45 Kristoffer Hylander:** Plant landscape and continental range optima correlate for maximum but not for minimum temperature
- Anna Phillips:** Effects of phylogeny and geography on ecomorphological traits in passerine bird clades
- Maria Sporbert:** The relationship between macroclimatic niche volume, regional niche width and local species abundance for a large number of European vascular plant species
- Ellen Coombs:** What do cetacean stranding records tell us? A study of UK and Irish cetacean richness and diversity over the past 100 years

ORAL PRESENTATIONS

Wednesday 13 December

Conor Waldoock: Using geographic relationships between abundance and temperature to predict abundance change with warming in reef fish assemblages

Lena Watermann: Functional traits in exotic plant species along an elevational gradient in South Africa – the role of plasticity and local adaptation

Marie-Bé Leduc: Analysis of global patterns of bird and mammalian species richness to deliver remotely-sensed Essential Biodiversity Variables (RS-EBV)

Dinara Sadykova: Identifying environmental regions for large-scale experiments

S43: Theoretical or Computational Ecology (Mechanisms & function)

Location: Baekelandzaal 3

Chair: Hans Verbeeck

- 15:00 Hans Verbeeck:** Introducing tropical lianas in a vegetation model, methods and first results
- 15:15 Dirk Lohmann:** Zooming in on coarse plant functional types – simulated response of savanna vegetation composition in response to aridity and grazing
- 15:30 Katharina Brinck:** Towards a mathematical framework for quantifying bottom-up and top-down selection during ecosystem evolution
- 15:45 Toni Klauschies:** Enhancing the realism of trait-based aggregate models by considering important shape properties of natural trait distributions
- 16:00 Ruben Ceulemans:** Effects of introducing trait variation on the structure and dynamics of a tritrophic food web
- 16:15 Sonja Hohlfield:** FENNEC – Functional Exploration of Natural Networks and Ecological Communities
- 16:30 Sabiha Majumder:** Demographic noise can promote bistability in ecosystems even with weak positive interactions
- 16:45 Jean-François Arnoldi:** The variability spectrum and the diversity-stability relationship
- Sophia Wassermann:** Modelling the shoaling behaviour of Atlantic mackerel to improve stock assessment methods
- Liubov Zakharova:** Trait-based modelling as a tool for understanding community dynamics based on *Anastatica hierochuntica* communities in the Negev Desert
- Lionel Hertzog:** Deriving patch topology in real-world settings from optimized resistance map using circuit theory and community differentiation

William Kay: From brick to bullet: Using Computational Fluid Dynamics to design bio-logging tags with minimal drag

Laura Lee: How does body shape affect growth during ontogeny?

Ludmilla Figueiredo: Mechanisms of extinction debt across ecological levels

S44: Parasites Pathogens or Wildlife Disease (Spread & Persistence)

Location: Guislainzaal 1

Chair: Heike Lutermann

- 15:00 Xavier Lambin:** Land use changes associated with global trade of alfalfa fodder trigger range expansion and population outbreaks by common voles and epizootic tularemia infections in voles and humans
- 15:15 Lucinda Kirkpatrick:** Environmental correlates of virus transmission in rodents.
- 15:30 Lisa Gecchele:** The role of the urban environment in shaping parasite communities of red foxes in Edinburgh
- 15:45 Pierre Gras:** Urban structures affect the spread of a wildlife disease
- 16:00 Maarten Schrama:** Human practices promote presence, abundance and shifts in communities of disease transmitting mosquito species
- 16:15 Akira Terui:** Parasite infection induces size-dependent host dispersal: consequences for parasite persistence
- 16:30 Lasse Ruokolainen:** Landscape structure influences the spread of a bat fungal disease
- 16:45 Matthew Silk:** Heterogeneity in importance to disease transmission related to social behaviour in the European badger *Meles meles*
- Willem Van Hoesel:** Abundance of vectors of avian malaria and parasite prevalence within the vector are influenced by different forest properties in German beech forests
- Flavia Occhibove:** An eco-epidemiological model for tick-borne diseases: which are the key parameters affecting transmission?
- Diana Erazo:** Deforested habitats associated with r-selected host species communities predict higher parasite maintenance in a sylvatic *Trypanosoma cruzi* system

ORAL PRESENTATIONS

Thursday 14 December

TT9: Environmental and Ecological Metabolomics

Location: Auditorium

Chairs: Mirka Macel & Nicole van Dam

- 09:45 Caroline Müller:** Ecometabolomics as tool to disentangle plant-environment interactions on various scales
- 10:15 Frédéric Francis:** Application of “omics” approaches to investigate aphid responses and adaptations
- 10:30 Onno Calf:** Ecogenomics analysis of *Solanum dulcamara* reveals chemical diversity in glycoalkaloids related to slug resistance
- 10:45 Ina Meier:** Metabolomics of root exudates in mature AM and ECM trees: mycorrhizal colonization as the primary control of carbon–nutrient couplings in a temperate forest
- 11:00 Sophie Dietz:** Root-derived exudates and their relationship to plant functional traits in grassland communities
- 11:15 Arthur David:** Highly sensitive metabolomics-based techniques for characterising the chemical exposome and its effects on the metabolism of fish exposed to wastewater effluents
- 11:30 Garbeva Paolina:** Volatile affairs in microbial belowground interactions

TT10: Are we any good at Simulating Ecology? Success and Future Challenges in Ecological Simulation Models

Location: Casinozaal 1

Chairs: Nick Golding, Florian Hartig & Cedric Scherer

- 09:45 David Orme:** Simulations I Have Known and Loved
- 10:15 Damaris Zurell:** Why everybody should have a virtual ecologist
- 10:30 Mike Harfoot:** General ecosystem models – generally simulating ecosystems – progress and lessons
- 10:45 Laura Pollock:** Can we recover species interactions from co-occurrence data? A test with community simulations and Joint Species Distribution Models
- 11:00 Dries Bonte:** The use of system’s approaches in modelling to understand eco-evolutionary dynamics in space

- 11:15 Sonia Kefi:** Early warning signals of ecosystem degradation

11:30 Discussion

TT11: Winter Ecology: Expanding the Focus in a Changing World

Location: Casinozaal 2

Chairs: Robert Mills, Bjorn Robroek, Lilian Rues

- 09:45 Stef Bokhorst:** Belowground responses to changing winter conditions
- 10:15 Hugh Henry:** Increased soil frost caused by reduced snow cover as a component of reduced precipitation effects on plant productivity: a multi-site analysis
- 10:30 Twinkle Solanki:** Temperature fluctuations above the snow pack moderate UV-screening and recovery of photosynthetic capacity of *Vaccinium vitis-idaea* leaves during spring
- 10:45 Blume-Werry Gesche:** Out of sight, out of mind: should we consider roots in winter ecology studies?
- 11:00 Minna Männistö:** Responses of soil microbial communities to contrasting winter-time snow accumulation in sub-arctic tundra
- 11:15 Eveline Krab:** Linking microbial and soil fauna diversity responses to winter climate change in a greening arctic tundra
- 11:30 Discussion**

S45: Ecosystem & Functional Ecology (Species & Community Traits)

Location: Conceptstore

Chair: Ofir Katz

- 09:45 Jennifer Firn:** Leaf nutrients, not specific leaf area, are consistent functional indicators of short-term environmental change in grasslands
- 10:00 Jens Kattge:** The TRY initiative on plant traits: recent and ongoing developments
- 10:15 Léa Kervroëdan:** Understanding functional diversity effects of aboveground functional traits on soil erosion processes in herbaceous vegetation
- 10:30 Vanessa Minden:** Plant trait responses and species interactions along gradients of N:P:K stoichiometry
- 10:45 Jana Martinkova:** Root-sprouting clonal plants do not forage for nutrients

ORAL PRESENTATIONS

Thursday 14 December

- 11:00 Martyna Kotowska:** Tree size in combination with wood anatomy explains water use and productivity in tropical trees
- 11:15 Simone Fontana:** Even spacing of individuals along multiple trait axes predicts phytoplankton community properties in lakes, and is driven by light limitation in experimental populations
- 11:30 Marc Cadotte:** Functional traits explain ecosystem function through opposing mechanisms

S46: Global Change Ecology (Phenology, Timing & Temporal Change)

Location: Jan Van Eyckzaal
Chair: Merav Seifan

- 09:45 Ellen Cieraad:** Interactions of artificial light, temperature and cloudiness on plant phenology
- 10:00 Andrey Malyshev:** Timing of sudden warm spells alters bud dormancy depth and subsequent spring phenology in tree seedlings.
- 10:15 Maria Vorkauf:** Earlier and later snowmelt regimes exert different flowering responses in alpine plants
- 10:30 Friederike Gehrmann:** Phenological responses to small-scale spatial variation in snowmelt timing reveal compensatory and conservative strategies in subarctic-alpine plants
- 10:45 Christopher Johnson:** How climate warming affects plant phenology and reproduction in the Swiss Alps
- 11:00 Richard Howells:** Carry over effects of reproduction drive phenology and productivity in an iteroparous breeder
- 11:15 Mariela Schenk:** Spring-emerging solitary bees not only consider overwintering temperature but also their own body condition for adjusting emergence dates
- 11:30 Jens Joschinski:** The relationship of phenology shifts, diurnal time budgets and the circadian clock in an aphid-predator system

S47: Community Ecology (Succession & Land-use Change)

Location: Hubert van Eyck
Chair: Ruth Mitchell

- 09:45 Bryan Foster:** Nutrient availability and seed limitation modulate grassland secondary succession and plant diversity in eastern Kansas, USA

- 10:00 Gail Stride:** Contrasting impacts of habitat fragmentation on seedlings, saplings and trees may have implications for rainforest regeneration.
- 10:15 James Tweed:** The interplay of vegetation succession and predator control on moth community structure during forest regeneration
- 10:30 Judith Sarneel:** Long term legacies of previous flooding regime affect the rate of vegetation change
- 10:45 Miki Bálint:** Environmental DNA reveals long-term biodiversity dynamics under land-use change
- 11:00 Yaron Ziv:** Partitioning species and environmental diversity in fragmented landscapes: testing the scale-matching hypothesis
- 11:15 Jan Plue:** Interspecific variation in ploidy as an overriding plant trait outlining extinction risks, species distributions and community structure in fragmented landscapes
- 11:30 Cristina Banks-Leite:** Trait-based indicators of bird species sensitivity to land-use change are effective within but not across datasets

S48: Macroecology & Biogeography (Diversity, Networks & Interactions)

Location: Van der Goeszaal
Chair: Garrett Street

- 09:45 Riin Tamme:** Do local or regional factors determine small-scale species richness patterns in temperate grasslands around the world?
- 10:00 Hannah White:** Human impact on the species-energy relationship: pasture drives a negative relationship in Irish vascular plants
- 10:15 Vincent Pellissier:** Niche packing and expansion concur to shape species richness: productivity relationships in global bird assemblages
- 10:30 Antonia Mayr:** Diversity and interactions in host-antagonist systems along climate and resource gradients at Mount Kilimanjaro
- 10:45 Kevin Czelles:** Towards an energetic theory of island biogeography
- 11:00 Eveline Pinseel:** Disentangling the biogeographical and evolutionary history of diatoms in the Polar Regions: data from fossils and molecular phylogenies
- 11:15 Joern Pagel:** Can trait-based joint species distribution models disentangle biotic and abiotic drivers of co-occurrence patterns across shrub communities in the South African Fynbos?

ORAL PRESENTATIONS

Thursday 14 December

11:30 **Keping Ma:** Mapping Asia plants: initiative and progress

S49: Global Change Ecology (Biodiversity & function)

Location: Van Rysselberghezaal
Chair: Robert Junker

09:45 **Frederik De Laender:** Environmental change and biodiversity-ecosystem function research

10:00 **Lotte Korell:** Meta-analysis on the effects of climate change on plant diversity in terrestrial ecosystems

10:15 **Francisca García:** Warming alters biodiversity - ecosystem functioning relationship

10:30 **Wolfgang Weisser:** Biodiversity effects on ecosystem functioning in a 15-year grassland experiment: patterns, mechanisms, and open questions

10:45 **Lisette Bakker:** Decreased complementarity effects in grassland plant communities after an extreme drought.

11:00 **Rita Sousa-Silva:** Unveiling the role of tree diversity on forest growth and resilience to drought

11:15 **Per-Ola Hedwall:** Half a century of multiple anthropogenic stressors have altered composition and function of northern forest understory communities

11:30 **Bjorn Robroek:** Decoupling taxonomic and functional turnover in European peatlands

S50: Evolutionary Ecology (Demography & Reproduction)

Location: Bauwenszaal
Chair: Pierre-Olivier Cheptou

09:45 **Johan Ehrlén:** Environmental context influences butterfly-mediated selection on plant reproductive traits in multiple ways

10:00 **Greta Bocedi:** Feed-backs among inbreeding, inbreeding depression in sperm traits and sperm competition can drive evolution of costly polyandry

10:15 **Hanna Støstad:** Why are bird sperm screw-shaped? Using electron microscopy to explore the diversity of sperm cells in passerine bird species

10:30 **Steve Albon:** Born without a "silver-spoon": does selection favour survivors of a poor start when adult environmental conditions get tough?

10:45 **Louise Archer:** Should I stay or should I go: The eco-physiology of facultative anadromy in brown trout

11:00 **Ralf Schaible:** Biodemography across the tree of life with special emphasis on the non-senescent Hydra

11:15 **Thibaut Morel-Journel:** Reaction norms in 3D: phenotypic plasticity of *Tetrahymena* ciliates according to combined temperature and nutrient levels

11:30 **Andrew Beckerman:** Partitioned resource reveals trade-off between growth and defence.

S51: Population Ecology (Adaptation & Environmental Change)

Location: Baekelandzaal 1
Chair: Armin Bischoff

09:45 **Dylan Childs:** Demographic and trait-mediated processes buffer a hibernating rodent against environmental variation

10:00 **Franziska Brunner:** Multivariate phenotypic plasticity and local adaptation in *Daphnia magna* populations from different climatic zones

10:15 **Callum Lawson:** Does evolving under environmental fluctuations help species to survive climate change?

10:30 **Isabella Durham:** Adaptation to "dishonest" environmental signals: insights from an experimental microcosm

10:45 **Rosemarie Kentie:** Effects of climate change and land-use intensity on laying dates and population growth rates of black-tailed godwits

11:00 **Brage Hansen:** More frequent extreme climate events stabilize wild reindeer dynamics in the high Arctic

11:15 **Mathilde Le Moullec:** Spatiotemporal patterns of shrub growth in a warming high Arctic: a tale of diminishing regional spatial synchrony

11:30 **Johannes Metz:** Seedling emergence between risk-spreading and competition: remarkably stable germination behaviour along a strong climatic gradient and its response to seed competition

S52: Behavioural Ecology (Movement & Dispersal)

Location: Baekelandzaal 2
Chair: Nicolas Schtickzelle

09:45 **Ulrich Brose:** The little things that run: automated tracking of invertebrate movement

ORAL PRESENTATIONS

Thursday 14 December

- 10:00 Marwa Kavelaars:** The consequences of emigration on reproductive success in lesser black-backed gulls
- 10:15 David Bierbach:** Size-dependent leadership behavior in fish revealed by the use of a biomimetic robot
- 10:30 Holly English:** Walking on long legs: logging ethograms and energetics of wild dogs and maned wolves
- 10:45 Kiran Dhanjal-Adams:** Four friends: first evidence of near passerines migrating in close-knit social groups
- 11:00 Victoria Boulton:** Understanding African elephant (*Loxodonta africana*) movement decisions using remote sensing to estimate foraging opportunities.
- 11:15 Chloe Bracis:** Analyzing spatio-temporal patterns in animal behavior through movement path recursions
- 11:30 Ilka Vosteen:** Odour-guided foraging of parasitoids in the field is less straightforward than assumed

S53: Species Interactions (Competition, Facilitation & Coexistence)

Location: Baekelandzaal 3

Chair: Viktoriia Radchuk

- 09:45 Alison Bennett:** Multiple mechanisms by which arbuscular mycorrhizal fungi can influence above-ground herbivore parasitism
- 10:00 Maarja Õpik:** Interactions between grassland plants and arbuscular mycorrhizal fungi are selective
- 10:15 Maartje Klapwijk:** Apparent mutualism or competition? Preference and density dependence determine the outcome of indirect interactions between shared resources.
- 10:30 Arjen Biere:** Can beneficial microbes help mitigate plant growth-defense trade-offs?
- 10:45 Nitsan Bar-Shamuel:** Tripartite symbiosis between a desert plant, weevils and nitrogen-fixing bacteria
- 11:00 Yuxin Zhang:** From individuals to ecosystem: the keystone role of ant-aphid mutualism in oak forest
- 11:15 Katrin Wagner:** On the exclusivity of an intimate relationship: vascular epiphytes and their host trees
- 11:30 Diethart Matthies:** The performance of root-hemiparasitic plants with single hosts and binary host combinations

S54: Conservation Science (Services & Functions)

Location: Guislainzaal 1

Chair: Danny Hooftman

- 09:45 Anne-Christine Mupepele:** The evidence base of ecosystem-services research in European agroforestry
- 10:00 Martin Sullivan:** Do the most biodiverse tropical forests also store the most carbon?
- 10:15 Eva Horcicková:** Wild ungulates slow down secondary succession in abandoned landscape
- 10:30 Benjamin Yguel:** Is tropical forest resilient to selective logging with 30 years rotation cycles?
- 10:45 Richard Walton:** Farmland pond management improves floral communities and pollinating invertebrate biodiversity in the agricultural landscape
- 11:00 Christopher Kaiser-Bunbury:** Restoration reverses ecosystem degradation by strengthening pollination network resilience and function
- 11:15 Nadja Simons:** Optimal distribution of grassland management allows for improved production without arthropod diversity loss
- 11:30 Robert Briers:** Prioritisation of mangrove protection in Kenya for carbon storage

TT12: Eco-evolutionary Dynamics in an Urbanized World

Location: Auditorium

Chair: Luc De Meester

- 12:30 Marina Alberti:** Eco-evolutionary dynamics in an urbanizing planet
- 13:00 Pierre-Olivier Cheptou:** Plant adaptation to urban environments
- 13:15 Nedim Tüzün:** Sexual selection reinforces a higher flight endurance in urban damselflies
- 13:30 Kristien Brans:** Rapid thermal evolution driven by urbanization shapes predator-prey dynamics
- 13:45 Thomas Merckx:** Body size shifts in urban communities
- 14:00 Lynn Govaert:** Eco-evolutionary dynamics in urbanized landscapes: evolution, species sorting and the change in zooplankton body size along urbanization gradients
- 14:15 Maxime Dahirel:** Body size constraints and behavioural adaptation to city life: a case study in the spider *Araneus diadematus*

ORAL PRESENTATIONS

Thursday 14 December

TT13: Plant-pollinator Interactions in the Changing Arctic and Montane

Location: Casinosaal 1

Chairs: Joanne M Bennett & Tiffany M Knight

- 12:30 Knight Tiffany:** Changes in plant-pollinator interactions across 140 years in the Alps
- 13:00 Josef Settele:** The IPBES pollination assessment: outcomes and perspectives
- 13:15 Joanne Bennett:** Global change drivers are increasing pollen limitation in wild plants
- 13:30 Toke Høye:** Declining diversity and abundance of High Arctic fly assemblages over two decades of rapid climate warming
- 13:45 Scott Armbruster:** Thermal ecology and phenology of arctic/subarctic pollinators: foraging traps and habitat refuges
- 14:00 Mikko Tiusanen:** Mountain avens and muscid flies as key parts of the pollination network of the High Arctic
- 14:15 Amparo Lazaro:** Pollen limitation, habitat fragmentation and pollinator loss in the subarctic

S55: Theoretical or Computational Ecology (Advances in Modelling)

Location: Casinosaal 2

Chair: Theresa Stratmann

- 12:30 Hal Caswell:** A solution to the problem of variance and heterogeneity in demography
- 12:45 Mira Kattwinkel:** Bayesian parameter inference for individual-based/agent-based models: introduction and application of a Particle Markov chain Monte Carlo method
- 13:00 Florian Hartig:** Few data, many predictors – comparing model selection, model averaging and regularization in underpowered regression studies
- 13:15 Lukas Egli:** Exploring resilience with agent-based models: state of the art, knowledge gaps and suggestions to cope with multi-dimensionality
- 13:30 Nick Golding:** Greta: simple and scalable statistical modelling in R
- 13:45 Theresa Stratmann:** Combining vegetation and movement models to explore linkages between motion- and carrying capacity
- 14:00 Juliano Sarmiento Cabral:** Towards integrative ecology via multi-theoretical frameworks

- 14:15 Carsten Dormann:** Model averaging in ecology: options and disappointments

S56: Ecosystem & Functional Ecology (Diversity & Function II)

Location: Conceptstore

Chair: Ian Thornhill

- 12:30 Helge Bruelheide:** Mechanisms of biodiversity-ecosystem functioning: insights from Chinese subtropical forests
- 12:45 Koenraad Van Meerbeek:** The contribution of belowground processes to tree diversity effects on ecosystem functioning
- 13:00 Thomas Van de Peer:** Tree seedling vitality improves with functional diversity in a Mediterranean common garden experiment
- 13:15 Fabio Carvalho:** Determining the response of plant functional and phylogenetic diversities to changes in management in lowland fens: implications for ecosystem processes and environmental change
- 13:30 Tanja Milotic:** Do functionally richer communities improve ecosystem functioning? Dung removal and secondary seed dispersal by dung beetles in the Western Palaearctic
- 13:45 Sara König:** Stable biomass versus stable function – opposite effects of spatial fragmentation on the resistance of virtual microbial ecosystems
- 14:00 Santiago Soliveres:** The dimensionality of ecosystem multifunctionality: towards a comprehensive quantification of ecosystem functioning
- 14:15 Eric Allan:** Effects of multitrophic changes in species composition and richness on ecosystem functioning

S57: Community Ecology (Coexistence & Competition)

Location: Jan Van Eyckzaal

Chair: Andreas Prinzing

- 12:30 Katja Tielbörger:** Facilitation from an intraspecific perspective: stress tolerance determines facilitative effect and response in plants
- 12:45 Alain Danet:** Effects of indirect facilitation on functional originality, dominance and niche differentiation in tropical alpine communities.
- 13:00 Steffen Boch:** Hemiparasite-density effects on grassland plant diversity, composition and biomass

ORAL PRESENTATIONS

Thursday 14 December

- 13:15 Merav Seifan:** In search of a unified approach for food deception in plants: studying potential effects of floral and pollinator traits using simulation models
- 13:30 Caterina Penone:** Drivers of multitrophic diversity in temperate forests
- 13:45 Nico Blüthgen:** Dung beetle diversity and generalization: trophic network complexity improves an important ecosystem service
- 14:00 Lynsey Harper:** Assessing the impact of threatened crucian carp (*Carassius carassius*) on pond macroinvertebrate diversity: a comparison of conventional and molecular tools
- 14:15 Ursula Gaedke:** Realistic trophic transfer efficiencies and trait adjustments improve structure and dynamics of food web models

S58: Community Ecology (Dispersal & Distributions)

Location: Hubert van Eyck
Chair: Sofia van Moorsel

- 12:30 Eric Zenner:** Small-scale age heterogeneity in a multi-aged, multi-layered European beech (*Fagus sylvatica*) old-growth forest contravenes Watt's (1947) patch mosaic model
- 12:45 Thorsten Wiegand:** What drives the spatial distribution and dynamics of local species richness in tropical forest?
- 13:00 Lin Huang:** Patterns of temporal niche differentiation among habitats: is there evidence for overdispersion?
- 13:15 David García-Callejas:** The influence of trophic position on species abundance distributions
- 13:30 Casper Van Leeuwen:** Great cormorants reveal overlooked secondary dispersal of plants and invertebrates by piscivorous waterbirds
- 13:45 Thomas Vanneste:** Linking plant dispersal traits to landscape connectivity along a latitudinal gradient
- 14:00 Carsten Buchmann:** Determinants of long distance seed dispersal by mammals and birds in fragmented landscapes: insights from a mechanistic community model
- 14:15 Sara Cousins:** Grazing networks enhance functional genetic connectivity across fragmented populations

S59: Macroecology & Biogeography (Function, Abundance & Phenology)

Location: Van der Goeszaal
Chair: Tom Ezard

- 12:30 Nick Isaac:** Global drivers of population abundance in terrestrial vertebrates
- 12:45 Manuela Gonzalez Suarez:** Reevaluating the size-density relationship for mammals: brain size matters
- 13:00 Katharine Keogan:** Global meta-analysis of seabird breeding phenology: have birds adjusted their breeding season?
- 13:15 Timo Conradi:** Herbivory and herbivore extinctions shape the global distribution of tropical forest and savanna
- 13:30 Faith Jones:** Global assemblage change: common species are becoming increasingly abundant
- 13:45 Garrett Street:** A global estimate of terrestrial net secondary productivity of primary consumers
- 14:00 Gregor Kalinkat:** Understanding the freshwater biodiversity crisis in the light of exceptional allometric scaling relations
- 14:15 Donatella D'Onofrio:** Between water and fire, grasses and tree functional types reveal the African tropical biome distribution: learning from observations and dynamic global vegetation models

S60: Global Change Ecology (Sensitivity or Mortality)

Location: Van Rysselberghezaal
Chair: Maria Paniw

- 12:30 Irene Cordero:** Shifts in soil microbial community function result from extreme and frequent perturbations
- 12:45 Francisco Lloret:** Using species distribution models to explain drought-induced vegetation die-off
- 13:00 Emma John:** Sensitivity of global primary productivity to climate variability
- 13:15 Vasilis Dakos:** Phenotypic plasticity affects tipping point responses in populations under stress
- 13:30 Michiel Veldhuis:** Activity trade-offs in a warmer world: body size determines how herbivores balance thermoregulation, predation risk and food requirements

ORAL PRESENTATIONS

Thursday 14 December

- 13:45 Cristina Garcia:** Prolonged drought events causes fecundity decline and increases dieback in a genetically depauperate Mediterranean secondary forest
- 14:00 Friedrich Bohn:** How forest structure influences temperature sensitivity of forests.
- 14:15 Sean McMahon:** The probable, the possible, and the highly unlikely: a review of global forest mortality guided by life-history theory

S61: Agricultural Science (Landscapes & Diversity)

Location: Bauwenszaal
Chair: Adam Vanbergen

- 12:30 Matthias Tschumi:** The contribution of predators to ecosystem services and disservices in agricultural landscapes
- 12:45 Larissa Schaub:** Land sharing vs. land sparing: How much does landscape diversity contribute to yield in winter-wheat fields?
- 13:00 Paul Van Rijn:** Landscape complementation for natural pest control
- 13:15 Anne-Kathrin Happe:** Generalist predators in apple orchards and their functional traits: responses to orchard management, woody habitats and landscape composition
- 13:30 Brice Giffard:** Local management and landscape diversity drive species richness and abundance of carabids in European vineyards
- 13:45 Maxime Eeraerts:** Semi-natural elements support diverse pollinator communities in sweet cherry orchards in moderately intensified landscapes
- 14:00 Jens Schirmel:** Landscape complexity promotes hoverflies in semi-natural habitats
- 14:15 Karin Pirhofer Walzl:** Soil microbial influence of natural landscape elements and landscape structure on agricultural fields

S62: Invasive Species (Expansion & Environment)

Location: Baekelandzaal 1
Chair: Nessa O'Connor

- 12:30 Sylvia Haider:** Invasion into mountain areas: Climatic pre-adaptation increases plant invasiveness whereas community invasibility is not increased through climate warming – but disturbance
- 12:45 Benoît Geslin:** Range expansion of the Asian native giant resin bee *Megachile sculpturalis* in France.

- 13:00 Yves Klinger:** Increased distribution of the invasive perennial *L. polyphyllus* in the Rhön Biosphere Reserve between 1998 and 2016
- 13:15 Iolanda Silva-Rocha:** Colonization history of an invasive lizard: the first step to understanding the invasion
- 13:30 Maria Hock:** Plant invasions in high UV-B environments – native distribution patterns and functional traits as predictors of pre-adaptation
- 13:45 Rakhi Palit:** Factors influencing the lag-phase between introduction and naturalization of non-native horticultural plants in an urban environment
- 14:00 Christina Birnbaum:** Vegetation dynamics in rapidly declining coastal wetlands – the role of cosmopolitan reed grass *Phragmites australis* in the Gulf Coast
- 14:15 Ingolf Kuehn:** Is there an urban effect in alien plant invasions?

S63: Behavioural Ecology (Adaptation)

Location: Baekelandzaal 2
Chair: Lucinda Kirkpatrick

- 12:30 Monif AlRashidi:** Behavioral mechanisms adopted by incubating seabirds to cope with extreme hot environments: a case study of the incubation of lesser crested terns (*Thalasseus bengalensis*)
- 12:45 Daniella Rabaiotti:** Coping with climate change: limits to behavioural plasticity in a tropical carnivore
- 13:00 Dries Van de Loock:** Cooperative breeding in an Afrotropical songbird: a buffer against habitat disturbance?
- 13:15 Juliane Lukas:** Adaptive value of collective fright waves by Mexican sulfur mollies (*Poecilia sulphuraria*) as response to avian predation
- 13:30 Udi Segev:** Behavioural trait correlations in ants shift in response to temperature
- 13:45 Annelies Van Ginkel:** Keep calm and carry on: behavioural comparison of naive and non-naive deer in response to wolf urine
- 14:00 Pedro Bergamo:** Flower colour and visitation rates of *Costus arabicus* support the “bee-avoidance” hypothesis for red-reflecting hummingbird-pollinated flowers
- 14:15 Antje Herde:** Is individual fitness influenced by space use and personality in common voles?

ORAL PRESENTATIONS

Thursday 14 December

S64: People & Nature (Conservation)

Location: Baekelandzaal 3

Chair: Eric Higgs

- 12:30 Rebecca Thomas:** They are what we eat: how feeding rates and public attitudes have affected red kite (*Milvus milvus*) diet across the UK following their reintroduction
- 12:45 Gitte Kragh:** Are volunteer motivations and well-being important for achieving conservation goals?
- 13:00 Ugo Arbieu:** Social-ecological implications of wolves returning to Germany: quantifying attitudes and understanding their determinants
- 13:15 Katherine Vande Velde:** Have a little faith? Discourses on mangrove conservation and management in Singapore.
- 13:30 Evelyn Piña Covarrubias:** Interactions of jaguars (*Panthera onca*) and pumas (*Puma concolor*) with their prey and humans in the Yucatán Peninsula
- 13:45 Susanne Vogel:** How decisions lead to conflict – The role of foraging trade-offs in elephant crop consumption
- 14:00 Helen Wheeler:** What are the needs for effective pan-arctic wildlife monitoring in complex socio-ecological systems and how well are they being met?
- 14:15 Matthew Struebig:** Tolerating tigers: do local beliefs offset human-wildlife conflicts?

S65: Parasites Pathogens or Wildlife Disease (Populations & Communities)

Location: Guislainzaal 1

Chair: Ellen Decaestecker

- 12:30 Ellen Decaestecker:** The role of the Daphnia microbiome along the parasitism-mutualist continuum
- 12:45 Richard Hassall:** Understanding microparasite diversity and co-occurrence in spatially structured host populations
- 13:00 Alena Gsell:** Fungal parasites of phytoplankton in a food-web context
- 13:15 Tuomas Aivelo:** Spatial, environmental and genetic factors affecting microbiome composition and pathogen presence in Ixodes ticks

- 13:30 Heike Lutermann:** Longitudinal data reveal strong competitive relationships for generalist fleas within the flea infracommunity of Namaqua rock mice (*Micaelamys namaquensis*)
- 13:45 Lewis Bartlett:** Honeybees and disease – unusual outcomes and unexpected threats
- 14:00 Bret Elderer:** Trait-mediated indirect effects from the bottom-up in an insect host-pathogen system
- 14:15 Brianna Beechler:** Bovine tuberculosis alters pathogen community structure in African buffalo

POSTER SESSION 1

Tuesday 12 December

Posters will be displayed in the main Exhibition Hall of the conference centre; Pedro de Gante.

There will be two separate poster sessions. Presenters will be required to stand at their poster in one of the two formal poster sessions, according to the poster number below.

All poster numbers with a letter followed by the number 1 (A1 – N1) will be part of Poster Session 1, which will take place on **Tuesday 12 December, 17:15 – 18:45**.

All poster numbers with a letter followed by the number 2 (A2 – N2) will be part of Poster Session 2, which will take place on **Wednesday 13 December, 18:00 – 19:30**.

Agricultural Science

- A1.0** **Claudia Havranek:** Monitoring the impact of agri-environmental schemes on plant diversity: surveying methods, inter-observer differences and the apparent impact on plant diversity trends.
- A1.1** **Erasmus Zu Ermgassen:** Delivering sustainable intensification in the Brazilian Amazon
- A1.2** **Supratim Laha:** A study on wild vegetation and their interactive pollinators in Eastern India
- A1.3** **Ronnie Walcher:** Two methods to assess grasshoppers in grassland habitats: a comparison of the frequently used acoustic-visual method and a novel soundscape approach
- A1.4** **WITHDRAWN**
- A1.5** **Guy Rotem:** Biological pest control by barn owls: not as simple as we thought...
- A1.6** **Giovanni Scire':** The production management of hazelnuts in Province of Cuneo, under a system dynamics approach: how the dormice affect its performance.
- A1.7** **Katie Threadgill:** Assessing the impact of UK agri-environment schemes on the connectivity of protected areas
- A1.8** **Annika Hass:** Landscape configurational heterogeneity by small-scale agriculture, not crop diversity, maintains pollination services in Western Europe
- A1.9** **Matteo Dainese:** Global effects of land-use change on biodiversity-driven ecosystem services in agroecosystems
- A1.10** **Daisuke Hayasaka:** Comparative ecotoxicity of different systemic insecticides to aquatic insects in experimental paddies
- A1.11** **Juliane Vogt:** Ten years of land use questionnaire in grasslands for biodiversity: related research.

- A1.12** **Deniz Uzman:** Presence and diversity of entomopathogenic fungi in conventionally and organically managed vineyard soils
- A1.13** **Daniel Bebber:** Positive effects of recent and future climate change on banana productivity in India
- A1.14** **Miranda Prendergast-Miller:** The highs and lows of soil management practices on earthworm communities over two years: impact of grass-clover leys and tillage
- A1.15** **Merav Shemesh:** Land sharing at the agroecosystem matrix of Southern Judea Lowlands: different land-uses at different scales harbor different arthropod communities
- A1.16** **Martin Pingel:** Responses of soil bacteria and fungi to soil management and soil physicochemical properties in German vineyards
- A1.17** **Melanie Jane Edgar:** The interactive effect of grazing and climate warming on soil carbon and nitrogen storage and greenhouse gas emissions in upland grassland ecosystems.

Community Ecology

- B1.0** **Diego Balestrin:** Phytosociological study in a mined area to define restoration measures, Minas Gerais, Brazil
- B1.1** **Aleš Lisner:** Piper climbers prefer large rare trees in a lowland tropical rain forest (in New Guinea)
- B1.2** **Andreas Richter:** Drivers for microbial community assembly: regional conditions versus local forest management
- B1.3** **Gerardo Ceron-Martinez:** Forest edge effects on palm communities in the Mexican tropics
- B1.4** **Martin Freitag:** From grazing to fire: post-Soviet disturbance shift alters steppe vegetation
- B1.5** **Camilla Bertolini:** Separating the components of habitat complexity for the restoration of biogenic reefs

POSTER SESSION 1

Monday 14 December

- B1.6 Kristiina Visakorpi:** The effects of early-season caterpillar herbivory on the host plant performance and on the late season oak-associated insect community
- B1.7 Eva Švambergová:** The legacy of sowing after 20 years long colonisation of ex-arable land
- B1.8 Ciara Sugrue:** Investigating plant community composition in seasonal coastal wetlands
- B1.9 Jinfeng Jinfeng:** Land conversion created different invasive plant communities in an urban wetland, Guangdong Province, Southern China
- B1.10 Katherine Baldock:** Assessing the effectiveness of urban flower meadows for pollinator conservation
- B1.11 Frederic Barraquand:** Coastal phytoplankton communities show weak interactions between groups and their dynamics are driven by light and hydrodynamics
- B1.12 Martin Libra:** Predation and parasitism risk to caterpillars along altitudinal gradient in a tropical rainforest.
- B1.13 Arlena Dumeier:** Active relocation of freshwater macrozoobenthos
- B1.14 Johanna Trappe:** Grassland butterfly communities of the Western Siberian forest steppe in the light of post-Soviet land abandonment
- B1.15 Clare Lawson:** Floodplain meadows: delivering biodiversity and carbon conservation.
- B1.16 Michael Crawford:** Root herbivory mediates grassland succession after intense disturbances, insights from a mechanistic individual-based model
- B1.17 Jerry Van Dijk:** Nutrient stoichiometry as a driver of species composition and responses to environmental change of wetland plant communities
- B1.18 Marie Konecna:** Anthills as habitat islands in a sea of temperate pasture
- B1.19 Felipe Librán Embid:** Fragmentation effects on plant-pollinator mutualistic networks in calcareous grasslands
- B1.20 Michael Meyer:** Influence of temporal diversification on invertebrate communities in a long-term crop-rotation experiment
- B1.21 Andreas Huth:** Monitoring of global forests using L-band Radar – Tandem-L
- B1.22 Simone Giavi:** Disruption of pollination as a function of light intensity and distance from street lamps

Conservation Science

- C1.0 Laura Bosco:** Effects of habitat quality and fragmentation on woodlarks (*Lullula arborea*) and their invertebrate prey in intensively managed vineyards
- C1.1 Jimmy Garnier:** Influence of dispersal processes on the global dynamics of emperor penguin, a species threatened by climate change.
- C1.2 Julie Louvrier:** Modelling the distribution of wolves *Canis lupus* in France using citizen science data.
- C1.3 Desiree Sehlapelo Ibouanga:** Habitat restoration upon clearing of invasive plants
- C1.4 Samantha Dawson:** Fungi, functional traits and forestry: how land use intensity changes fungal communities
- C1.5 Inken Dörfler:** Biodiversity can be promoted by integrative forest management
- C1.6 Nina Farwig:** Bridging science and practice in conservation: deficits and challenges from a researcher's perspective
- C1.7 Joe Gray:** The impact of partial overstorey removal on insect and arachnid diversity in temperate and boreal forests: a systematic review and meta-analysis
- C1.8 Hannes Hoffmann:** Riverine fen restoration provides secondary habitat for endangered and stenotopic rove beetles (Coleoptera: Staphylinidae)
- C1.9 Dana Schabo:** Supplementary food enhances the number of breeding pairs in a Cape vulture colony
- C1.10 Wieland Heim:** Wetlands on fire: contrasting impacts on bird and plant diversity in the Russian Far East
- C1.11 Yoshihiro Akiyama:** Microalgal community detected in fecal pellets of the endangered freshwater pearl mussel *Margaritifera laevis* (Bivalvia, Margaritiferidae) in a ditch of Japan: an approach to clarify mussels' diets in the field
- C1.12 Michael Voysey:** Wildlife versus livestock: consequences of changing the form of herbivory for African savanna plant communities
- C1.13 Jean-Yves Humbert:** Larval and phenological traits predict invertebrate community response to manipulation of mowing regime in extensively managed grasslands
- C1.14 Kathrin Schwarz:** Regulation of *Jacobaeae vulgaris* through biological control

POSTER SESSION 1

Tuesday 12 December

- C1.15 Louise Lehmann:** Evidence-based nature management: fen restoration
- C1.16 Jelle Boeve-de Pauw:** What do kids learn during field trips in nature? An educational effectiveness study on the interplay between novelty and learning outdoors.
- C1.17 Daniela Warzecha:** Bees in the city: the role of relict populations and connectivity for wild bees in urban green spaces
- C1.18 Nicolas Roth:** Deadwood accumulation contributes to homogenization of saproxylic beetle and wood-inhabiting fungi diversity in beech forests of different historic management intensities
- C1.19 Bruno Ens:** The many human-induced curses of the oystercatcher
- C1.20 Jessica Finan:** A spatial econometric model of land use change and bumblebee diversity in Scotland
- C1.21 Katharina Strobl:** Trajectories of plant diversity and community following disturbance induced by peatland restoration
- C1.22 Birgit Ziegenhagen:** Demographic and genetic features constitute conservation guidelines in over-aged juniper populations
- C1.23 Denise Rupprecht:** Sheep and deer grazing as tool for restoration and maintenance of calcareous grasslands: a six-year experiment
- C1.24 Tamora James:** Imputation of demographic traits using phylogenetic and functional trait information
- C1.25 Theresa Spatz:** Movement patterns of red kites (*Milvus milvus*) in relation to land use and wind turbines on different spatial scales
- C1.26 Robert Timmers:** Strict protection reduces species decline in forest fragments
- C1.27 Bénédicte Felter:** Can we coexist with the Eurasian beaver (*Castor fiber*)? An example from the Moselle watershed, France
- C1.28 Luis Carrasco:** Environmental heterogeneity regulates bird richness at a 1-km scale in the UK: Identifying priorities for maintaining UK bird diversity
- C1.29 Sebastian Vogel:** Sun exposure or tree species? Fostering conservation strategies for saproxylic organisms in managed forests
- C1.30 Pedro Leitão:** Effects of forest structure on bird occurrences in Central European forests
- C1.31 Sebastian Kolb:** What determines the conservation value of forest refugia for spiders?

Ecosystem & Functional Ecology

- D1.0 Louis Sutter:** Predicting apple pollination services and potential pollination deficits under land-use and pollinator community change scenarios
- D1.1 Jean Willy Nduwimana:** Metabolites changes in Rice(9Y6H and 5ARX49) with nitrogen fertilizer and pest (*Nilaparvata lugens*) damage
- D1.2 Daisuke Kabeya:** Does nitrogen deposition result in saturation of nitrogen demands in temperate conifer tree *Cryptomeria japonica* in Japan?
- D1.3 Anna-Lena Rau:** Temporal dynamics of ecosystem services – a quantitative review
- D1.4 Jan Vanstockem:** Is there more than meets the eye? A seed bank analysis of extensive green roofs.
- D1.5 Verena Rösch:** Does spray drift from orchards and habitat size influence leafhoppers on reed meadows in the pre-Alps?
- D1.6 Michael Raatz:** Nutritional (co-)limitation in variable environments: How the temporal scale of diet variability affects consumer performance
- D1.7 Ramona Heim:** Tundra fires – effects of a new phenomenon on ecosystem properties
- D1.8 Hongmei Chen:** Plant species richness has no significant effects on root dynamics in experimental grasslands after 13 years
- D1.9 Ryosuke Nakamura:** How does logging influence biogeochemical silicon cycling in lowland tropical forests in Borneo?
- D1.10 Tamara Ayoub:** Drooling Plants? – Pavlovian conditioning in the sensitive plant *Mimosa pudica*
- D1.11 Wouter Van Landuyt:** Influence of dead wood on bryophyte and lichen diversity in two forest reserves in Flanders
- D1.12 Tereza Mašková:** Development of seedling root/shoot ratio: seed mass interacts with soil nutrient availability
- D1.13 Annelies Calmeyn:** A decision support system for optimizing urban ecosystem services based on species choice
- D1.14 Seraina Cappelli:** The impact of global change on grassland pathogenic fungi: results from the PaNDiv experiment
- D1.15 María Felipe-Lucia:** Understanding the effects of multiple forest attributes on ecosystem services
- D1.16 Rosanne Broyd:** Investigating the influence of snow cover on carbon stocks in oceanic-alpine ecosystems: microbial biomass and basal respiration in snowbed and non-snowbed habitats

POSTER SESSION 1

Tuesday 12 December

- D1.17 Bernd Berauer:** Reduced above ground productivity of alpine grasslands under simulated climate warming
- D1.18 Nobuhiko Suminokura:** Responses of ecosystem carbon flux to long-term experimental warming in a cool temperate grassland in Japan.
- D1.19 Laura Allen:** Orchid bee responses to human disturbance in a tropical forest are best detected using abundance and community redundancy
- D1.20 Asahi Honda:** Seasonal variations in root exudation in two tree species in a warm temperate forest, in Japan
- D1.21 Kateřina Jandová:** Horizontal and vertical spatial variability in soil nutrients as a result of wood ants' activity
- D1.22 Svenja Schälicke:** Food quantity and quality co-limitation of an aquatic herbivore
- D1.23 Jessica Jaworek:** Applying the concept of physiological and ecological sensitivity assessments to non-target effects of insecticides
- D1.24 Nada Nikolic:** Modelling the long-term carbon balance of tropical lowland bryophytes: presentation of the model and first outputs
- D1.25 Vanessa Marzetz:** Assessing physiological changes in phytoplankton communities
- D1.26 Melanie Stone:** Plant community responses to experimental rainfall regimes on a UK lowland limestone grassland
- D1.27 Elisa Van Cleemput:** Plant functional types vs. optical types: do spectral clusters of herbaceous species capture functional trait variation?
- D1.28 Jonathan Von Oppen:** Tea time on the summits: belowground processes rather than temperature determine alpine leaf litter decomposition
- D1.29 Anett Richter:** Intergenerational use of culture ecosystem services- how pupils, their parents and grandparents use and understand services provided by nature
- D1.30 Sebastian Fiedler:** MOVED TO AN ORAL PRESENTATION IN S4: ECOSYSTEM FUNCTION & ECOLOGY
- D1.31 Erik Welk:** Woody species macroclimatic niche position as an important covariate in experimental BEF research.
- D1.32 Jakub Kvasnica:** Post-logging resprouting of woody plants along a disturbance gradient in Bornean lowland forests
- D1.33 Althea Davies:** Dung-loving fungal spores as a proxy for herbivore impacts on peatlands

- D1.34 Tobias Proß:** The application of near-infrared field spectroscopy as a method of fast and detailed analysis of leaf traits
- D1.35 Kang Yu:** Urban tree health monitoring with hyperspectral and chlorophyll fluorescence measurements
- D1.36 Angie Elwin:** Impact of shrimp farming and shrimp pond abandonment on mangrove ecosystem carbon stocks.
- D1.37 Ludovica Oddi:** Microbial community activity along gradients of snow lie in the Scottish Highlands
- D1.38 Jeroen Degerickx:** Assessment of urban tree health using airborne remote sensing technology
- D1.39 Anna Lavelle:** Influence of restoration on fish community structure in urban rivers
- D1.40 Abiel Rindisbacher:** How do land-use intensification and biodiversity loss affect ecosystem resilience? A meta-analysis of manipulative experiments
- D1.41 Consolata Siniscalco:** The role of the microtopography of a subalpine grassland in the decomposition process: not only structure

Evolutionary Ecology

- E1.0 Niek Scheepens:** GrENE-net: a global evolution experiment
- E1.1 Karen Bisschop:** Microbiomes under selection: experimental evolution with spider mites
- E1.2 Miriama Malcicka:** De novo synthesis of linoleic acid in multiple collembola species
- E1.3 Anubhav Mohiley:** Herbivory can induce foraging for poison in plants
- E1.4 Shira Houwenhuyse:** The Daphnia microbiome: what is core, what is flexible?
- E1.5 Javier Puy:** Transgenerational effects in plant competition improve offspring adaptability
- E1.6 Charlotte Sieger:** Evolutionary strategies for coping with environmental variability and change
- E1.7 Swastika Issar:** Resource use and population divergence in burying beetles
- E1.8 Jonathan Goldenberg:** To heat fast or to cool fast: the vipers (Viperidae Oppel, 1811) dilemma
- E1.9 Abigail Motley:** Origin and diversification of the Malagasy spiny thicket biome

POSTER SESSION 1

Tuesday 12 December

- E1.10 Frida Johannesdottir:** Morphological adaptations of the American red squirrel to temperature across its wide geographic range
- E1.11 Dennis Baulechner:** Convergent evolution of herbivory and mandible morphology in carabids modulates phylogenetic and functional diversity
- E1.12 Thilina De Silva:** Evolution of polygyny in true weavers (subfamily Ploceinae)
- E1.13 Felix Leiva:** Differences in the respiratory response to temperature and hypoxia across four life stages of the intertidal porcelain crab *Petrolisthes laevigatus*
- E1.14 Elsa Fogelström:** Phenotypic and genotypic selection on flowering time in *Lathyrus vernus*
- E1.15 Ying Deng:** How do plants respond to nutrient fluctuations? Genetic variation, species differences and community turnover
- E1.16 Adam Bakewell:** The 'fast-slow' continuum of life histories in Orthoptera
- E1.17 Susanne Lachmuth:** The role of hybridization in the invasion success of meadow knapweed, *Centaurea x moncktonii*, in North America

Global Change Ecology

- F1.0 Jana Stallmann:** Impacts of different drought regimes on the phloem exudate composition of wheat and the performance of *Sitobion avenae*
- F1.1 Ute Schmiedel:** Climatic drivers of diversity and vegetation dynamics in an arid diversity hotspot: 15 years of annual vegetation monitoring in the Succulent Karoo of South Africa
- F1.2 Estelle Laurent:** Fragmentation limits habitat choice ability: experimental evidence in ciliate microcosms
- F1.3 Sarah Richman:** Pollinator-mediated, indirect effects of climate on plant performance in alpine communities
- F1.4 Franziska Willems:** How does forest management affect the phenology of forest understory herbs?
- F1.5 Kathryn Logan:** Environmental impacts of replacing conventionally fuelled vehicles with electric vehicles in Scotland: a university case study
- F1.6 Amy Molotoks:** Impacts of future global cropland expansion on biodiversity and carbon storage under SSP scenarios
- F1.7 Haben Blondeel:** Land-use legacies affect forest herbs under global change: a large-scaled multi-factor experiment

- F1.8 Vinicius Reis:** Extinction risk and life history traits in mammals in different scenarios of habitat loss
- F1.9 Robert Weigel:** The importance of snow cover and winter soil temperature for soil biotic activity, nutrient availability, and plant growth in temperate forest ecosystems towards the cold distribution margin of European beech
- F1.10 Luciana Jaime:** Climatic, stand and tree determinants of bark-beetle infestation in *Pinus sylvestris* populations affected by drought-driven mortality in Catalonia (NE Spain).
- F1.11 Maria Angeles Perez Navarro:** Could population position in the climatic niche explain plant community changes under extreme climatic events?
- F1.12 Jordi Margalef-Marrase:** Species climatic suitability and forest die-off across France after the 2003 heat wave
- F1.13 Marie Matoušková:** The coppice of *Quercus petraea* is less affected by water stress than high forest stand
- F1.14 Susannah Fleiss:** Sustainable oil palm in the 21st Century
- F1.15 Elina Kaarlejärvi:** Herbivores mitigate diversity loss under warming and eutrophication by influencing species losses and gains
- F1.16 Stefan Kruse:** MOVED TO AN ORAL PRESENTATION IN S6: GLOBAL CHANGE ECOLOGY
- F1.17 Mark Lee:** Forage quality declines with rising temperatures, with implications for herbivore population dynamics and enteric methane production
- F1.18 Isobel Bramer:** Recommendations for monitoring, modelling, and managing microclimates
- F1.19 Albert Vilà-Cabrera:** Population marginality and decline at the rear range-edge of *Fagus sylvatica*
- F1.20 Antonio Rodríguez Hernández:** Interactions between global change factors drive plant species richness distribution in Pyrenean grasslands of Catalonia
- F1.21 Lisanne Van Willegen:** Interaction effects of climate change and land management on the hydrology of dune slack habitat

POSTER SESSION 1

Tuesday 12 December

Soil Ecology & Plant-soil Interactions

- G1.0 Mirjam Hazenbosch:** The effect of soil status on legumes: a test of nitrogen fertilization, rhizobacterial inoculation and mycorrhizal inoculation on plant characteristics and yield.
- G1.1 Laynara Lugli:** Belowground phosphorus acquisition strategies in Central Amazonian forests
- G1.2 Mitsutoshi Tomotsune:** Response of soil respiration to biochar addition during three years in a secondary warm-temperate deciduous forest, Japan
- G1.3 Fiona Seaton:** Soil water repellency as a strategy for ecosystem resilience
- G1.4 Emily Schofield:** Timing is everything? The influence of intraspecific competition on the temporal dynamics of soil microbial community priming, nitrogen uptake and biomass accumulation.
- G1.5 Shingo Masuda:** Effects of biochar application on fine root dynamics in a *Quercus serrata* forest
- G1.6 José Van Paassen:** Upland management to improve carbon sequestration: the role of phosphorus
- G1.7 Yongjie Liu:** Root distribution responses to three-dimensional soil heterogeneity in experimental mesocosms
- G1.8 Abby Wallwork:** Linking functional diversity with soil carbon dynamics in second growth tropical forests
- G1.9 Alexander Dean:** Factors influencing the growth and survival of black polar (*populus nigra*) in Sussex
- G1.10 Alejandra Hernández Guzmán:** Soil heterogeneity under an array of tree cover in rangelands in the buffer zone of a biosphere reserve in Southern Mexico
- G1.11 Tharaniya Srikanthasamy:** Contrasted effects of grasses and trees on microbial N-cycling in an African humid savanna
- G1.12 Michiel Bortier:** Three-dimensional soil heterogeneity modulates resistance to extreme drought in experimental grassland communities
- G1.13 WITHDRAWN**
- G1.14 Radim Sarlej:** Soil pH effect on interactive controls of soil carbon sequestration in an extensively managed northern temperate grassland.
- G1.15 Ilka Schmooch:** Indicating resilience and sustainability in arable soil systems across Europe: response of the soil microbial biomass to tillage reductions in five European countries

- G1.16 Juliane Röder:** Low contribution of invertebrates to decomposition of organic matter along a tropical elevation gradient
- G1.17 Janna Barel:** Domestication effects on rhizosphere microbiome and root traits
- G1.18 Anne Van Zon:** Fluctuating soil salinity affect N:P ratios of different tropical mangrove species
- G1.19 James Edgerley:** Direct and indirect effects of drought and warming on decomposition processes in an upland grassland in the UK
- G1.20 Marta Manrubia-Freixa:** Interacting effects of plant range-expansion and drought on soil ecosystem functioning
- G1.21 Cristina Heredia-Acuna:** Root decomposition rate of four grassland species under monoculture and mixed communities.
- G1.22 H Stott:** Effects of drought and land management on grassland C and N fluxes through the plant-soil food web system – a stable isotope-in-situ labelling

Ecological Genetics and Molecular Ecology

- H1.0 Rebecca Whitla:** Appearances can be deceiving: how similar phenotypes can mask genotypic variation in marsh fritillaries
- H1.1 Michelle Davis:** Post-reintroduction population genetics of the Marsh Fritillary butterfly (*Euphydryas aurinia*)
- H1.2 Annabel Smith:** Genetic diversity responds differently to environmental variation in the native and non-native range of *Plantago lanceolata*
- H1.3 Toshifumi Minamoto:** Identifying a breeding habitat of a critically endangered fish, *Acheilognathus typus*, by combining eDNA and conventional surveys
- H1.4 Karen Cox:** Effects of a heterogeneous landscape on gene flow in a coastal natterjack toad metapopulation
- H1.5 Matthew Greenwell:** Butterfly genetics monitoring scheme: 2020 pilot study
- H1.6 Hiroki Yamanaka:** Fish larvae inside? Indirect assessment of fish larvae presence in host mussels using environmental DNA analysis.
- H1.7 Saka Yoshikawa:** The hypothetical scenario of the genetic origin of ryukyu wild boars (*Sus scrofa riukiuanus*) based on two mitochondrial and 23 nuclear markers

POSTER SESSION 1

Tuesday 12 December

- H1.8 Julie Colpitts:** Inbreeding depression in an island population of feral horses (*Equus ferus caballus*): fine-scale variation and fitness consequences
- H1.9 Ryo Ashidate:** Genetic structure analysis of Amami rabbit (*Pentalagus furnessi*) in Amami-Oshima Island based on a landscape genetics tool.
- H1.10 Nora Adam:** Functional variation in a key defense gene structures herbivore communities and alters plant performance
- H1.11 Sylvie Herrmann:** Is endogenous rhythmic growth an advantageous trait in adaptation and survival of long lived forest trees?
- H1.12 Ellen Pagel:** Keeping genetic diversity in European grasslands for the future: what is the impact of historical land use?
- H1.13 Marco Benucci:** Molecular foodwebs to investigate the impacts of invasive species on invertebrate communities in the UK
- H1.14 Alexander Wacker:** At the right time: connection between melatonin synthesis and the circadian clock in the aquatic herbivore *Daphnia*
- H1.15 Ryan Edge:** Genetic diversity of plants in differently aged restored saltmarshes
- H1.16 Nicolas Cuénin:** Estimating genetic diversity, mating systems and pollen dispersal in fragmented tree populations using multilocus genotype data: the case of *Foetidia mauritiana* (Lecythidaceae) in the Mascarene Islands

Invasive Species

- J1.0 Ayse Gül Ünlü:** Predator-prey interactions of invasive versus native lady beetle species
- J1.1 William Fincham:** Aliens in hot water: no functional redundancy between native and invasive amphipod detrital processing in a changing climate
- J1.2 Sophia Turner:** Going above and beyond: spatiotemporal patterns of exotic vegetation in a dynamic mountain ecosystem
- J1.3 Marco Brendel:** Initial advantages of being introduced are a temporary phenomenon: effects of residence time along an alien-native continuum of *Asteraceae*
- J1.4 Kate Mathers:** Predator avoidance behaviour of freshwater snails to invasive crayfish: the role of physiochemical cues
- J1.5 Ina Geedicke:** The fate of urban saltmarshes: stormwater run-off promotes exotic plant invasion and disrupts the cooccurrence of the mangrove and saltmarsh ecotone.

- J1.6 Daniel Dörler:** Underlying factors of slug distribution in Austrian gardens – can citizen science help?
- J1.7 Steffi Heinrichs:** Natural forest remnants determine native plant species diversity in a *Pinus radiata*-landscape in south central Chile
- J1.8 J-Hude Moudingo:** Non-native mangrove nypafruticans wurmb (arecaceae) ecological niche characterization in Cameroon's mangrove ecosystem and associated coastal forest
- J1.9 Leonardo Teixeira:** Functional diversity and invasive species moderate soil water quality and soil fertility in grassland mesocosms
- J1.10 Emily Waddell:** Plant community change and the invasion of fragmented tropical forests
- J1.11 Cathrine Beatty:** Substrate mediated predator-prey interactions between invasive crayfish and native and non-native amphipods
- J1.12 Vanessa Vetter:** Invasion of the legume ecosystem engineer *Lupinus nootkatensis* alters plant biodiversity and ecosystem functioning in Iceland.
- J1.13 Kristin Ludewig:** Effects of the invasive plant *Lupinus polyphyllus* on the seed bank of mountain meadows
- J1.14 Sarah Wyse:** Do regeneration traits play a role in plant invasions?
- J1.15 Daniel Montesinos:** Invasive traits on non-invasive species? Traits are always being locally selected for.

Microbial Ecology

- K1.0 Nadia Ab Razak:** Can we use endophyte and arbuscular mycorrhizal fungi to enhance rust fungus in controlling invasive species, Himalayan balsam?
- K1.1 Thomas Smith:** Metabolic rates may inevitably rise with global warming among prokaryotic microbes
- K1.2 Luis Prada-Salcedo:** How does the link between tree species richness, diversity and functional composition of soil microbial communities impact multi-functionality of different types of European forest ecosystems?
- K1.3 Jade O'Leary:** Metabolomics analyses of a community of wood-decay fungi reveal emergent properties arising from spatial heterogeneity which influence community dynamics
- K1.4 Caroline De Clerck:** Antifungal effects of volatile organic compounds emitted during infection of barley roots by fungal pathogens

POSTER SESSION 1

Tuesday 12 December

- K1.5 Emilie Macke:** Genotype-dependent gut microbiota drive zooplankton tolerance to toxic cyanobacteria
- K1.6 Holger Schäfer:** Rapid decomposition of arbuscular extraradical mycorrhizal hyphae within in-growth mesh bags in a Japanese warm-temperate Hinoki cypress stand
- K1.7 Hussein Aldosari:** Effects of diesel contamination on bacteria communities in various soil types
- K1.8 Francesca Baylis:** Producing better sports turf through soil microbial management
- K1.9 Adrienne Kerley:** Evolution of stickleback microbiomes during repeated colonisations of lake and river habitats.
- K1.10 Sarah Walkington:** Modelling the development of caste-specific gut microbiota in bumblebees
- K1.11 Marta Simões:** First insights on the filamentous fungal community at Roudsea wood bogs
- K1.12 John Thomas:** Mycorrhizal diversity in the tropical rainforest: Interactions between above and below ground diversity driven by phosphorus partitioning

People & Nature

- M1.0 Marion Mehring:** Interactions between biodiversity and demographic change: a misinterpreted relation
- M1.1 Aurelie Lacoeuilhe:** Golf for biodiversity program: a national study program for the knowledge, protection and enhancement of biodiversity in golf courses in France
- M1.2 Martin Rejžek:** To chop or not to chop? Tackling shrub encroachment by roller-chopping preserves woody plant diversity and composition in the dry subtropical forest of the Argentine Chaco
- M1.3 Mike Dodd:** Using projects on the citizen science biodiversity website *iSpot*
- M1.4 Kerstin Wiegand:** Land-use change in oil palm dominated tropical landscapes: Exploring ecological and socio-economic trade-offs with the integrated agent-based model EFForTS-ABM shows importance of price dynamics and smallholder farming efficiency
- M1.5 Elizabeth Allinson:** The role of Suitable Alternative Natural Greenspace Strategy (SANGS) in protecting high-value wildlife sites.
- M1.6 Nabaghan Ojha:** Community-based forest management – an adaptation strategy to climate change – a study of community forestry in India

- M1.7 Olivia Richardson:** Mow or not to mow? Public perception of urban roadside verge management
- M1.8 Jannik Schultner:** So close and yet so far? Benefits and costs of living close to the natural ecosystem as an Ethiopian farmer
- M1.9 Katherine Scaletta:** Exploring relationships between socio-economic factors and the natural capital of urban household gardens, and small areas of community, school and business land.
- M1.10 Mariya Ukhanova:** Balancing energy transition in Germany: how will it impact permanent grassland? A Delphi-study
- M1.11 Karsten Mody:** Replacing roadside shrubs by native herbaceous vegetation: which non-pollinator arthropod groups profit from creation of wildflower meadows in urban areas?
- M1.12 Andreea Nita:** Achieving sustainability of traditionally managed grasslands in a policy-driven management context through a social network approach
- M1.13 Sven Thiel:** Making biodiversity data in project databases publicly available – the approach of the Jena Experiment
- M1.14 Anneleen Rutten:** Using an Unmanned Aerial Vehicle (UAV) and Object Based Image Analysis (OBIA) to assess agricultural damage by wild boars (*Sus scrofa L.*) in Flanders, Belgium
- M1.15 Toos Van Noordwijk:** Freshwater and citizen science: a research hackathon on engagement and the environment. Completing a research project in a collaborative and semi-competitive workshop
- M1.16 Karin Van der Reijden:** Explaining the spatial distribution of stable fisheries hotspots for Dutch demersal fisheries using environmental factors.
- M1.17 Kirsten Henderson:** Sustainable interactions: feedbacks and concepts of human population growth and land cover change
- M1.18 Andreas Ostrowski:** Just pain no gain? Data management systems and biodiversity data
- M1.19 Jessica Fisher:** Exploring relationships between green-space use and subjective well-being in a neotropical urban environment

Species Interactions

- N1.0 Sangeetha Varma:** Facilitation or competition in plant-pollinator mutualisms? Staggered diurnal blooming period in three *Malvacean* species supports facilitation hypothesis

POSTER SESSION 1

Tuesday 12 December

- N1.1 Femke Batsleer:** Self-organisation of nest aggregates in a digger wasp: the tension between habitat suitability and parasite avoidance
- N1.2 Sandra Kehrberger:** Intra-seasonal changes of and temperature effects on mutualistic and antagonistic interactions of the early spring plant *Pulsatilla vulgaris*.
- N1.3 H          :** Field and theoretical study of the role of biotic interactions on community assemblage of nettle-feeding butterflies.
- N1.4 Juan P. Gonz         :** Unravelling seed dispersal by frugivores through fragmented landscapes
- N1.5 Jennifer Slater:** Pea aphid (*Acyrtosiphon pisum*) host plant changes across generations alters nutrient and phytohormone resource allocation in pea plants (*Pisum sativum*)
- N1.6 Anja Worrich:** Ecometabolomics to disentangle the mechanisms underlying species interactions with their biotic and abiotic environment
- N1.7 Nadine Austel:** Non-targeted metabolom profiling of green flower buds in oil seed rape: screening for resistance against the pollen beetle
- N1.8 Cong Chen:** Exposure to wind affects development of two insect herbivores and reduces predation risk
- N1.9 Samuel Dijoux:** Relative consumer body size and habitat productivities jointly drive apparent competition in a tri-trophic food web
- N1.10 Eike Lena Neuschulz:** How do biotic interactions and dispersal ability determine plant recruitment at and beyond range edges?
- N1.11 Vincent Zaninotto:** Urban impacts on the phenology of plant-pollinator interactions
- N1.12 Andrew Davis:** Evolutionary novel prey toxins limit *Harmonia axyridis* intraguild predation
- N1.13 Elisa Thebault:** Relative importance of plasticity and genetic adaptation in the short-term response of two *Ceriodaphnia* populations to fish predation
- N1.14 Koki Katsuhara:** Reproductive assurance by prior selfing facilitates the coexistence of congeneric plants under mutual reproductive interference.
- N1.15 David Boukal:** Individual ontogeny drives intraspecific allometries of feeding and metabolic rates in an ectotherm predator
- N1.16 Marianne Mugabo:** Complex interactions between resource degradation and temperature variation shape the dynamics of a host-parasitoid system
- N1.17 Peihua Zhang:** Being "rational" under attack? It's all in the roots
- N1.18 Susanne Marr:** Friend or Foe: Using Eco-Metabolomics to investigate the response of grasses and herbs to neighbourhood diversity
- N1.19 Kate Maia:** The effect of generalisation and of interaction outcomes on the robustness of plant-insect assemblages: contrasting and merging pollination and herbivory networks
- N1.20 Anna Mr        :** The friendship between predators and plants alias importance of predatory vertebrates for plant performance
- N1.21 Tuomas Kankaanp    :** Climate change rocks the balance of power between trophic levels in the high Arctic
- N1.22 Abby Gilson:** The role of detrital pathways in coastal food webs
- N1.23 Andrin D      :** Another one bites the leaf: Heterophylly of Mascarene plants as an adaptation to giant tortoise herbivory
- N1.24 Christian Ristok:** Biotic interactions affect the plant metabolome and aboveground herbivory
- N1.25 David Gilljam:** Increased risk of stored-products pest outbreaks in insect host-parasitoid systems exposed to reddened environments
- N1.26 Caroline Raymond:** Succession in presence of the invasive polychaete *Marenzelleria* spp. compared to the native clam *Macoma balthica* in the Baltic Sea
- N1.27 Samuel Green:** Colour change and camouflage in the chameleon prawn (*Hippolyte varians*)

POSTER SESSION 2

Wednesday 13 December

Agricultural Science

- A2.0 Yuki Henselek:** How pollinator diversity affects the probability distribution of pollination and of farm income
- A2.1 Ingo Grass:** Insectivorous birds disrupt biological control of cereal aphids
- A2.2 Svenja Bansch:** Competition between minor and mass-flowering crops for social bees: consequences for adapted pollination management
- A2.3 Elena Krimmer:** Do sown flower-rich fields enhance biodiversity-based ecosystem services in adjacent oilseed rape fields?
- A2.4 Arnob Chatterjee:** Pollination deficiency or pollinator inefficiency? What limits pollination in intensive agricultural landscape?
- A2.5 Anoush Ficiciyan:** Crop variety contribution to agrobiodiversity and ecosystem services in conventional and commons-based organic vegetables
- A2.6 Fabrizia Ratto:** A rapid and accessible tool to evaluate pollination services at a site level
- A2.7 Veronika Vikuk:** Infection frequencies and alkaloid content of systemic fungal grass endophytes along a land-use intensity gradient
- A2.8 Matti Pisman:** Description of landscape composition around Flemish apple orchards and its value for wild bee diversity
- A2.9 Odountan Ambaliou Olounlade:** Agroecological practices for sustainable agriculture in Benin
- A2.10 Michelle Larkin:** Results-based agri-environmental payment schemes: investigating the impacts on pollinator diversity in Ireland.
- A2.11 Kathrin Pascher:** Quantifying biodiversity change in agricultural landscapes – the Austrian monitoring program BINATS
- A2.12 Floris Dalemans:** A prediction model for the seed and oil yield of *Pongamia pinnata*
- A2.13 Clara Van Waveren:** Can we enhance landscape suitability for pollinator populations by optimising spatial design of flower strips?
- A2.14 Anna Harper:** Different Intensities of soil cultivation alter the extended phenotypes and predator dynamics of *Tenuiphantes tenuis*
- A2.15 Emma Joslin:** Enhancing pollination services in apple orchards against a backdrop of pollinator declines, can lavender and thyme provide the vital solution?

Community Ecology

- B2.0 Jakob Kühn:** Metabolomics in soil: community level lipid profiling of nematodes
- B2.1 Niry Dianzinga:** Taxonomic and functional diversity, and community composition of herbivorous thrips along elevational gradients in a tropical island.
- B2.2 Alexandre Génin:** Cooccurrence networks and plant-plant interactions along a grazing gradient in the semi-arid steppe of La Crau, France
- B2.3 Francis Mumbanza:** Liana density and diversity across different stand types of a tropical forest of the Congo
- B2.4 Simon Thorn:** Community homogenization of grasshoppers over 20 years – a functional approach
- B2.5 Gianluigi Ottaviani:** The emergence of plant modularity traits in functional and community ecology: challenges & opportunities
- B2.6 Ariel Bergamini:** Fauna Indicativa – a new tool for environmental monitoring
- B2.7 Daan Mertens:** Early season plant-insect interactions affect full-season insect community development.
- B2.8 Peter Schall:** European beech controls biodiversity in mixed forests – mixed versus pure forests of beech and conifers
- B2.9 Anne Ebeling:** Plant diversity effects on α , β , and γ diversity of invertebrates in an experimental landscape
- B2.10 Emiel De Lombaerde:** Space-for-time substitution inaccurately explains temporal variation in the abundance response of competitive understorey plant species to environmental change
- B2.11 Mariana Gliesch:** Phosphorus partitioning as a driver of plant species coexistence
- B2.12 Felix Wesener:** The ability to anticipate stress controls competitive interactions of soil fungal communities
- B2.13 Rodrigo Granjel:** Environmental determinants of the structure of species interactions: implications for biodiversity maintenance
- B2.14 Hans Van Calster:** A new method based on point-to-plant distances to record and monitor plants in herbaceous, terrestrial vegetation
- B2.15 David Frey:** Urban biodiversity at the crossroad: diversified or homogenized?

POSTER SESSION 2

Wednesday 13 December

- B2.16 Sam Perrin:** Predicting the effects of biological invasions on freshwater fish communities in the face of climate change
- B2.17 Olivia Bell:** Investigating the trophic ecology of Tasmanian predators
- B2.18 Andrea Zanetta:** Change in invertebrate taxonomic and functional community composition along an urbanization gradient
- B2.19 Marco Moretti:** Handbook of protocols for standardized measurement of terrestrial invertebrate functional traits
- B2.20 Cristina Bastias:** Species richness influences the spatial structure of European forests

Conservation Science

- C2.0 Onja Razanamaro:** Phenological, morphological and biochemical implication of the floral trait in pollination mechanism of Malagasy baobab species
- C2.1 Sara Alfino:** Exploring identification uncertainty: the impact of 'look-alike' species on the trade in Madagascar's chameleons
- C2.2 Helge Meischner:** Testing for small scale adaptation and plasticity in a drought stress experiment with *Fagus sylvatica* seedlings from contrasting habitats
- C2.3 Sophus Zu Ermgassen:** The impact of moorland rewilding on provisioning, pollination, and aesthetic services – evidence from a chronosequence in the Scottish Highlands
- C2.4 Rebecca Stone:** Spatial and temporal variation in *Sabellaria alveolata* reef condition status and associated faunal structure has consequences for targets of ecological equivalence in biodiversity offsetting.
- C2.5 Tim Kasoar:** Rewilding and the fate of HNV species: Rewetting the Peenetal
- C2.6 Jatishwor Irungbam:** Monitoring and Conservation initiative of butterflies and people's perception towards butterfly conservation in Manipur, India
- C2.7 Yoseph Araya:** A Bayesian decision making tool for ecohydrological management of floodplain meadow vegetation
- C2.8 Henrike Möhler:** Tansy ragwort (*Jacobaea vulgaris*) on extensively managed pastures – A self-regulating problem?
- C2.9 Hannah Mossman:** Is saltmarsh restoration success constrained by matching natural environments or altered succession? A test using niche models

- C2.10 Ulrich Graf:** Effects of restoration measures on bog vegetation
- C2.11 Marijke Thoonen:** Building a knowledge network for invasive knotweed control in Flanders
- C2.12 Willem Bastiaan Buddendorf:** Understanding the effects of environmental variability on the run timing of juvenile Atlantic salmon (*Salmo salar* L.) migrating from upland tributaries.
- C2.13 David Eichenberg:** sMon – analyzing trends of species data in Germany
- C2.14 Naveed Bhatti:** Developing monitoring tools for data-deficient conservation-priority lichen species
- C2.15 Franziska Peter:** Wind farms affect birds in agricultural landscapes and forests differently calling for habitat-specific studies and management practices
- C2.16 Susu Rytteri:** Using a spatially explicit movement model to predict the range expansion of a translocated Clouded Apollo butterfly population
- C2.17 Susan Jarvis:** How much bog is there in Britain?
- C2.18 Radim Matula:** Frequent fires support diversity and reduce invasibility of endemic caldén (*Prosopis caldenia* Burkart) woodlands in semi-arid Central Argentina
- C2.19 Andrea Büermann:** Natural and cultural heritage of ecosystem services: assessing long-term changes in protected areas
- C2.20 Jussi Lampinen:** The potential of power line clearings to provide habitats for grassland specialist species partly depends on local land use history and past connectivity to semi-natural grasslands
- C2.21 Ella Browning:** The efficacy of low-cost passive acoustic sensors for ecological monitoring
- C2.22 Christy Achtone Nkollo:** Potential interaction between fishery and manatee at lagoon Ndougou

Ecosystem and Functional Ecology

- D2.0 Kelly Clinton:** Linking the river with the animals in it: adding geomorphology to the river ecology tool box
- D2.1 M. Jane Bunting:** Reconstructing past land cover from pollen records: beyond the pollen diagram
- D2.2 Marta Pieristè:** UV and blue light enhance tree litter decomposition in a temperate forest by accelerating the decomposition rate
- D2.3 Cédrique Solofondranohatra:** Grass traits and species composition differentiate tapia woodlands from forest in Madagascar

POSTER SESSION 2

Wednesday 13 December

- D2.4 Bram Sercu:** How tree species identity and diversity affects light transmittance to the understory in mature temperate forests
- D2.5 Anders Kolstad:** Strong effects of cervid exclusion on multiple forest properties but limited evidence for cascading effects on soil fertility: testing network hypotheses for herbivore-ecosystem interactions
- D2.6 Océane Bartholomée:** Uncertainties in field assessment of carbon storage– towards methodological guidelines
- D2.7 Josep Ramoneda:** Linking regional and local arbuscular mycorrhizal fungal (AMF) diversity patterns to plant performance: The rooibos model case in the South African Fynbos
- D2.8 Raphael Weber:** Shaded tree seedlings save their carbon
- D2.9 Maria Majekova:** Are stressed plants less symmetric? A multi-species approach
- D2.10 WITHDRAWN**
- D2.11 Rafaella Canessa:** Leaf quality and climate effects on litter decomposition along the Chilean coastal cordillera
- D2.12 Bartosz Lysakowski:** Impact of carcasses of big mammals on freshwater ecosystems
- D2.13 Stefan Trogisch:** Diversity and stand age increase carbon storage and fluxes in subtropical forests
- D2.14 Demetrius Martins:** Whole plant nutrient and carbon associations in tropical trees
- D2.15 Adele Julier:** Variability in modern pollen rain from moist and wet tropical forest plots in Ghana, West Africa.
- D2.16 Veronika Jílková:** Wood ant nest surroundings as natural carbon gradients in forest ecosystems
- D2.17 Kate Baker:** Tropical waterfall ecology of Borneo Island
- D2.18 Sebastian Seibold:** Fungi vectored by beetles dispersing from dead wood – Let's take the beetle bus!
- D2.19 Philipp Eckerter:** Effectiveness of functional resource maps in predicting pollination and natural pest control on broad bean *Vicia faba*
- D2.20 Martin Svatek:** Effects of tree diversity, size and competition on growth in a primary tropical forest
- D2.21 Lea Heidrich:** Colour lightness of nocturnal moths responds to changes in the thermal environment along elevational and temporal scales

- D2.22 Gesine Pufal:** Slugging along – seed dispersal and predation is determined by environmental conditions, seed and slug traits.
- D2.23 Nico Koedam:** Coming of age: the dual dispersal function of Rhizophoraceae mangrove offspring
- D2.24 Marian Cabrera:** Drivers of biomass of semi-natural paramos in southern Colombia
- D2.25 Jonas Kirch:** How does silviculture affect forest structure, regeneration and dynamics?
- D2.26 Lindsay Banin:** Inter-specific and environmental variability in woody functional traits of tropical trees
- D2.27 Nils Svendsen:** Intraspecific variation in a functional trait, the oxygen consumption of *Tetrahymena* ciliates
- D2.28 Sebastian Richter:** High-resolution monitoring of bud-burst in *Fagus sylvatica* with UAVs: a pilot study in the Nationalpark Kellerwald-Edersee (Hesse, Germany)
- D2.29 Nicolas Friess:** Transient changes of biodiversity with temperate forest development
- D2.30 Glenda Mendieta-Leiva:** The minimum sampling needed for reliable estimates of epiphytic biomass in tropical montane cloud forests
- D2.31 Roman Link:** Tree height and wood density predict the shape of radial sap flow profiles in tropical dry forest species in Costa Rica
- D2.32 Bojana Ivošević:** From air and from ground: modern photogrammetry and soil analysis in assessing factors influencing the biodiversity of pollinators (Diptera: Syrphidae)
- D2.33 Julia Cooke:** Plant silicon content as a functional trait?
- D2.34 Sarab Sethi:** Fully autonomous acoustic monitoring of ecosystems

Evolutionary Ecology

- E2.0 Rubén Torices:** Neighbourhood relatedness affects allocation to pollinator attraction in the annual plant *Moricandia moricandioides*
- E2.1 Stefano Masier:** How habitat fragmentation affects eco-evolutionary dynamics in T-Urticaceae
- E2.2 Frederik Mortier:** Go where you please: how informed dispersal affects ecological specialization
- E2.3 Jasmijn Hillaert:** Optimal size distributions in spatially structured systems: linking metabolic theory with movement ecology

POSTER SESSION 2

Wednesday 13 December

- E2.4 Kseniia Kravchenko:** Changes in migratory status of bats revealed by stable isotopes.
- E2.5 Hannah Froy:** Immunosenescence drives actuarial senescence in Soay sheep
- E2.6 Abhishek Mishra:** Evolution can change the dispersal syndrome in *Drosophila melanogaster* even under controlled laboratory conditions
- E2.7 Hilke Hollens:** Pollination is not more specialised in long-spurred than in short-spurred *Diascia* species
- E2.8 Sara Tomiolo:** Does plant relatedness affect the outcome of intraspecific interactions in the annual legume *Medicago minima*?
- E2.9 Shaun Coutts:** Optimal management in the face of evolving resistance: Longer planning horizons lead to win-win scenarios
- E2.10 Allan Raffard:** Can environment hinder eco-evolutionary feedbacks? An experimental test in the European Minnows (*Phoxinus Phoxinus*)
- E2.11 Aigi Margus:** Prolonged diapause and invasion success
- E2.12 Lore Bulteel:** The potential of *Daphnia magna*-parasite coevolution to affect fundamental ecosystem functions
- E2.13 Jiao Ou:** Eco-evolutionary dynamics of plant-herbivore interactions in relation to urbanization
- E2.14 Carmen Villacañas de Castro:** Between antagonism and mutualism: how a natural enemy can shift the balance in the *Silene latifolia* – *Hadena bicruris* nursery pollination system.
- E2.15 Lizanne Janssens:** Rapid larval development under time stress reduces adult lifespan through increasing oxidative damage
- E2.16 Giannina Hattich:** Experimentally decomposing total community change into evolutionary and ecological components
- E2.17 Joost Raeymaekers:** Linking life history, spatial evolution and eco-evolutionary dynamics in stickleback species
- E2.18 Aura Raulo:** Co-variation of stress hormone profiles and gut microbial composition is linked to habitat quality in wild Siberian flying squirrels (*Pteromys volans*)

Global Change Ecology

- F2.0 David Thomson:** The ecological impacts of climate change in hot regions
- F2.1 Fiona Spooner:** Rapid warming is associated with population decline among terrestrial birds and mammals globally

- F2.2 Elvire Bestion:** Metabolic traits predict the effects of warming on phytoplankton competition
- F2.3 Jori Wefer:** Modelling food webs under increasing temperatures and varying nutrient supplies – including new results on temperature-dependent nutrient uptake by plants
- F2.4 Sten Gillner:** Responses of old-aged oaks to past climatic conditions in the World Heritage property 'Palaces and Parks of Potsdam and Berlin'
- F2.5 Jorge García Molinos:** Improving the interpretability of climate landscape metrics: an ecological risk analysis of Japan's Marine Protected Areas
- F2.6 Stefanie Boltersdorf:** Verification of atmospheric nitrogen (N) load and source shifting (2008 – 2015) with the help of lichen monitoring procedure on permanent monitoring network in North Rhine-Westphalia (NRW), Germany
- F2.7 Marcos Fernández-Martínez:** The effect of CO₂ fertilization, atmospheric deposition, and climate change in land carbon sinks
- F2.8 Jacqueline Oehri:** Landscape diversity promotes primary productivity and summer climate stability across large spatial scales
- F2.9 Yolanda Caceres:** Hotter and dryer: germination response to heat-shock and drought stress in two native mountain forest species of central Argentina.
- F2.10 Georg Niedrist:** terraXcube: an emerging infrastructure to converge chamber experiments and environmental studies in high mountain ecology
- F2.11 Nina McLean:** Global warming causes avian body mass to decline but has no apparent consequences for demography or population dynamic
- F2.12 Sinikka Robinson:** Changes in aboveground terrestrial communities along a soil temperature gradient
- F2.13 WITHDRAWN**
- F2.14 Sara Mynott:** Climate change impacts crab camouflage
- F2.15 Roland Bobbink:** Atmospheric nitrogen deposition and soil acidification: a never-ending story?
- F2.16 Cleiton Eller:** Predicting amazon forest responses to El Niño droughts with a stomatal optimization model.
- F2.17 Marie Van Dievel:** Beneficial effects of a heat wave in two damselfly species: higher growth and immune components driven by a higher food intake

POSTER SESSION 2

Wednesday 13 December

- F2.18 Selvakumar Dhandapani:** soil microbial communities and greenhouse gas emissions under different land-use types in Malaysian peatlands: implications for climate change
- F2.19 Eric Guilbert:** Species distribution modelling in Madagascar: the response of several Insects group to global warming
- F2.20 Maaike Bader:** Effects of warming and CO₂ fertilization on tropical lowland bryophytes: a rainforest field experiment
- F2.21 Amarante Vitra:** Drought impacts on plant functional and physiological traits in grasslands: a matter of timing
- F2.22 Lydia White:** Loss of consumers alters communities' ability to resist and recover from perturbations
- F2.23 Christian Schwarzer:** Glacial divergence: cryptic speciation and ecotypic differentiation in European bog-plant communities alter the effects of global change
- F2.24 Larissa Nowak:** Functional (mis)match between fleshy-fruited plants and frugivorous birds under climate change?
- F2.25 Georgina Adams:** Predicting African ecosystems under climate change

Soil Ecology and Plant-soil Interactions

- G2.0 Sarah Schwieger:** Autumnal warming does not change root phenology in two contrasting vegetation types of subarctic tundra
- G2.1 Ellen Desie:** As above, so below? Tree species conversion triggers a trophic cascade causing a regime shift in a temperate forest ecosystem.
- G2.2 Eliška Kutáková:** Interactive plant-soil feedback effects in model micro-communities
- G2.3 Viola Kurm:** Effects of soil microbial species loss on biomass and induced systemic resistance of *Arabidopsis thaliana*
- G2.4 Leigh-Anne Kemp:** Plants and arbuscular mycorrhizal fungi: Are they tolerating abiotic stresses together?
- G2.5 Robin Heinen:** Plant community composition but not plant traits determine the outcome of soil legacy effects on plants and insects
- G2.6 Aleksandra Biernaczyk:** Diversity of fungal responses to repeated heat stress
- G2.7 Johannes Heinze:** The importance of plant-soil feedbacks for plant species performance in the field

- G2.8 Laura Reinelt:** Investigating the effect of plant community and soil properties on plant trait plasticity in a calcareous grassland
- G2.9 Magdalena Steiner:** Soil microbial diversity and ecosystem functioning and services in vineyards
- G2.10 Sophie Van Rijssel:** Vital soils for sustainable agriculture: Soil community functioning in a chronosequence of organically managed farms
- G2.11 Claudia Breitzkreuz:** Impact of plant growth promoting rhizobacteria (PGPR) on stress resistance of winter wheat
- G2.12 Wei Xue:** Spatial heterogeneity in plant-soil feedbacks alters competitive interactions between two grassland plant species
- G2.13 Petr Dostál:** Vegetative reproduction rather than plant-soil feedback explains relative abundance and overyielding of plants in experimental communities
- G2.14 Roger Tang:** Assessing the use of soil trace metal content in predictive modelling for vegetation distribution.
- G2.15 Cathy Collins:** Seed pathogens as a regeneration filter in a fragmented landscape
- G2.16 Ashley Gorman:** Seed-soil adhesion: a sticky remediation for erosive soils using myxospermous weeds
- G2.17 Martine Huberty:** Plant-soil feedback affects aboveground metabolomic profiles of 12 plant species
- G2.18 Anja Vogel:** Soil history and plant history drive biodiversity–ecosystem function relationships
- G2.19 Shan Luo:** Soil biota suppress positive plant diversity effects on productivity at high but not low soil fertility
- G2.20 Rutger Wilschut:** Determining soil biotic drivers of plant performance among congeneric range-expanding and native plant species
- G2.21 Pasky Miranda:** Sieving soil, destroying diversity? the change in fungal community within crop protection product degradation studies
- G2.22 Gemma Rutten:** The role of plant-soil feedbacks in oak forests in a drier world
- G2.23 Ellen Fry:** Resilience of peatland microbial communities to drought is contingent on long-term warming and plant community composition.
- G2.24 Jennifer Rhymes:** Contrasting effects of flooding and drought on grassland soil food webs

POSTER SESSION 2

Wednesday 13 December

Behavioural Ecology

- H2.0 Islam Sobhy:** Floral nectar yeasts enhance parasitoid foraging and maintenance
- H2.1 Lucy Ryan:** Dynamic habitat selection of the European Nightjar on a peatland under active restoration.
- H2.2 Charlotte Regan:** Understanding the relationships between space use and reproduction in female St. Kilda Soay sheep
- H2.3 Dara Stanley:** Investigating sublethal pesticide effects on bumblebee behaviour and pollination services
- H2.4 Tetsuro Yoshikawa:** Does movement pattern of Asiatic black bear *Ursus thibetanus* follow Levy walk or composite Brownian walk?
- H2.5 Merlin Schaefer:** sOAR: An open-source software for modelling optimal animal life-history strategies in periodic environments
- H2.6 Doriane Muller:** Adaptive value of learning under sexual selection in changing environments.
- H2.7 Adam Fisher:** Sexual cannibalism and population viability
- H2.8 Bethany Roberts:** Exploring nest searching behaviour of queen bumblebees in Cornish gardens, and a novel detection approach
- H2.9 Emmanuelle Briolat:** Investigating variation in warning signals using predation experiments in the wild
- H2.10 Annelies Van Ginkel:** MOVED TO AN ORAL PRESENTATION IN S52: BEHAVIOURAL ECOLOGY.
- H2.11 Marwa Kavelaars:** MOVED TO AN ORAL PRESENTATION IN S63: BEHAVIOURAL ECOLOGY
- H2.12 Anastasia Roberts:** Forest management practices reduces the diversity of terrestrial organism which visit water-filled tree holes
- H2.13 Izabela Barata:** The distribution and behavior of a rare bromeliad frog species observed through camera trapping
- H2.14 Jessica Ward:** Modelling social foraging behaviours in carnivores
- H2.15 David Ott:** Re-assessing the impact of radio-transmitters on pollinator activity & movement

Macroecology and Biogeography

- J2.0 Zak Mitchell:** Linking macroecology and biomechanics in Odonata (Dragonflies): Does flight ability correlate with or explain species ranges?
- J2.1 Natalie Cooper:** Reconstructing the last known movements of one of Nature's giants
- J2.2 Marie-Bé Leduc:** Analysis of global patterns of bird and mammalian species richness to deliver remotely-sensed Essential Biodiversity Variables (RS-EBV)
- J2.3 Marlee Tucker:** A cross-species comparison of terrestrial mammal movement patterns.
- J2.4 Alice Classen:** Temperature constrains specialization in plant-pollinator networks at Mt. Kilimanjaro
- J2.5 Madli Jöks:** An individual-based computer simulation can emulate realistic plant diversity patterns in oceanic archipelagos
- J2.6 Conor Waldock:** Using geographic relationships between abundance and temperature to predict abundance change with warming in reef fish assemblages
- J2.7 Ellen Coombs:** What do cetacean stranding records tell us? A study of UK and Irish cetacean richness and diversity over the past 100 years
- J2.8 Bruno Ibañez-Erquiaga:** Biogeographical zonation of rocky intertidal communities along the coast of Peru (3.5 – 13.5° S Southeast Pacific)
- J2.9 Melinda De Jonge:** Environmentally dependent species interactions in European Species Distribution Models
- J2.10 Nuria Galiana:** The geographical variability of network structure is scale dependent
- J2.11 Alke Voskamp:** The impacts of future climate change on the world's terrestrial birds could lead to widespread community alterations
- J2.12 Alun Jones:** Unstructured data for marine biodiversity monitoring: Temporal trends in the genus *Conus* from occupancy modelling
- J2.13 Maria Sporbett:** The relationship between macroclimatic niche volume, regional niche width and local species abundance for a large number of European vascular plant species
- J2.14 Dinara Sadykova:** Identifying environmental regions for large-scale experiments
- J2.15 Lena Watermann:** Functional traits in exotic plant species along an elevational gradient in South Africa – the role of plasticity and local adaptation

POSTER SESSION 2

Wednesday 13 December

- J2.16 Mike Fowler:** The colour of environmental fluctuations driving animal population dynamics across the globe
- J2.17 Bothalage Sumudu Fernando:** Reconstructing the geographic origin of the New World jays
- J2.18 Nikolai Knapp:** Linking lidar and forest modeling to assess biomass estimation across scales and disturbance states
- J2.19 Charlie Outhwaite:** It's not all bad news: A study of UK biodiversity change of over 12,000 species from 34 taxonomic groups
- J2.20 Dmitry Schigel:** Data Openness in Ecology
- J2.21 Anna Phillips:** Effects of phylogeny and geography on ecomorphological traits in passerine bird clades

Parasites Pathogens or Wildlife Disease

- K2.0 Hamisu Isah:** Modelling the spatial dispersal of *Fascioliasis gigantica* in the Semi-Arid Ecological Zone of West Africa: A Case Study of Sokoto State, Nigeria
- K2.1 Paul George:** Prospecting for pathogens in national soil monitoring programme
- K2.2 Diana Erazo:** Deforested habitats associated with r-selected host species communities predict higher parasite maintenance in a sylvatic *Trypanosoma cruzi* system
- K2.3 Daniel Nicholson:** The ecological and morphological drivers of ectoparasite load in a tropical ectotherm.
- K2.4 Rene Heim:** Multiscale Remote Sensing of plant pathogens: detecting myrtle rust in australia
- K2.5 Suraj Dhakal:** Host life history traits in relation to different pathogen strategies
- K2.6 Kirsty Marsh:** Characterising the gut eukaryome of wild mice using 18S metabarcoding
- K2.7 Emily Matthews:** Investigating host-specificity of *Saprolegnia parasitica* isolates.
- K2.8 Alan Reynolds:** The evolution of life history traits in response to drug selection
- K2.9 Virginie Stevens:** Grassland communities under threat of multiple global change driver
- K2.10 Paula Tierney:** Parasite-mediated effects of an invasive fish on native brown trout
- K2.11 Flavia Occhibove:** An eco-epidemiological model for tick-borne diseases: which are the key parameters affecting transmission?

- K2.12 Willem Van Hoesel:** Abundance of vectors of avian malaria and parasite prevalence within the vector are influenced by different forest properties in German beech forests
- K2.13 Oluwaseun Somoye:** More is less: effect of endemic macroparasite on epidemic transmission stages
- K2.14 Michelle Gordy:** Parasitic flatworm communities are driven by host associations and environmental factors in central Alberta, Canada
- K2.15 Pierre-Alain Van Griethuysen:** An irresistible fragrance? The effect of Tobacco Rattle Virus on root volatile emissions and attractiveness to nematode vectors

Population Ecology

- M2.0 Qingmin Han:** Trade-off between vegetative and reproductive growth at shoot, branch and individual levels in masting *Fagus crenata* trees
- M2.1 Jordan Chetcuti:** Landscape connectivity effects on alpha, beta, and gamma diversity.
- M2.2 Kate Layton-Matthews:** Effects of density dependence on the population dynamics of barnacle geese in a rapidly warming high Arctic
- M2.3 Maude Baudraz:** Are plants demographic strategies more constricted at niche borders?
- M2.4 Nahaa Alotaibi:** *Zostera marina* in the Isles of Scilly: linking demography, dynamics and population genetics across space and time
- M2.5 Sonja Loetscher:** Environmental and anthropogenic determinants of the structure of Alpine marmot family groups
- M2.6 Christopher Terry:** Identifying significant trophic interaction modifications for population dynamics in ecological communities.
- M2.7 Dulce Figueroa:** Intra-individual variation in seed- and fruit- traits of *Conopholis alpine* (Orobanchaceae)
- M2.8 Steven Goossens:** How individual heterogeneity and maternal effects influence Density-dependent dispersal in the two- spotted spider mite (*Tetranychus urticae*).
- M2.9 Victor Ronget:** Variation in early condition-dependent mortality across populations of roe deer.
- M2.10 Helena Einzmann:** An unresolved contradiction: demographic patterns and metapopulation dynamics of vascular epiphytes

POSTER SESSION 2

Wednesday 13 December

- M2.11 Simon Rolph:** A neutral model for plant demography: insights into the use of stage-based demographic models for quantifying the diversity of life history strategies
- M2.12 Siti Aisyah Rahimah Bintim Saad:** Does different bait box colour effect small mammal density?
- M2.13 Irina Tatarenko:** Effect of prolonged dormancy on the population dynamics of *Fritillaria meleagris*
- M2.14 Sophie Chattington:** The effect of different parameters on life-history traits in *Trichogramma* – an extensive meta-analysis
- M2.15 Merle Bollen:** Bottleneck effects on gene drive propagation in natural populations: a modelling approach
- M2.16 Romain Richard:** Population dynamics with multiple limiting nutrients: life history mediated effects.
- M2.17 Federica Schanz:** Copper contamination affects the demography of rotifers, but rotifers do not adapt to the pollution
- M2.18 Tobias Sandner:** Competition modifies effects of stress on inbreeding depression in *Mimulus guttatus*
- M2.19 Carolina Carvalho:** Genetic consequences of seed dispersal in a heterogeneous environment mediated by defaunation of large frugivores
- M2.20 Yuval Zelnik:** How disturbances shape stability in space
- M2.21 Bárbara Carvalho:** Trait correlations from population of Scots pine as an output of coexistence mechanisms
- M2.22 Marike Louw:** Eavesdropping on endemics: Assessing the use of Acoustic Spatial Capture Recapture (aSCR) to study populations of the Cape Peninsula moss frog *Arthroleptella lightfooti*
- M2.23 Mark Greener:** How many Trinidad stream frogs (*Mannophryne trinitatis*) are there, and should they be regarded as vulnerable to extinction?
- M2.24 Rob Boyd:** Modelling mackerel using remotely-sensed estimates of food availability and temperature
- M2.25 Tatiana Chervotkina:** Chironomids (Diptera: Chironomidae) as bioindicators of water pollution of the reservoirs in Kaliningrad region

Theoretical & Computational Ecology

- N2.0 Claas-Thido Pfaff:** The Essential Annotation Schema for Ecology (EASE)

- N2.1 Severin Hauenstein:** Linking movement behaviour with habitat suitability reveals potential little owl dispersal
- N2.2 Liubov Zakharova:** Trait-based modelling as a tool for understanding community dynamics based on *Anastatica hierochuntica* communities in the Negev Desert
- N2.3 Lionel Hertzog:** Deriving patch topology in real-world settings from optimized resistance map using circuit theory and community differentiation
- N2.4 Thomas Banitz:** Coexisting in disturbed environments: how spatially structured intraspecific trait variation may foster biodiversity
- N2.5 Lisa Teckentrup:** Mammal communities under fear: perceived predation risk shapes prey diversity
- N2.6 Marco Sciaini:** nlmR: A collection of algorithms for simulating neutral landscape models with R
- N2.7 Bastian Hess:** A multifunctional, piosphere landscape generator (PioLaG) for grazing systems in southern African savannas
- N2.8 Pei-Chi Ho:** Light intensity and inorganic nutrient supply determine mixotrophy, size distribution and stoichiometry of plankton community
- N2.9 Johanes Signer:** WITHDRAWN
- N2.10 Dries Landuyt:** Process-based modelling of understorey community composition – Challenges and perspectives
- N2.11 Benjamin Rosenbaum:** Fitting dynamical population models using Bayesian inference
- N2.12 Ludmilla Figueiredo:** Mechanisms of extinction debt across ecological levels
- N2.13 Hauke Reuter:** Individual-based trophic network simulation – evolution of traits in a spatial environment
- N2.14 Ellen van Velzen:** Inducible defense destabilizes predator-prey dynamics: the importance of multiple predators
- N2.15 Hsi-Cheng Ho:** The effect of optimal foraging on food-web structure and stability
- N2.16 Silke Van Daalen:** Continuous-time Markov chains with rewards and stochastic population growth
- N2.17 Felix Moerman:** Modelling reproductive strategies during range expansion: rapid evolution of recombination rate at the expansion front
- N2.18 Laura Lee:** How does body shape affect growth during ontogeny?

POSTER SESSION 2

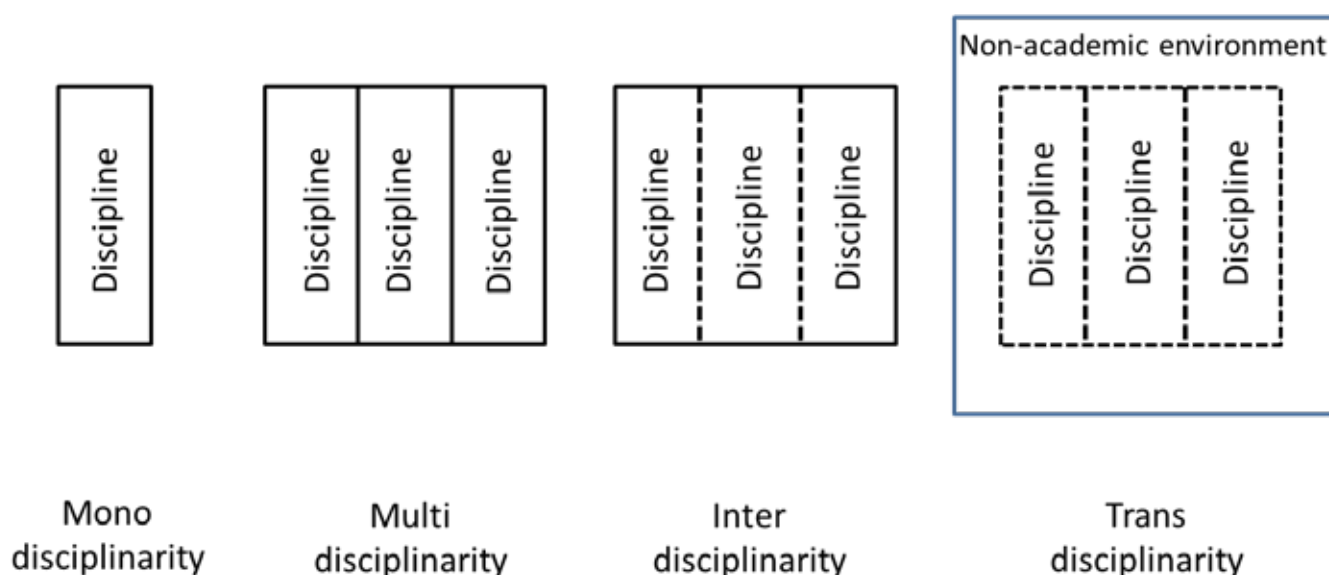
Wednesday 13 December

- N2.19 Michael Stevens:** Can we utilise “absences” in data to better locate the source of an invasive species using Geographic Profiling?
 - N2.20 Ludwig Leidinger:** Mechanistic simulation models for island biodiversity
 - N2.21 Sumithra Sankaran:** Patchiness and scale-free correlations: characterising criticality in ecosystems
 - N2.22 Stephanie Kramer-Schadt:** The fourth dimension in animal movement – the effect of temporal resolution on the predictive power of movement models
 - N2.23 Johanna Häussler:** Effects of landscape configuration and habitat fragmentation on the persistence and diversity of multi-trophic communities
 - N2.24 Sophia Wassermann:** Modelling the shoaling behaviour of Atlantic mackerel to improve stock assessment methods
 - N2.25 Luke Evans:** Towards a mechanistic understanding of movement ecology in butterflies
 - N2.26 William Kay:** From brick to bullet: using computational fluid dynamics to design bio-logging tags with minimal drag.
-

ECOLOGY ACROSS BORDERS: PEOPLE'S CHOICE AWARD

Practicing science across country borders is now common place. But working across disciplinary borders deserves further development.

The EAB societies wish to express their appreciation for scientists that use and promote inter- and trans-disciplinary approaches in science. We want to promote the joint involvement and cooperation of more than just the classical ecological disciplines in science (inter); and also involve the non-academic societal environment in science (trans), which can add significant value. At this meeting, we will therefore award the scientists that show the best use of inter- and trans-disciplinary approaches in their work, and demonstrate the value of this approach, through a special Ecology Across Borders Poster Prize.



How to take part

In your name badge you will find a ballot paper. Please clearly write the full number and name of presenter that you wish to be considered for the prize and put this into the ballot box at the poster table located in the main poster hall, Pedro de Gante. The winner will be announced at the closing ceremony.

NOTES

A series of horizontal dotted lines for taking notes.

NOTES

Handwriting practice lines consisting of 20 horizontal dotted lines.

INDEX OF PRESENTERS

NAME

DETAILS

AAVIK, T.	S1, 12:30
AB RAZAK, N.	Poster K1.0
ADAM, N.	Poster H1.10
ADAMS, G.	Poster F2.25
ADL, S.	S30, 11:00
AIVELO, T.	S65, 13:15
AKIYAMA, Y.	Poster C1.11
ALBERT, C.	S1, 11:30
ALBERTI, M.	TT12, 12:30
ALBON, S.	S50, 10:30
ALBRECHT, H.	S2, 12:30
ALBRECHT, J.	S10, 11:15
ALDOSARI, H.	Poster K1.7
ALFINO, S.	Poster C2.1
ALISON, J.	S1, 12:45
ALLAN, E.	S56, 14:15
ALLEN, L.	Poster D1.19
ALLHOFF, K.	S39, 16:00
ALLINSON, E.	Poster M1.5
ALOTAIBI, N.	Poster M2.4
ALRASHIDI, M.	S63, 12:30
ANDERSEN, K.	S26, 12:00
APFELBECK, B.	S18, 15:30
ARAYA, Y.	Poster C2.7
ARBIEU, U.	S64, 13:00
ARCHER, L.	S50, 10:45
ARFIN KHAN, M.A.S.	S28, 11:30
ARMBRUSTER, S.	TT13, 13:45
ARNOLDI, J-F.	S43, 16:45
ARTS, K.	TT8, 15:45
ASHIDATE, R.	Poster H1.9
AUBRY, L.	S5, 11:45
AUDUSSEAU, H.	Poster N1.3
AUER, S.	TT6, 12:15
AUGUST, T.	S9, 12:15
AUSTEL, N.	Poster N1.7
AUSTIN, A.	S26, 11:00
AYOUB, T.	Poster D1.10
BADER, M.	Poster F2.20
BAHN, M.	S28, 11:00
BAKER, C.	S11, 12:30
BAKER, K.	Poster D2.17
BAKEWELL, A.	Poster E1.16
BAKKER, L.	S49, 10:45
BALDOCK, K.	Poster B1.10
BALESTRIN, D.	Poster B1.0
BÁLINT, M.	S47, 10:45
BANIN, L.	Poster D2.26
BANITZ, T.	Poster N2.4
BANKS-LEITE, C.	S47, 11:30
BÄNSCH, S.	Poster A2.2
BARATA, I.	Poster H2.13
BAREL, J.	Poster G1.17

NAME

DETAILS

BARNES, A.	TT5, 12:30
BARRAQUAND, F.	Poster B1.11
BAR-SHAMUEL, N.	S53, 10:45
BARTHOLOMEE, O.	Poster D2.6
BARTLETT, L.	S65, 13:45
BARTOMEUS, I.	TT5, 12:45
BARUAH, G.	S5, 12:30
BASTIAS, C.	Poster B2.20
BATARY, P.	S35, 16:15
BATLLORI, E.	S39, 15:15
BATSLEER, F.	Poster N1.1
BAUDRAZ, M.	Poster M2.3
BAULECHNER, D.	Poster E1.11
BAYLIS, F.	Poster K1.8
BEATTY, C.	Poster J1.11
BEBBER, D.	Poster A1.13
BECKERMAN, A.	S50, 11:30
BEECHLER, B.	S65, 14:15
BELL, O.	Poster B2.17
BENNETT, A.	S53, 09:45
BENNETT, J.	TT13, 13:15
BENUCCI, M.	Poster H1.13
BERAUER, B.	Poster D1.17
BERENBRINK, M.	TT6, 12:45
BERG, M.	TT4, 15:15
BERGAMINI, A.	Poster B2.6
BERGAMO, P.	S63, 14:00
BERGMANN, J.	S8, 12:45
BERTOLINI, C.	Poster B1.5
BERTRAND, C.	S21, 17:00
BESTION, E.	Poster F2.2
BHATTI, N.	Poster C2.14
BIERBACH, D.	S52, 10:15
BIERE, A.	S53, 10:30
BIERNACZYK, A.	Poster G2.6
BINTI MD SAAD, S.A.R.	Poster M2.12
BIRKETT, A.	S6, 11:30
BIRNBAUM, C.	S62, 14:00
BISCHOFF, A.	S35, 15:45
BISSCHOP, K.	Poster E1.1
BJORKMAN, A.	TT3, 16:30
BLONDEEL, H.	Poster F1.7
BLÜTHGEN, N.	S57, 13:45
BOAKES, E.	S13, 16:30
BOBBINK, R.	Poster F2.15
BOCEDI, G.	S50, 10:00
BOCH, S.	S57, 13:00
BOETS, P.	S11, 11:30
BOETZL, F.	S35, 15:30
BOEVE-DE PAUW, J.	Poster C1.16
BOGNER, F.	S9, 11:15
BOHK-EWALD, C.	S40, 15:00
BOHN, F.	S60, 14:00

INDEX OF PRESENTERS

NAME

DETAILS

BOKHORST, S.	TT11, 09:45
BOLLEN, M.	Poster M2.15
BOLTERSDF, S.	Poster F2.6
BONN, A.	S12, 16:45
BONTE, D.	TT1, 11:15
BONTE, D.	TT10, 11:00
BORER, E.	TT3, 16:45
BORTIER, M.	Poster G1.12
BOSCO, L.	Poster C1.0
BOUCHER, D.	S2, 12:15
BOUKAL, D.	Poster N1.15
BOULT, V.	S52, 11:00
BOWLER, D.	S13, 17:00
BOYD, R.	Poster M2.24
BRACIS, C.	S52, 11:15
BRAMER, I.	Poster F1.18
BRANS, K.	TT12, 13:30
BRASCHLER, B.	S13, 15:30
BRECHET, L.	S26, 11:30
BREITKREUZ, C.	Poster G2.11
BRENDEL, M.	Poster J1.3
BRIERS, R.	S54, 11:30
BRINCK, K.	S43, 15:30
BRIOLAT, E.	Poster H2.9
BROADBENT, A.	S28, 12:30
BROSE, U.	S52, 09:45
BROWN, P.	S33, 12:45
BROWNING, E.	Poster C2.21
BROYD, R.	Poster D1.16
BRUELHEIDE, H.	S56, 12:30
BRUNNER, F.	S51, 10:00
BUCHER, R.	S34, 16:30
BUCHHOLZ, Y.	S41, 15:30
BUCHMANN, C.	S58, 14:00
BUDDENDORF, W.B.	Poster C2.12
BUENO, A.	S33, 12:00
BÜERMANN, A.	Poster C2.19
BUJAN, J.	S14, 15:15
BULLOCK, J.	S29, 11:00
BULTEEL, L.	Poster E2.12
BUNTING, M.J.	Poster D2.1
BURSLEM, D.	S15, 15:15
BUSCOT, F.	S30, 12:45
CABRERA, M.	Poster D2.24
CACERES, Y.	Poster F2.9
CADOTTE, M.	S45, 11:30
CALF, O.	TT9, 10:30
CALMEYN, A.	Poster D1.13
CANESSA, R.	Poster D2.11
CAPELLINI, I.	S7, 11:15
CAPPELLI, S.	Poster D1.14
CARRASCO, L.	Poster C1.28
CARVALHO, B.	Poster M2.21

NAME

DETAILS

CARVALHO, C.	Poster M2.19
CARVALHO, F.	S56, 13:15
CASWELL, H.	S55, 12:30
CAZELLES, K.	S48, 10:45
CERON-MARTINEZ, G.	Poster B1.3
CEULEMANS, R.	S43, 16:00
CHADWICK, D.	S11, 12:45
CHAKRABARTI, S.	S7, 12:00
CHALMANDRIER, L.	S36, 16:30
CHATTERJEE, A.	Poster A2.4
CHATTINGTON, S.	Poster M2.14
CHAWAKA, S.	S15, 16:45
CHEN, C.	Poster N1.8
CHEN, H.	Poster D1.8
CHEN, Y.	S36, 15:45
CHEPTOU, P-O.	TT12, 13:00
CHERVOTKINA, T.	Poster M2.25
CHETCUTI, J.	Poster M2.1
CHILDS, D.	S51, 09:45
CHOMEL, M.	S41, 15:00
CIERAAD, E.	S46, 09:45
CLAPPE, S.	S14, 16:00
CLASSEN, A.	Poster J2.4
CLINTON, K.	Poster D2.0
CLIQUET, A.	S12, 15:15
COLEMAN, R.	S7, 13:00
COLLINS, C.	Poster G2.15
COLPITTS, J.	Poster H1.8
CONRADI, T.	S59, 13:15
COOKE, J.	Poster D2.33
COOMBS, E.	Poster J2.7
COOPER, N.	Poster J2.1
CORDERO, I.	S60, 12:30
COSTANTINI, D.	S18, 15:15
COTE, J.	TT1, 12:30
COTTON, A.	S30, 11:15
COUSINS, S.	S58, 14:15
COUSSEAU, L.	S7, 12:15
COUTTS, S.	Poster E2.9
COUX, C.	TT5, 11:30
COX, K.	Poster H1.4
CRAWFORD, M.	Poster B1.16
CREER, S.	S20, 15:45
CRITCHLEY, E.	S34, 16:00
CROUZAT, E.	S31, 12:45
CUENIN, N.	Poster H1.16
DAHIREL, M.	TT12, 14:15
DAINESE, M.	Poster A1.9
DAKOS, V.	S60, 13:15
DALEMANS, F.	Poster A2.12
DALSGAARD, B.	S21, 15:45
DANET, A.	S57, 12:45
DANTAS DE PAULA, M.	S4, 12:45

INDEX OF PRESENTERS

NAME

DETAILS

DASKALOVA, G.	S13, 16:00
DAVID, A.	TT9, 11:15
DAVIES, A.	Poster D1.33
DAVIS, A.	Poster N1.12
DAVIS, M.	S27, 11:00
DAVIS, M.	Poster H1.1
DAWSON, S.	Poster C1.4
DE BRUYN, L.	S9, 12:30
DE CLERCK, C.	Poster K1.4
DE DEYN, G.	TT4, 16:30
DE FRENNE, P.	TT3, 16:15
DE GRUYTER, J.	S8, 12:00
DE JAGER, M.	S38, 16:15
DE JONGE, M.	Poster J2.9
DE KROON, H.	S15, 15:45
DE LAENDER, F.	S49, 09:45
DE LANGE, M.	TT2, 12:30
DE LOMBAERDE, E.	Poster B2.10
DE MANINCOR, N.	S10, 11:45
DE SILVA, T.	Poster E1.12
DE SMEDT, P.	S29, 12:00
DEAN, A.	Poster G1.9
DEBELJAK, M.	S35, 16:45
DECAESTECKER, E.	S65, 12:30
DEERE, J.	S29, 11:30
DEGERICKX, J.	Poster D1.38
DEHLING, M.	S16, 16:30
DEJID, N.	S1, 12:15
DELORY, B.	S3, 12:30
DENG, Y.	Poster E1.15
DENNING, K.	S14, 16:15
DESIE, E.	Poster G2.1
DHAKAL, S.	Poster K2.5
DHANDAPANI, S.	Poster F2.18
DHANJAL-ADAMS, K.	S52, 10:45
DIANZINGA, N.	Poster B2.1
DIEKMANN, M.	TT3, 15:15
DIETZ, S.	TT9, 11:00
DIGGELEN, R.	S23, 12:15
DIJOUX, S.	Poster N1.9
DILEO, M.	S20, 16:30
DODD, M.	Poster M1.3
DOMÍNGUEZ-BEGINES, J.	S41, 16:30
D'ONOFRIO, D.	S59, 14:15
DÖRFLER, I.	Poster C1.5
DÖRLER, D.	Poster J1.6
DORMANN, C.	S55, 14:15
DORRESTEIJN, I.	TT8, 15:30
DOSTÁL, P.	Poster G2.13
DOWNING, A.	TT2, 11:45
DUMEIER, A.	Poster B1.13
DURHAM, I.	S51, 10:30
DÜRST, A.	Poster N1.23

NAME

DETAILS

EBELING, A.	Poster B2.9
ECKER, K.	S34, 16:15
ECKERTER, P.	Poster D2.19
EDGAR, M.J.	Poster A1.17
EDGE, R.	Poster H1.15
EDGERLEY, J.	Poster G1.19
EERAERTS, M.	S61, 13:45
EGARTER VIGL, L.	S31, 11:15
EGLI, L.	S55, 13:15
EHRLEN, J.	S50, 09:45
EICHENBERG, D.	Poster C2.13
EINZMANN, H.	Poster M2.10
ELDERD, B.	S65, 14:00
ELLER, C.	Poster F2.16
ELLERS, J.	TT6, 11:30
ELWIN, A.	Poster D1.36
EMMETT, B.	S19, 15:15
ENGLISH, H.	S52, 10:30
ENS, B.	Poster C1.19
EPP, L.	S20, 15:30
ERAZO, D.	Poster K2.2
ETHERINGTON, T.	S11, 12:00
EVANS, L.	Poster N2.25
EYRES, A.	S42, 16:15
EZARD, T.	S5, 11:15
FARWIG, N.	Poster C1.6
FEILHAUER, H.	TT7, 15:30
FELIPE-LUCIA, M.	Poster D1.15
FELTER, B.	Poster C1.27
FERLIAN, O.	S19, 16:30
FERNÁNDEZ-MARTÍNEZ, M.	Poster F2.7
FERNANDO, B.S.	Poster J2.17
FICICIYAN, A.	Poster A2.5
FIEDLER, S.	S4, 12:30
FIGUEIREDO, L.	Poster N2.12
FIGUEROA, D.	Poster M2.7
FINAN, J.	Poster C1.20
FINCHAM, W.	Poster J1.1
FINK, S.	S34, 15:30
FIRN, J.	S45, 09:45
FISCHER, C.	S35, 15:15
FISCHER, F.	S32, 11:15
FISCHER, M.	S37, 15:00
FISCHER, R.	S32, 11:45
FISHER, A.	Poster H2.7
FISHER, J.	Poster M1.19
FLEISS, S.	Poster F1.14
FOGELSTRÖM, E.	Poster E1.14
FONTANA, S.	S45, 11:15
FOODY, G.	TT7, 15:00
FOSTER, B.	S47, 09:45
FOWLER, M.	Poster J2.16
FRANCIS, F.	TT9, 10:15

INDEX OF PRESENTERS

NAME

DETAILS

FRANK, B.	S1, 11:15
FREITAG, M.	Poster B1.4
FREY, D.	Poster B2.15
FRIESS, N.	Poster D2.29
FRITZ, S.	S21, 15:15
FRONHOFER, E.	TT1, 11:45
FROST, C.	S33, 12:30
FROY, H.	Poster E2.5
FRY, E.	Poster G2.23
FUCHS, B.	S24, 12:30
FUKASAWA, Y.	S41, 16:15
FUNG, C.	S11, 12:15
GAEDKE, U.	S57, 14:15
GAGGINI, L.	S33, 11:45
GALIANA, N.	Poster J2.10
GARCÍA MOLINOS, J.	Poster F2.5
GARCIA, C.	S60, 13:45
GARCÍA, D.	S24, 11:00
GARCÍA, F.	S49, 10:15
GARCÍA-CALLEJAS, D.	S58, 13:15
GARNIER, J.	Poster C1.1
GECHELE, L.	S44, 15:30
GEEDICKE, I.	Poster J1.5
GEHRMANN, F.	S46, 10:30
GENIN, A.	Poster B2.2
GEORGE, P.	Poster K2.1
GERSTNER, K.	S36, 16:45
GESCHE, B-W.	TT11, 10:45
GESLIN, B.	S62, 12:45
GIANUCA, A.	S36, 16:00
GIAVI, S.	Poster B1.22
GIBSON-FORTY, E.	S38, 16:00
GIFFARD, B.	S61, 13:30
GILING, D.	TT5, 11:45
GILLINGHAM, P.	S39, 16:30
GILLJAM, D.	Poster N1.25
GILLNER, S.	Poster F2.4
GILSON, A.	Poster N1.22
GLIESCH, M.	Poster B2.11
GOLDENBERG, J.	Poster E1.8
GOLDING, N.	S55, 13:30
GOLDMANN, K.	S22, 15:45
GONZALEZ SUAREZ, M.	S59, 12:45
GONZÁLEZ-VARO, J.P.	Poster N1.4
GOOSSENS, S.	Poster M2.8
GORDY, M.	Poster K2.14
GORMAN, A.	Poster G2.16
GOSLING, W.	S17, 15:15
GOVAERT, L.	TT12, 14:00
GRACE, M.	S34, 15:00
GRAF, U.	Poster C2.10
GRANJEL, R.	Poster B2.13
GRAS, P.	S44, 15:45

NAME

DETAILS

GRASS, I.	Poster A2.1
GRAVEL, D.	TT5, 11:00
GRAY, J.	Poster C1.7
GREEN, S.	Poster N1.27
GREENER, M.	Poster M2.23
GREENWELL, M.	Poster H1.5
GREISER, C.	S42, 15:45
GRUNTMAN, M.	S38, 16:30
GSELL, A.	S65, 13:00
GUILBERT, E.	Poster F2.19
GUIMARAES-STEINICKE, C.	S16, 16:15
HABEL, J.	S13, 16:15
HAIDER, S.	S62, 12:30
HAILS, R.	TT2, 12:15
HAJDUK, G.	S7, 11:45
HAN, Q.	Poster M2.0
HANSEN, B.	S51, 11:00
HAPPE, A-K.	S61, 13:15
HARFOOT, M.	TT10, 10:30
HARPER, A.	Poster A2.14
HARPER, L.	S57, 14:00
HARRIS, J.	S23, 12:45
HARTIG, F.	S55, 13:00
HARZER, R.	S5, 12:15
HASS, A.	Poster A1.8
HASSALL, R.	S65, 12:45
HATTICH, G.	Poster E2.16
HAUENSTEIN, S.	Poster N2.1
HÄUSSLER, J.	Poster N2.23
HAVRANEK, C.	Poster A1.0
HAYASAKA, D.	Poster A1.10
HAZENBOSCH, M.	Poster G1.0
HEDLUND, K.	TT4, 17:00
HEDWALL, P-O.	S49, 11:15
HEER, K.	S20, 16:00
HEGER, T.	S4, 11:30
HEIDRICH, L.	Poster D2.21
HEIM, R.	Poster D1.7
HEIM, R.	Poster K2.4
HEIM, W.	Poster C1.10
HEINEN, R.	Poster G2.5
HEINRICHS, S.	Poster J1.7
HEINZE, J.	Poster G2.7
HEJNOWICZ, A.	S2, 11:45
HENDERSON, K.	Poster M1.17
HENDRICKX, F.	S20, 17:00
HENRY, H.	TT11, 10:15
HENSELEK, Y.	Poster A2.0
HERBERICH, M.	S25, 11:30
HERDE, A.	S63, 14:15
HEREDIA-ACUNA, C.	Poster G1.21
HERNÁNDEZ GUZMÁN, A.	Poster G1.10
HERRMANN, S.	Poster H1.11

INDEX OF PRESENTERS

NAME

DETAILS

HERTZOG, L.	Poster N2.3
HESS, B.	Poster N2.7
HETZER, J.	S32, 11:30
HIGGS, E.	S23, 11:00
HILLAERT, J.	Poster E2.3
HILTBRUNNER, E.	S28, 12:45
HO, H-C.	Poster N2.15
HO, P-C.	Poster N2.8
HOCH, G.	S39, 15:30
HOCK, M.	S62, 13:30
HODSON, M.	S19, 15:30
HOF, C.	S17, 16:00
HOFFMANN, H.	Poster C1.8
HOHLFELD, S.	S43, 16:15
HOLLENS, H.	Poster E2.7
HONDA, A.	Poster D1.20
HOOFMAN, D.	S29, 12:45
HORCICKOVÁ, E.	S54, 10:15
HORITA, J.	S5, 11:30
HOUWENHUYSE, S.	Poster E1.4
HOWARD, C.	S42, 15:00
HOWE, C.	S31, 11:00
HOWELLS, R.	S46, 11:00
HØYE, T.	TT13, 13:30
HSING, P-Y.	S9, 11:45
HUANG, L.	S58, 13:00
HUANG, Y.	S36, 15:30
HUBERTY, M.	Poster G2.17
HÜLSMANN, L.	S40, 16:30
HUMBERT, J-Y.	Poster C1.13
HUTH, A.	Poster B1.21
HYLANDER, K.	S42, 16:45
IBÁÑEZ-ERQUIAGA, B.	Poster J2.8
IRUNGBAM, J.	Poster C2.6
ISAAC, N.	S59, 12:30
ISAH, H.	Poster K2.0
ISSAR, S.	Poster E1.7
IVO_EVL, B.	Poster D2.32
JACKSON, M.	TT5, 12:15
JACKSON, O.	S19, 16:45
JACOB, S.	S38, 15:30
JAIME, L.	Poster F1.10
JAMES, T.	Poster C1.24
JANDOVÁ, K.	Poster D1.21
JANOVSKÝ, Z.	S10, 12:15
JANSSSEN, S.	S40, 16:15
JANSSSENS, L.	Poster E2.15
JARVIS, S.	Poster C2.17
JAUKER, F.	S10, 12:00
JAWOREK, J.	Poster D1.23
JAWORSKI, C.	S27, 12:30
JELIAZKOV, A.	S1, 11:45
JENOUVRIER, S.	S5, 12:45

NAME

DETAILS

JÍLKOVÁ, V.	Poster D2.16
JINFENG, J.	Poster B1.9
JOCHUM, M.	S37, 15:15
JOHANNESDOTTIR, F.	Poster E1.10
JOHN, E.	S60, 13:00
JOHNSON, C.	S46, 10:45
JOHNSTON, A.	S30, 12:30
JÓKS, M.	Poster J2.5
JONES, A.	S28, 12:00
JONES, A.	Poster J2.12
JONES, F.	S59, 13:30
JOSCHINSKI, J.	S46, 11:30
JOSLIN, E.	Poster A2.15
JULIER, A.	Poster D2.15
JUNKER, R.	S25, 11:00
KAARLEJÄRVI, E.	Poster F1.15
KABEYA, D.	Poster D1.2
KAISER, A.	S7, 12:30
KAISER-BUNBURY, C.	S54, 11:00
KALINKAT, G.	S59, 14:00
KALWIJ, J.	S42, 16:30
KANKAANPÄÄ, T.	Poster N1.21
KARDOL, P.	S16, 15:30
KARGER, D.	S42, 15:15
KASOAR, T.	Poster C2.5
KATSUHARA, K.	Poster N1.14
KATTGE, J.	S45, 10:00
KATTWINKEL, M.	S55, 12:45
KATZ, O.	S38, 16:45
KAVELAARS, M.	S52, 10:00
KAY, W.	Poster N2.26
KEFI, S.	TT10, 11:15
KEHRBERGER, S.	Poster N1.2
KEMP, L-A.	Poster G2.4
KENTIE, R.	S51, 10:45
KEOGAN, K.	S59, 13:00
KERDRAON, D.	S19, 16:15
KERLEY, A.	Poster K1.9
KERVROEDAN, L.	S45, 10:15
KEUPER, F.	S19, 17:00
KIRBY, K.	S23, 12:00
KIRCH, J.	Poster D2.25
KIRKPATRICK, L.	S44, 15:15
KLAPWIJK, M.	S53, 10:15
KLAUS, V.	S31, 12:15
KLAUSCHIES, T.	S43, 15:45
KLIMESOVA, J.	S15, 16:00
KLINGER, Y.	S62, 13:00
KNAPP, N.	Poster J2.18
KNOWLES, S.	S22, 17:00
KOEDAM, N.	Poster D2.23
KOLB, S.	Poster C1.31
KOLLMANN, J.	S11, 13:00

INDEX OF PRESENTERS

NAME

DETAILS

KOLSTAD, A.	Poster D2.5
KONECNA, M.	Poster B1.18
KÖNIG, S.	S56, 13:45
KOONS, D.	S40, 15:15
KOOREM, K.	S6, 11:45
KORELL, L.	S49, 10:00
KORICHEVA, J.	S36, 15:00
KÖRNER, C.	S26, 11:15
KOTOWSKA, M.	S45, 11:00
KOWAL, J.	S8, 13:00
KRAB, E.	TT11, 11:15
KRAGH, G.	S64, 12:45
KRAMER-SCHADT, S.	Poster N2.22
KRATINA, P.	S25, 11:45
KRATSCHMER, S.	S35, 16:30
KRAVCHENKO, K.	Poster E2.4
KREYLING, J.	S4, 11:15
KRIMMER, E.	Poster A2.3
KRUSE, S.	S6, 12:00
KUEHN, I.	S62, 14:15
KÜHN, J.	Poster B2.0
KUMAR, A.	S8, 12:30
KURM, V.	Poster G2.3
KU_ÁKOVÁ, E.	Poster G2.2
KVASNICA, J.	Poster D1.32
LACHMUTH, S.	Poster E1.17
LACOEUILHE, A.	Poster M1.1
LACROIX, G.	S21, 15:30
LAHA, S.	Poster A1.2
LAKOVIC, M.	S29, 11:15
LAMBIN, X.	S44, 15:00
LAMPINEN, J.	Poster C2.20
LANDUYT, D.	Poster N2.10
LANGE, J.	S6, 12:30
LANGE, M.	S26, 11:45
LARKIN, M.	Poster A2.10
LAURENT, E.	Poster F1.2
LAVALLEE, J.	S30, 12:00
LAVELLE, A.	Poster D1.39
LAVOREL, S.	S16, 15:15
LAW, A.	S14, 17:00
LAWSON, C.	S51, 10:15
LAWSON, C.	Poster B1.15
LAYTON-MATTHEWS, K.	Poster M2.2
LAZARO, A.	TT13, 14:15
LE MOULLEC, M.	S51, 11:15
LE PROVOST, G.	S15, 16:15
LE SQUIN, A.	S42, 15:30
LEDUC, M-B.	Poster J2.2
LEE, L.	Poster N2.18
LEE, M.	Poster F1.17
LEHMANN, L.	Poster C1.15
LEHMANN, S.	S3, 11:45

NAME

DETAILS

LEIDINGER, J.	S37, 16:00
LEIDINGER, L.	Poster N2.20
LEIGHTON, G.	S27, 11:30
LEITÃO, P.	Poster C1.30
LEIVA, F.	Poster E1.13
LENZI, O.	S40, 15:45
LEPKOVÁ, B.	S24, 11:45
LEVINE, N.	S24, 11:30
LIANG, Y.	S42, 16:00
LIBRA, M.	Poster B1.12
LIBRÁN EMBID, F.	Poster B1.19
LINK, R.	Poster D2.31
LISNER, A.	Poster B1.1
LIU, X.	S14, 15:45
LIU, Y.	Poster G1.7
LLORET, F.	S60, 12:45
LOETSCHER, S.	Poster M2.5
LOGAN, K.	Poster F1.5
LOHMANN, D.	S43, 15:15
LONG, P.	S31, 11:45
LORI, M.	TT4, 16:15
LORIMER, J.	TT8, 16:45
LOUVRIER, J.	Poster C1.2
LOUW, M.	Poster M2.22
LOW-DECARIE, E.	S22, 16:45
LUDEWIG, K.	Poster J1.13
LUGLI, L.	Poster G1.1
LUKAS, J.	S63, 13:15
LUO, S.	Poster G2.19
LUTERMANN, H.	S65, 13:30
LYSAKOWSKI, B.	Poster D2.12
MA, H.	S41, 16:00
MA, K.	S48, 11:30
MA, S.	S17, 15:45
MAAROUFI, N.	S19, 15:45
MACGREGOR, C.	S10, 12:45
MACIVOR, S.	S36, 15:15
MACKE, E.	Poster K1.5
MAES, D.	S6, 13:00
MAIA, K.	Poster N1.19
MAJEKOVA, M.	Poster D2.9
MAJUMDER, S.	S43, 16:30
MALCICKA, M.	Poster E1.2
MALYSHEV, A.	S46, 10:00
MANCINI, F.	S31, 12:00
MANNING, P.	S16, 17:00
MÄNNISTÖ, M.	TT11, 11:00
MANRUBIA-FREIXA, M.	Poster G1.20
MARCONI, V.	S34, 16:45
MARGALEF-MARRASE, J.	Poster F1.12
MARGUS, A.	Poster E2.11
MARIAN, F.	S30, 12:15
MARR, S.	Poster N1.18

INDEX OF PRESENTERS

NAME	DETAILS
MARSH, K.	Poster K2.6
MARTINKOVA, J.	S45, 10:45
MARTINS DA SILVA, P.	TT4, 16:45
MARTINS, D.	Poster D2.14
MARZETZ, V.	Poster D1.25
MASIER, S.	Poster E2.1
MA_KOVA, T.	Poster D1.12
MASON, T.	S12, 15:30
MASSOL, F.	S38, 15:15
MASUDA, S.	Poster G1.5
MATHERS, K.	Poster J1.4
MATOU KOVÁ, M.	Poster F1.13
MATTHEWS, E.	Poster K2.7
MATTHIES, D.	S53, 11:30
MATULA, R.	Poster C2.18
MAYR, A.	S48, 10:30
MCCLEAN, D.	S25, 12:30
MCLEAN, N.	Poster F2.11
MCMAHON, S.	S60, 14:15
MCMICHAEL, C.	S15, 15:30
MEHRING, M.	Poster M1.0
MEIER, I.	TT9, 10:45
MEIMBERG, H.	S20, 15:15
MEISCHNER, H.	Poster C2.2
MELLIGER, R.	S37, 15:30
MELLIN, C.	S39, 16:45
MENDEZ, V.	S29, 11:45
MENDIETA-LEIVA, G.	Poster D2.30
MENSINK, P.	S7, 11:30
MENZEL, R.	S30, 11:30
MERCKX, T.	TT12, 13:45
MERGEAY, J.	S12, 15:45
MERGES, D.	S41, 15:15
MERTENS, D.	Poster B2.7
MESTRE, L.	S14, 15:30
METCALF, C.J.	S18, 16:45
METZ, J.	S51, 11:30
MEYER, M.	Poster B1.20
MEYER, S.	S24, 12:15
MILLA, R.	S27, 11:45
MILLS, D.	S33, 12:15
MILOTIC, T.	S56, 13:30
MIMET, A.	S14, 16:30
MINAMOTO, T.	Poster H1.3
MINDEN, V.	S45, 10:30
MIRANDA, P.	Poster G2.21
MISHRA, A.	Poster E2.6
MITCHELL, R.	S33, 11:30
MITCHELL, Z.	Poster J2.0
MOD, H.	S3, 12:15
MODY, K.	Poster M1.11
MOERMAN, F.	Poster N2.17
MOHLEY, A.	Poster E1.3

NAME	DETAILS
MÖHLER, H.	Poster C2.8
MOLOTOKS, A.	Poster F1.6
MONTESINOS, D.	Poster J1.15
MOREL-JOURNEL, T.	S50, 11:15
MORETTI, M.	Poster B2.19
MORINAY, J.	S7, 12:45
MORRIËN, E.	TT4, 15:45
MORTIER, F.	Poster E2.2
MOSSMAN, H.	Poster C2.9
MOTLEY, A.	Poster E1.9
MOUDINGO, J-H.	Poster J1.8
MRAZOVÁ, A.	Poster N1.20
MUGABO, M.	Poster N1.16
MÜHLBAUER, M.	S13, 15:45
MÜLLER, C.	TT9, 09:45
MULLER, D.	Poster H2.6
MUMBANZA, F.	Poster B2.3
MUNZBERGOVA, Z.	S39, 15:45
MUPEPELE, A-C.	S54, 09:45
MURRELL, D.	S27, 12:15
MYNOTT, S.	Poster F2.14
NAKAMURA, R.	Poster D1.9
NATER, C.	S40, 16:00
NDUWIMANA, J.W.	Poster D1.1
NEUSCHULZ, EL.	Poster N1.10
NEWBOLD, T.	S17, 16:45
NICHOLSON, D.	Poster K2.3
NIEDRIST, G.	Poster F2.10
NIJS, I.	S16, 15:45
NIKOLIC, N.	Poster D1.24
NILSEN, E.	S13, 15:15
NITA, A.	Poster M1.12
NKOLLO, C.A.	Poster C2.22
NOMURA, M.	S6, 12:45
NORDKVIST, M.	S21, 16:00
NOWAK, L.	Poster F2.24
OCCHIBOVE, F.	Poster K2.11
O'CONNOR, N.	S33, 11:00
ODDI, L.	Poster D1.37
OEHRI, J.	Poster F2.8
OJHA, N.	Poster M1.6
O'LEARY, J.	Poster K1.3
OLOUNLADE, O.A.	Poster A2.9
ÖPIK, M.	S53, 10:00
OREN, I.	S26, 12:15
ORME, D.	TT10, 09:45
ORO, D.	S5, 12:00
OSTROVSKII, V.	S27, 11:15
OSTROWSKI, A.	Poster M1.18
OTT, D.	Poster H2.15
OTTAVIANI, G.	Poster B2.5
PABLO, G.P.	TT4, 16:00
PAGEL, E.	Poster H1.12

INDEX OF PRESENTERS

NAME

DETAILS

PAGEL, J.	S48, 11:15
PALIT, R.	S62, 13:45
PALMER, S.	S29, 12:30
PANIW, M.	S40, 15:30
PAOLINA, G.	TT9, 11:30
PARK, K.	S1, 13:00
PARMENTIER, T.	S21, 16:30
PASCHER, K.	Poster A2.11
PASHALIDOU, F.	S24, 12:45
PATEMAN, R.	S17, 17:00
PAULI, H.	TT3, 17:00
PECK, L.	TT6, 12:00
PEETERS, E.	S33, 11:15
PELLISSIER, V.	S48, 10:15
PENK, M.	S25, 12:00
PENONE, C.	S57, 13:30
PEREZ NAVARRO, M.A.	Poster F1.11
PERINO, A.	S23, 11:45
PERRARD, A.	S18, 17:00
PERRIN, S.	Poster B2.16
PERRING, M.	S17, 15:30
PETER, F.	Poster C2.15
PFÄFF, C-T.	Poster N2.0
PHILLIPS, A.	Poster J2.21
PHILLIPS, H.	S17, 16:30
PHOTOPOULOU, T.	TT1, 12:45
PICHON, N.	S16, 16:00
PICOT, A.	S27, 12:00
PIERCE, S.	S9, 11:30
PIERISTÈ, M.	Poster D2.2
PIÑA COVARRUBIAS, E.	S64, 13:30
PINGEL, M.	Poster A1.16
PINSEEL, E.	S48, 11:00
PIRHOFFER WALZL, K.	S61, 14:15
PISMAN, M.	Poster A2.8
PLAISTOW, S.	S18, 16:30
PLUE, J.	S47, 11:15
POLLOCK, L.	TT10, 10:45
PONCHON, A.	S38, 15:00
PRADA-SALCEDO, L.	Poster K1.2
PREECE, C.	S8, 11:15
PRENDERGAST-MILLER, M.	Poster A1.14
PRINZING, A.	S3, 11:15
PROB, T.	Poster D1.34
PUFAL, G.	Poster D2.22
PUY, J.	Poster E1.5
QU, J.	Poster E2.13
RAATZ, M.	Poster D1.6
RABAIOTTI, D.	S63, 12:45
RADCHUK, V.	S25, 12:15
RAEYMAEKERS, J.	Poster E2.17
RAFFARD, A.	Poster E2.10
RAINE, E.	S10, 11:30

NAME

DETAILS

RAMIREZ, K.	S22, 15:15
RAMONEDA, J.	Poster D2.7
RATCLIFFE, S.	TT3, 15:45
RATTO, F.	Poster A2.6
RAU, A-L.	Poster D1.3
RAULO, A.	Poster E2.18
RAYMOND, C.	Poster N1.26
RAZANAMARO, O.	Poster C2.0
REGAN, C.	Poster H2.2
REINELT, L.	Poster G2.8
REINSCH, S.	S28, 11:15
REIS, V.	Poster F1.8
REJ_EK, M.	Poster M1.2
REUTER, H.	Poster N2.13
REYNOLDS, A.	Poster K2.8
REZENDE, E.	TT6, 11:00
RHYMES, J.	Poster G2.24
RICHARD, R.	Poster M2.16
RICHARDSON, O.	Poster M1.7
RICHMAN, S.	Poster F1.3
RICHTER, A.	Poster B1.2
RICHTER, A.	Poster D1.29
RICHTER, S.	Poster D2.28
RINDISBACHER, A.	Poster D1.40
RINGOT, G.	S38, 15:45
RISTOK, C.	Poster N1.24
ROBERTS, A.	Poster H2.12
ROBERTS, B.	Poster H2.8
ROBERTSON, S.	S34, 15:45
ROBINSON, S.	Poster F2.12
ROBROEK, B.	S49, 11:30
RÖDER, J.	Poster G1.16
RODRÍGUEZ HERNÁNDEZ, A.	Poster F1.20
ROELING, I.	S36, 16:15
ROLPH, S.	Poster M2.11
RONGET, V.	Poster M2.9
ROOT-BERNSTEIN, M.	TT8, 16:00
ROPARS, L.	S10, 12:30
ROSA, J.	S2, 12:00
RÖSCH, V.	Poster D1.5
ROSE, D.	S12, 16:15
ROSE, L.	S28, 11:45
ROSENBAUM, B.	Poster N2.11
ROTEM, G.	Poster A1.5
ROTH, N.	Poster C1.18
ROY, S.	TT7, 16:30
ROZAK, A.	S19, 16:00
RÜDISSE, J.	S9, 12:45
RÜGER, N.	S3, 12:00
RUOKOLAINEN, L.	S44, 16:30
RUPPRECHT, D.	Poster C1.23
RUTTEN, A.	Poster M1.14
RUTTEN, G.	Poster G2.22

INDEX OF PRESENTERS

NAME

DETAILS

RYAN, L.	Poster H2.1
RYO, M.	S4, 11:45
RYSER, R.	S32, 12:15
RYTTERI, S.	Poster C2.16
SAASTAMOINEN, M.	S18, 15:45
SADYKOVA, D.	Poster J2.14
SALGUERO-GOMEZ, R.	S40, 16:45
SANDNER, T.	Poster M2.18
SANKARAN, S.	Poster N2.21
SANTILLAN, V.	S37, 16:30
SARLEJ, R.	Poster G1.14
SARMENTO CABRAL, J.	S55, 14:00
SARNEEL, J.	S47, 10:30
SAUVE, A.	S21, 16:15
SCALETТА, K.	Poster M1.9
SCHABO, D.	Poster C1.9
SCHAEFER, M.	Poster H2.5
SCHÄFER, H.	Poster K1.6
SCHÄFER, R.	S4, 12:00
SCHAIBLE, R.	S50, 11:00
SCHÄLICKE, S.	Poster D1.22
SCHALL, P.	Poster B2.8
SCHANZ, F.	Poster M2.17
SCHAUB, L.	S61, 12:45
SCHAUM, C.E.	S18, 16:00
SCHEEPENS, N.	Poster E1.0
SCHENK, M.	S46, 11:15
SCHERBER, C.	S35, 15:00
SCHERRER, D.	S6, 12:15
SCHIGEL, D.	Poster J2.20
SCHIRMEL, J.	S61, 14:00
SCHLÄGEL, U.	TT1, 12:15
SCHMIDT, O.	S2, 11:15
SCHMIEDEL, U.	Poster F1.1
SCHMOOCK, I.	Poster G1.15
SCHNEIDER, F.	TT7, 15:45
SCHOFIELD, E.	Poster G1.4
SCHÖPS, R.	S30, 11:45
SCHRAMA, M.	S44, 16:00
SCHRAUTZER, J.	S15, 17:00
SCHRODT, F.	TT7, 16:15
SCHTICKZELLE, N.	S5, 13:00
SCHULTNER, J.	Poster M1.8
SCHULTZ, L.	TT2, 11:15
SCHWARZ, K.	Poster C1.14
SCHWARZER, C.	Poster F2.23
SCHWEIGER, A.	S23, 11:30
SCHWEIGER, A.	TT7, 16:00
SCHWIEGER, S.	Poster G2.0
SCIANI, M.	Poster N2.6
SCIRE', G.	Poster A1.6
SCOTT, B.	S4, 12:15
SEATON, F.	Poster G1.3

NAME

DETAILS

SEGEV, U.	S63, 13:30
SEHLAPELO IBOUANGA, D.	Poster C1.3
SEIBOLD, S.	Poster D2.18
SEIFAN, M.	S57, 13:15
SERCU, B.	Poster D2.4
SETHI, S.	Poster D2.34
SETTELE, J.	TT13, 13:00
SEYMOUR, M.	S20, 16:15
SHEARD, J.	S9, 12:00
SHEFFERSON, R.	S27, 12:45
SHEMESH, M.	Poster A1.15
SIEGER, C.	Poster E1.6
SILK, M.	S44, 16:45
SILVA-ROCHA, I.	S62, 13:15
SILVERTOWN, J.	S12, 17:00
SIMÕES, M.	Poster K1.11
SIMONS, N.	S54, 11:15
SIMPKINS, C.	S32, 12:45
SINISCALCO, C.	Poster D1.41
SITTERS, J.	S26, 12:30
SLADE, E.	S12, 16:30
SLATER, J.	Poster N1.5
SMIT, C.	TT8, 16:15
SMITH, A.	Poster H1.2
SMITH, B.	S2, 11:30
SMITH, H.	S4, 13:00
SMITH, T.	Poster K1.1
SMITH-MARTIN, C.	S37, 15:45
SOBHY, I.	Poster H2.0
SOHLSTRÖM, E.	S17, 16:15
SOLANKI, T.	TT11, 10:30
SOLIVERES, S.	S56, 14:00
SOLOFONDRAHOATRA, C.	Poster D2.3
SOMOYE, O.	Poster K2.13
SOONS, M.	TT1, 11:30
SORENSEN, M.	S24, 11:15
SOUSA-SILVA, R.	S49, 11:00
SPATZ, T.	Poster C1.25
SPICER, J.	TT6, 12:30
SPOONER, F.	Poster F2.1
SPORBERT, M.	Poster J2.13
SRIKANTHASAMY, T.	Poster G1.11
STAAB, M.	S21, 16:45
STALLMANN, J.	Poster F1.0
STANLEY, D.	Poster H2.3
STEINER, M.	Poster G2.9
STEVENS, M.	Poster N2.19
STEVENS, V.	Poster K2.9
STONE, M.	Poster D1.26
STONE, R.	Poster C2.4
STØSTAD, H.	S50, 10:15
STOTT, H.	Poster G1.22
STRAATHOF, A.	S8, 11:45

INDEX OF PRESENTERS

NAME

DETAILS

STRATMANN, T.	S55, 13:45
STREET, G.	S59, 13:45
STRIDE, G.	S47, 10:00
STROBL, K.	Poster C1.21
STRUEBIG, M.	S64, 14:15
SUÁREZ-TANGLI, B.	S1, 12:00
SUGGITT, A.	S6, 11:15
SUGRUE, C.	Poster B1.8
SULLIVAN, M.	S54, 10:00
SUMINOKURA, N.	Poster D1.18
SUTTER, L.	Poster D1.0
_VAMBERKOVÁ, E.	Poster B1.7
SVATEK, M.	Poster D2.20
SVENDSEN, N.	Poster D2.27
SVENNING, J.	TT8, 15:00
TACHIKI, Y.	S32, 12:00
TAMMA, K.	S32, 12:30
TAMME, R.	S48, 09:45
TANG, R.	Poster G2.14
TATARENKO, I.	Poster M2.13
TAUBERT, F.	S32, 11:00
TECKENTRUP, L.	Poster N2.5
TEIXEIRA, L.	Poster J1.9
TEMPERTON, V.	S23, 11:15
TERRY, C.	Poster M2.6
TERUI, A.	S44, 16:15
TEW, E.	S31, 11:30
THEBAULT, E.	Poster N1.13
THIEL, S.	Poster M1.13
THOMAS, J.	Poster K1.12
THOMAS, R.	S64, 12:30
THOMSON, D.	Poster F2.0
THOONEN, M.	Poster C2.11
THORN, S.	Poster B2.4
THORNHILL, I.	S15, 16:30
THREADGILL, K.	Poster A1.7
TIEDE, J.	S20, 16:45
TIELBÖRGER, K.	S57, 12:30
TIERNEY, P.	Poster K2.10
TIETJEN, B.	S39, 15:00
TIFFANY, K.	TT13, 12:30
TIMMERS, R.	Poster C1.26
TISCHEW, S.	S23, 12:30
TIUSANEN, M.	TT13, 14:00
TOBIAS, J.	S16, 16:45
TOMIOLO, S.	Poster E2.8
TOMOTSUNE, M.	Poster G1.2
TORICES, R.	Poster E2.0
TRAPPE, J.	Poster B1.14
TREHARNE, R.	S28, 12:15
TREXLER, J.	S25, 12:45
TREYDTE, A.	S11, 11:15
TROGISCH, S.	Poster D2.13

NAME

DETAILS

TSCHUMI, M.	S61, 12:30
TUCKER, M.	Poster J2.3
TURBELIN, A.	S12, 16:00
TÜRKE, M.	S37, 16:45
TURNER, S.	Poster J1.2
TÜZÜN, N.	TT12, 13:15
TWEED, J.	S47, 10:15
TYTGAT, B.	S22, 15:30
UKHANOVA, M.	Poster M1.10
ÜNLÜ, A. G.	Poster J1.0
UZMAN, D.	Poster A1.12
VAN BURM, E.	S11, 11:45
VAN CALSTER, H.	Poster B2.14
VAN CLEEMPUT, E.	Poster D1.27
VAN DAALEN, S.	Poster N2.16
VAN DE LOOCK, D.	S63, 13:00
VAN DE PEER, T.	S56, 13:00
VAN DER REIJDEN, K.	Poster M1.16
VAN DER WAL, R.	S9, 13:00
VAN DIEVEL, M.	Poster F2.17
VAN DIJK, J.	Poster B1.17
VAN GINKEL, A.	S63, 13:45
VAN GRIETHUYSEN, P-A.	Poster K2.15
VAN HAM, C.	TT2, 12:00
VAN HOESEL, W.	Poster K2.12
VAN KLINK, R.	S3, 13:00
VAN LANDUYT, W.	Poster D1.11
VAN LEEUWEN, C.	S58, 13:30
VAN MEERBEEK, K.	S56, 12:45
VAN MOORSEL, S.	S3, 11:30
VAN NOORDWIJK, T.	Poster M1.15
VAN PAASSEN, J.	Poster G1.6
VAN REETH, W.	S31, 12:30
VAN RIJN, P.	S61, 13:00
VAN RIJSEL, S.	Poster G2.10
VAN SCHROJENSTEIN LANTMAN, I.	S37, 16:15
VAN VELZEN, E.	Poster N2.14
VAN WAVEREN, C.	Poster A2.13
VAN WILLEGEN, L.	Poster F1.21
VAN ZON, A.	Poster G1.18
VANBERGEN, A.	S10, 13:00
VANDE VELDE, K.	S64, 13:15
VANDEGEHUCHTE, M.	S24, 12:00
VANNESTE, T.	S58, 13:45
VANSTOCKEM, J.	Poster D1.4
VARGA, S.	S8, 12:15
VARMA, S.	Poster N1.0
VASEK, M.	S26, 12:45
VEEN, C.	TT8, 16:30
VELDHUIS, M.	S60, 13:30
VERBEECK, H.	S43, 15:00
VERBERK, W.	TT6, 11:45
VERHEYEN, K.	TT3, 16:00

INDEX OF PRESENTERS

NAME	DETAILS
VETTER, V.	Poster J1.12
VIANA, D.	S3, 12:45
VIKUK, V.	Poster A2.7
VILA-CABRERA, A.	Poster F1.19
VILLACANAS DE CASTRO, C.	Poster E2.14
VILLA-GALAVIZ, E.	S25, 11:15
VISAKORPI, K.	Poster B1.6
VITRA, A.	Poster F2.21
VOGEL, A.	Poster G2.18
VOGEL, S.	S64, 13:45
VOGEL, S.	Poster C1.29
VOGT, J.	Poster A1.11
VON OPPEN, J.	Poster D1.28
VORKAUF, M.	S46, 10:15
VOSKAMP, A.	Poster J2.11
VOSTEEN, I.	S52, 11:30
VOYSEY, M.	Poster C1.12
WACKER, A.	Poster H1.14
WADDELL, E.	Poster J1.10
WAGGITT, J.	S14, 16:45
WAGNER, K.	S53, 11:15
WALCHER, R.	Poster A1.3
WALCZY_SKA, A.	S18, 16:15
WALDOCK, C.	Poster J2.6
WALKINGTON, S.	Poster K1.10
WALLWORK, A.	Poster G1.8
WALTERS, R.	S39, 16:15
WALTON, R.	S54, 10:45
WARD, J.	Poster H2.14
WARZECHA, D.	Poster C1.17
WASSERMANN, S.	Poster N2.24
WATERMANN, L.	Poster J2.15
WEBER, R.	Poster D2.8
WEFER, J.	Poster F2.3
WEIGEL, R.	Poster F1.9
WEISER, M.	S8, 11:30
WEISSER, W.	S49, 10:30
WELK, E.	Poster D1.31
WESENER, F.	Poster B2.12
WHEATLEY, C.	S34, 15:15
WHEELER, H.	S64, 14:00
WHITE, H.	S48, 10:00
WHITE, L.	Poster F2.22
WHITLA, R.	Poster H1.0
WIEGAND, K.	Poster M1.4
WIEGAND, T.	S58, 12:45
WILLEMS, F.	Poster F1.4
WILLIAMSON, L.	S29, 12:15
WILSCHUT, R.	Poster G2.20
WINTER, M.	S2, 13:00
WINTER, S.	S2, 12:45
WOOTTON, K.	TT5, 12:00
WORRICH, A.	Poster N1.6

NAME	DETAILS
WUBS, J.	S41, 15:45
WUYTS, K.	S22, 16:15
WYSE, S.	Poster J1.14
XUE, W.	Poster G2.12
YAMANAKA, H.	Poster H1.6
YGUEL, B.	S54, 10:30
YOSHIKAWA, S.	Poster H1.7
YOSHIKAWA, T.	Poster H2.4
YU, K.	Poster D1.35
ZAKHAROVA, L.	Poster N2.2
ZANETTA, A.	Poster B2.18
ZANINOTTO, V.	Poster N1.11
ZELNIK, Y.	Poster M2.20
ZENNER, E.	S58, 12:30
ZHANG, N.	S22, 16:00
ZHANG, P.	Poster N1.17
ZHANG, Y.	S53, 11:00
ZIEGENHAGEN, B.	Poster C1.22
ZIV, Y.	S47, 11:00
ZLINSZKY, A.	S13, 16:45
ZU ERMGASSEN, E.	Poster A1.1
ZU ERMGASSEN, S.	Poster C2.3
ZUO, J.	S41, 16:45
ZURELL, D.	TT10, 10:15
ZWANZIG, M.	S22, 16:30
ZYTYNSKA, S.	S35, 16:00

ATTENDEE INFORMATION

VENUE

Gent ICC – International Convention Centre

Van Rysselbergheplein 2 bus 1
Citadelpark
B – 9000 Gent
Belgium
GHENT

Ghent, Belgium's fourth-largest and arguably most beautiful city, is home to a quarter of a million people and a flourishing flower export trade. Its size and position allow the inhabitants to enjoy a city with an interesting crossover between open cosmopolitanism and the quiet atmosphere of a provincial town.

Ghent is a city of history. During the Middle Ages, it was one of the richest and most powerful cities in Europe, and was once considered the second largest city north of the alps, after Paris. The impact of this rich past can be clearly seen when viewing the imposing architecture of churches and the houses of rich traders. The whole of the city centre has been restored in this fashion, giving it the atmosphere of a thriving late-medieval city state. As the city centre is free of cars, it is now a welcoming and open area, which is impressive even to the people who live there.

GETTING AROUND IN GHENT

By Bus

Public transport in the city is well organised, with a comprehensive network of trams and buses. From early in the morning until late at night, the buses and trams will take you anywhere in and around Ghent and it is very cheap to travel. Single tickets can be used on the bus or tram within the city limits for an hour from the time you had it validated. You can buy them from the driver or from a vending machine located at several strategic spots in town, including the railway station and the central market square.

TIP: you need to validate the ticket by inserting it in a yellow box when getting on the bus or the tram.

You can also buy a day pass or a 3-day pass. These can be purchased on the bus/tram, however it is cheaper to get one at the Korenmarkt. A single ticket is around €2, 3-day passes are around €12, and children younger than 6 travel for free.

For more information about routes, stops and schedules, check out the public transport system website at www.delijn.be

Cycling

Ghent is a compact city with a cosy, car-free historic centre. Countless monuments and museums are within walking distance from one another, so it is easy to explore the city by bike. Bicycle Embassy (or De Fiets Ambassade) rent bikes for €10 a day. Bikes can be delivered to you and picked up again at a charge. For more information, visit www.fietsambassade.gent.be/en

Buggypunt Gent

Buggypunt Gent allows you to borrow a pushchair free of charge for your visit to the city. The pushchairs are all compact and manoeuvrable. They have a large carry cot and the children sit at eye-level. To borrow a buggy you just need to hand in an identification document as a guarantee. To find out more, see the Buggypunt website here www.max-mobiel.be/Buggypunt

By Boat

You can choose from various boating companies to discover Ghent along its idyllic waterways. The traditional boat tour is available every day. Your captain will also be your guide. During the boat tour, he will gladly share his knowledge with his passengers, naturally in various languages. Basic price: €7.00

By Taxi

Taxis are waiting for you at the Gent-Sint-Pieters and Gent-Dampoort train stations, and at many other strategic locations around the city: Korenmarkt, Woodrow Wilsonplein ('de Zuid') and Flanders Expo. Of course you can also phone or reserve a taxi in advance.

The website for Taxi Gent is www.taxigent.be/en/home or you can call on +32 (0)9 333 33 33.

By Car

The centre of the city of Ghent is a pedestrian area. The P-route leads you to the various car parks that give access to the city centre. As soon as you enter the city, the digital signs of the P-Route parking guidance system will quickly and conveniently direct you to the parking facility of your choice. If you wish to enter a pedestrian zone with a motorised vehicle between 11:00 and 18:00 you will need a permit to avoid getting a fine. Parking on public property in a pedestrian zone is not permitted.

BADGES

For security purposes, please wear your badges at all times within the ICC. If your badge is lost, a new badge may be issued for a cost of €10.

ATTENDEE INFORMATION

CATERING

Tea/coffee and lunches will be served in the main Exhibition Hall (Artevelde Forum and Pedro de Gante) and on the first and second floor mezzanines, during the designated refreshment breaks. Please only use the catering stations on the mezzanines if you are attending a workshop.

If you have a specific dietary requirement that you have informed us about (not vegetarian and vegan), then please ask a waiter for your food and this will be brought out from the kitchen.

We do our best to ensure the meeting produces as little packaging as possible within the constraints of the caterers. Please note, due to health and safety regulations at the venue, all gluten free bread will be served in individual packages.

CLOAKROOM

The cloakroom can be found below the escalators at the entrance to the ICC. It is complementary and will be open for the duration of the meeting, but closes 30 minutes after the last event of each day finishes.

FAMILIES

For those of you with children, we have a family room located by the registration area of the ICC. This room contains a microwave, fridge and kettle, and have the blinds down for family use. There is also an area for breastfeeding. Please feel free to bring toys to use in this area. It is your responsibility to ensure children are accompanied by an adult at all times.

CONTEMPLATION ROOM

We have set aside a room, Training House 1, for those that may need a moment to pause and reflect. This room can also be used for prayer. We ask you to please not use this room for working and to switch all electrical items off/to silence while using this space.

CURRENCY

Ghent uses the Euro.

DISCLAIMER

All the best endeavours will be made to present the programme advertised. However, the organising societies and their partners reserve the right to alter or cancel, without prior notice, arrangements, timetables, plans or other items relating directly or indirectly to

Ecology Across Borders 2017, for any cause beyond its reasonable control.

The organising societies and their partners are not liable for any loss or inconvenience caused as a result of such cancellation. Delegates are advised to take out their own travel insurance and extend their policy to cover personal possessions as the organising societies and their partners do not cover individuals against cancellation of bookings or theft or damage to belongings. Tours run by third parties may be subject to cancellation should the minimum numbers not be achieved.

ELECTRICITY VOLTAGE

220 – 240 Volts, Type E electrical plug two round pins.

FIRST AID

Should you require first aid assistance during the meeting, please contact an EAB team member who will be able to guide you to the appointed first aider.

INSURANCE AND LIABILITY

It is recommended that participants arrange their own personal health, accident and travel insurance. The meeting organisers will not accept liability for personal injury or loss/damage to property/belongings of participants or accompanying persons, before, during or following the meeting, on tours or during your stay in Ghent.

INTERNET

Complimentary Wi-Fi is provided throughout the ICC. Please log into the EAB2017 network.

LOST PROPERTY

Please hand in any lost property to the registration area where it will be made available for collection.

MOBILE APP

All abstracts can be accessed via our Mobile App, which will be available in mid-November. You can download the app on your laptop, mobile device or tablet. To download the app visit: eventmobi.com/EAB2017

MOBILE PHONES

As a courtesy to speakers and other delegates, we ask that all mobile phones and electronic devices be switched to silent mode before entering any session.

ATTENDEE INFORMATION

POSTERS

Poster sessions will take place in Pedro de Gante in the main Exhibition Area. Dedicated poster sessions will take place on Tuesday and Wednesday evenings.

Tuesday 12 December:	17:15 – 18:45
Wednesday 13 December:	18:00 – 19:30

PLENARY LECTURES

All Plenary lectures will be delivered in the Auditorium. The Plenary sessions will also be live streamed into the Van Rysselberghezaal, on the first floor. If you arrive late, or the auditorium is particularly full, please use this room – questions can be asked via Twitter with the conference hashtag #EAB2017.

SMOKING POLICY

Smoking is not permitted inside the ICC.

SOCIAL MEDIA

You are encouraged to share your experiences, thoughts and questions via social media, using #EAB2017.

We understand that some people will not want their research broadcast. We respect that, so have created a 'do not share' image for people to download on our website and add to their poster talk or presentation. We hope the fellow attendees will also respect the request and refrain from sharing the talks or posters that show the image. If people do not include this image on their presentation, we will assume they are happy for their research to be shared. You can find the image at: www.britishecologicalsociety.org/EAB2017/presenter-guidelines

CHRISTMAS DAY

On the last day of the meeting (Thursday 14 December) we invite you to start celebrating the holidays! We encourage you to come to the meeting in festive attire (jumpers, ties, tinsel, reindeer antlers – whatever takes your fancy) and tweet a photo of yourself to #EAB2017. There is a prize for the best/worst/most creative attire!

SPEAKER ROOM

The Speaker Room is an area located in the centre of the First Floor Foyer at two desk areas and will be open at the following times:

Monday 11 December	14.00 – 17.00
Tuesday 12 December	08.00 – 17.00
Wednesday 13 December	08.00 – 17.00
Thursday 14 December	08.30 – 13.00

The area is fully equipped for speakers to hand in and review their presentations. To ensure that the presentations are ready in time, speakers should bring their presentations to the room at least 3 hours before their the beginning of their session. Technical staff will be on hand to help with any issues.

FILMING

We will be filming and taking photographs throughout the conference, which we might share on social media, online and in the organising committees' member magazines. If you would prefer not to be included in these, please contact Richard English in the registration area.

TIME ZONE

Ghent is currently on CET (Central European Time).

VENUE SECURITY AND DRILLS

In the event of an emergency the ICC staff will guide you to safety. There will not be any fire alarm tests during the meeting, therefore any fire alarm is the real thing.

If at any point in the meeting you have any questions or require assistance, please contact a member of the EAB staff either at the information stand or in the registration area, or any of our helpers – who can be identified by their blue 'Help Is Here' t-shirts.

SOCIAL EVENTS

Monday 11 and Tuesday 12 December

The Conference Dinner will take place in the Banketzaal & Minneplein (1st floor Mezzanine). Tickets must have been purchased in advance, the dinner is now sold out. The event starts at 19:30. If you can't make the dinner, our doors will be open from 21:30, so that everyone can join us for a drink and a dance when the band starts!

Get to know our exhibitors with our treasure hunt! Pick up a questionnaire at the registration desks and make your way round the exhibition stands to find the answers. The first one handed into the registration Help Desk will win a prize!

We love a competition. This year you will find table football, air hockey, and Giant Jenga around the venue. Find teams in other ecological disciplines and challenge them to a friendly game or two!

Keep an eye open for our pop-up science busks! BES volunteers will be circulating during social and poster sessions, showcasing the engagement activities developed as part of our training programme. All busks can be borrowed by members for outreach, so come see what we have to offer at EAB2017.

The last day of the conference is Christmas Day! Celebrate the start of the festive holidays by sporting some festive attire. We've seen some amazing Christmas jumpers in previous years, but Christmas ties, tinsel, reindeer antlers, hats are all welcome. Tweet a photo of yourself to #EAB2017 for your chance of winning a prize!

Monday 11 December

WELCOME MIXER

Time: 19:30 – 21:30

Location: Exhibition Hall

Join us as we welcome you to Ecology Across Borders. Have a drink, check out our exhibitors, meet old friends, and start building new relationships.

GET MORE INVOLVED IN THE BES

Time: 19.30 – 21.30

Location: BES stand, Exhibition Hall

Governance changes at the BES have created lots more opportunities for members to get involved in running the Society. In particular, we are recruiting more people to our committees which cover the whole range of our work – from publications and policy to education and finance. If you'd like to find out more about the valuable experience you can gain from being on a committee, or how you can contribute to helping your Society, come along to our stand and chat to existing committee members.

Tuesday 12 December

CHRISTIAN ECOLOGISTS

Time: 08:00 – 09:00

Location: Training House 2

This is an opportunity for Christian ecologists of all denominations to gather and share their enthusiasm for the natural world, and the role their faith plays in shaping this passion. Coffee will be provided.

BES TRAVEL GRANT BREAKFAST

Time: 08:00 – 09:00

Location: Guislainzaal 2

This is an invite only event for all attendees that received a BES Travel Grant for Ecology Across Borders, to meet and network with other awardees. Coffee and pastries will be provided.

SOCIAL EVENTS

Tuesday 12 December

LAUNCHING THE ACCESSIBILITY NETWORK

Time: 10:30 – 11:15

Location: Training House 2

For anyone and everyone with any disability that makes the working day more of a challenge, makes attending scientific conferences a little harder or makes career progression more uncertain. Join us for an informal coffee to discuss barriers to research, career progression and to develop a stronger support network within the community. If you cannot attend the meeting, but would like to get involved, please contact Karen@britishecologicalsociety.org.

SPEED REVIEW WITH BES JOURNAL SENIOR EDITORS

Time: 17.15 – 18.15

Location: BES stand, Exhibition Hall

Would you like to discuss your work and get publishing advice from our Senior Editors? Sign up at the BES stand for a one-to-one chat with a journal Editor. Sign-up sheets will be available at the BES stand from the Welcome Mixer onwards, so book a slot and bring along a key result, table or figure to the session.

POSTER SESSION 1

Time: 17:15 – 18:45

Location: Exhibition Hall

A great opportunity to view and discuss the research of your fellow delegates, while networking and enjoying local beverages.

BES AQUATIC ECOLOGY GROUP SOCIAL

Time: 19:00 – 22:00

Location: Bauwenszaal

Come and join us for cheese and wine, and to meet other aquatic ecologists! Follow us on Twitter, @BES_AquaEco, for more details during the meeting. We hope to see you there!

BES CITIZEN SCIENCE & INVASION SCIENCE GROUP SOCIAL

Time: 19:00 – 22:00

Location: Hubert van Eyck

The Citizen Science SIG is planning on a night-time trail in search of aliens, and will first meet for a drink alongside the Invasion Science SIG before heading out on an expedition – arriving at a bar approximately one hour later to share observations. The Invasion Science SIG will continue mingling over drinks and snacks, before venturing into town. Please join us for any part of the evening adventures!

BES CLIMATE CHANGE ECOLOGY GROUP SOCIAL

Time: 19:00 – 22:00

Location: Casinozaal 2

We will be discussing recent developments in climate change science and policy with drinks and snacks. All are invited to attend this friendly, informal event and to find out more about the group, the events we have planned for next year and how to get involved.

JOINT BES AND GFÖ MACROECOLOGY GROUP SOCIAL

Time: 19:00 – 21:00

Location: Van der Goeszaal

Join us for some networking, wine, snacks and a macro-themed quiz (with prizes!). All welcome, especially those with interests in macroecology, biogeography or macroevolution. Quiz will start at 19:30.

BES MICROBIAL ECOLOGY GROUP CHRISTMAS SOCIAL

Time: 19:00 – 22:00

Location: Jan Van Eyckzaal

Come along to the Microbial Ecology social to meet fellow microbial ecologists, find out about our upcoming events, and to eat, drink and make merry. Chat to the committee about your proposals for future events – or feel free to just enjoy the complimentary food and drinks.

SOCIAL EVENTS

Tuesday 12 December

BES MOVEMENT ECOLOGY GROUP SOCIAL

Time: 19:00 – 22:00

Location: Baekelandzaal 2

Time flies – it is now a year since we launched the Movement Ecology SIG. Join us for a drink to review our first year, marked by our successful first workshop, learn about our plans for next year (workshops, Early Career events, overseas activities), and brainstorm about community-led Movement Ecology initiatives.

BES PALEOECOLOGY GROUP LAUNCH SOCIAL

Time: 19:00 – 22:00

Location: Baekelandzaal 1

We are seeking support to set up a Palaeoecology SIG – come along and find out more. We'll be taking a sociable approach, with refreshments, to exploring connections between neoecology and palaeoecology; ecological datasets extending from decades to millennia have never been more relevant. All welcome!

BES PARASITE & PATHOGEN ECOLOGY AND EVOLUTION GROUP

Time: 19:00 – 22:00

Location: Conceptstore

We invite anyone with an interest in our remit to join us for a 'meet and greet' drinks and nibbles at the ICC, after which we will move on together to another venue.

JOINT BES QUANTITATIVE ECOLOGY, GFÖ COMPUTATIONAL ECOLOGY AND GFÖ YOUNG MODELLERS MIXER

Time: 19:00 – 22:00

Location: Baekelandzaal 3

The BES Quantitative Ecology SIG, GfÖ Computational Ecology group, and GfÖ Young Modellers in Ecology will be holding a joint mixer event. There will be free food and beer, opportunities to meet new people, find out about the groups' activities and to get involved. All welcome!

MEETING OF THE GFÖ SPECIALIST GROUP, SOIL ECOLOGY

Time: 19:00 – 22:00

Location: Guislainzaal 3

The Soil Ecology Specialist Group is a platform for scientific exchange. It is open to all interested soil ecologist, GfÖ members as well as non-members. For more information, contact Liliane.ruess@biologie.hu-berlin.de

BES TEACHING & LEARNING GROUP SOCIAL

Time: 19:00 – 22:00

Location: Guislainzaal 1

The newly-formed Teaching and Learning SIG invites you to join us for a few drinks and nibbles to celebrate our first birthday! We welcome anyone who is involved/interested in ecological teaching to come and meet us and find out about joining the SIG.

THE ART OF SCIENCE COMMUNICATION: A JOINT SOCIAL EVENT HOSTED BY THE BES TROPICAL AND FOREST ECOLOGY GROUPS AND THE GFÖ FOREST ECOLOGY SPECIALIST GROUP

Time: 19:00 – 22:00

Location: Casinozaal 1

We are hosting a discussion event on how art can help spread the message of the importance of ecological science and conservation to the wider public, with a particular focus on forests. Anyone interested in forests, tropical ecology or the role of art in science and conservation in general is welcome to attend. There will be some refreshments available at the venue and from 20:00 we intend to explore what else Ghent has to offer! Follow [@BES_Tropical](#) and [@BESForests](#) for updates.

SOCIAL EVENTS

Tuesday 12 and Wednesday 13 December

BES AGRICULTURAL AND CONSERVATION ECOLOGY GROUPS, GFÖ SPECIALIST GROUP NATURE CONSERVATION AND RESTORATION ECOLOGY POLICY DISCUSSION AND NETWORKING EVENT

Time: 19:00 – 22:00

Location: Van Rysselberghezaal

Join us for a panel debate on 'The future of sustainable land management in Europe: data, communication & money.'

Our panellists will be:

- Sofie van de Woestijne, from the Directorate-General for Research and Innovation.
- Trees Robijns, Senior EU Agriculture and Bioenergy Policy Officer for BirdLife International (now based at the NABU headquarters).
- Bill Sutherland, Miriam Rothschild Professor of Conservation Biology.

They will be looking at future funding opportunities for evidence-based sustainable land management and discussing the science, policy and implementation challenges and needs. After the panellists have shared their thoughts, there will be a question and answer session, followed by the chance to network. Food and drinks will be provided.

EXHIBITOR RECEPTION

Time: 19:00 – 21:00

Location: Guislainzaal 2

Drinks reception hosted by BES Development Manager, Paul Bower, for all exhibitors and anyone considering exhibiting at the 2018 BES Annual Meeting at the Birmingham ICC. An ideal opportunity to help us improve the exhibition and reserve a stand at a discount for next year.

SCIENCE SLAM FRINGE EVENT

Time: 20.00 – late

Location: Pillar Room ('Zuilenzaal'), Geuzenhuis

Everyone is used to the more traditional methods of presenting science, and there will be posters and talks galore at the meeting. But at the Science Slam you will see, entertaining and certainly different ways of science communication! Previous Slams have seen singing (in full frog costume), stand-up, martial arts, chilli-tasting and an alien striptease! For more information on the venue, visit www.geuzenhuis.be

Wednesday 13 December

AWARDS CEREMONY

Time: 09:30 – 10:30

Location: Auditorium

Join us to celebrate the award winners from each of the partner societies. For more information on the award winners, see page 106.

POSTER SESSION 2

Time: 18:00 – 19:30

Location: Exhibition Hall

A great opportunity to view and discuss the research of your fellow delegates, while networking and enjoying local beverages.

LGBT+ MIXER

Time: 18:30 – 19:45

Location: Guislainzaal 1

The BES has been pleased to host an LGBT+ mixer at its previous two Annual Meetings and is excited to bring it to EAB2017. It is a fun, informal event where you can chat and network over a drink in a welcoming and inclusive setting.

CONFERENCE DINNER

Time: 19:30 – 21:30

Location: Banketzaal & Minneplein (1st floor Mezzanine).

Join us for our conference dinner, with live music from a 20 strong acoustic guitar band, delicious food, and great networking opportunities! Tickets must have been purchased in advance – the event is now sold out. You will be given a stamp on entry which will give you access to limited complimentary drinks.

CONFERENCE PARTY

Time: 21:30 – 23:30

Location: Banketzaal & Minneplein (1st floor Mezzanine).

Our evening dance with live music is open to all for free. There will be a cash bar and a great band to get you all on the dance floor!

SOCIAL EVENTS

Thursday 14 December

REMEMBER ECOLOGY IN YOUR WILL

Time: 11:45 – 12:30

Location: Training House 2

Paul Bower, BES Development Manager, will be holding an informal lunchtime advice session for anyone who is considering leaving a legacy to support ecology and ecologists.

THE GfÖ PHOTO AWARD

The winner of the GfÖ Photo Award is chosen by you, the participants of EAB2017, and by the Facebook community. You can find the images displayed in the Exhibition Hall, Artevelde Forum, so please take a look and then vote for your favourite image!

A ballot paper is available in your name badge. Please indicate the number of your favourite photo and hand these into the GfÖ stand (Stand 1) in the main Exhibition Hall.

You can also vote on the GfÖ Facebook page at www.facebook.com/gfoe.org

Paper votes will count 2/3, and Facebook likes will count 1/3. The deadline for voting is Wednesday 13 December at 08:30, so get your votes in quick!

 The Ecological Society of
Germany, Austria
and Switzerland

CAPTURING ECOLOGY: THE ANNUAL PHOTOGRAPHIC COMPETITION OF THE BRITISH ECOLOGICAL SOCIETY

With support from Lomography



Our judges had their hands full this year, with over 300 entries to our annual photographic competition. You can see the stunning winning images displayed throughout the conference centre on artist's easels – see if you can find all 15!

If you are inspired to enter, there is a category for everyone; so, whether you are out on exotic field work or in the comforts of your back garden, get those cameras at the ready!

This year we added an exciting new category, The Art of Ecology, providing an opportunity to show us your artistic flair, with a creative and original take on photography denoting ecology.

- Up Close and Personal
- Dynamic Ecosystems
- Individuals and Populations
- Ecology and Society
- Ecology in Action
- The Art of Ecology

The competition is open to all BES members and is a great way to promote your photography and the research you are involved in – with winning images appearing in our Bulletin, displayed at our Annual Meeting, and both BBC News and Discover Wildlife frequently featuring competition winners online.

The overall winner receives £750, the overall runner-up receives £250, and the student award winner receives £100. In addition, other winning submissions will receive £40 worth of either Cambridge University Press or Oxford University Press vouchers.

The next round will open for entries in Spring 2018.



Overall Winner:

On the trail, Christopher Beirne



Overall Runner-up:

Toco toucan looking back, Mark Tatchell



Overall Student Winner:

I see you, Leejiah Dorward

TREELINES: WHERE NEXT?

A meeting across two cities: Bergen, Norway & Perth, Scotland
3 – 4 September 2018

Across the boreal zone the altitudinal treeline ecotone shares many plant and animal species. It can be one of the most biologically diverse transition zones due to its highly variable structure. How have the markedly different land use histories in Scandinavia and the UK affected the flora and fauna, both above and below ground, and their function in these ecotones? What are the implications for rural policy and land use of the current heightened dynamic flux in both climate and politics?

There appears to be an upward trend in the movement of tree and shrub species in Scandinavia while in the UK treeline habitats are very rare and there is conservation concern associated with many montane scrub species. In addition, the land use differences, across the countries, have fostered very different attitudes to this ecotone and its role in supporting (or not) the interests of extensive agriculture or hunting practice, and wider recreational activity.

Join us for one and a half days in Bergen, Norway for an examination of the science exploring these issues with leading scientists from across Europe. Then join the debate between rural policy makers, land users and other key stakeholders, about the impact that land use and rural policy have on the biodiversity and the delivery of ecosystem services. This discussion will be web-linked live between Bergen and Perth, a first for the BES, enabling direct comparisons between the two countries. The indoor meeting will be followed by a chance to visit a treeline ecotone site in either country.

Want to participate? Prepare a poster showcasing your contribution to our understanding of treeline zone dynamics.

For further information, please contact BES Events Manager, Amy Everard: amy@britishecologicalsociety.org



NETHERLANDS—FLANDERS ECOLOGICAL SOCIETY (NECOV)



The Netherlands—Flanders Ecological Society (NecoV) represents the community of ecologists in the Netherlands and Belgium whose mother tongue is Dutch and who are member of the society.

Its mission is 1. to promote and support fundamental and applied ecology in the Netherlands and Flanders (Belgium), 2. to promote and support national and international cooperation of ecologists, and 3. to promote and support responsible management of the biosphere.

NecoV organises different kinds of activities, of which conferences are among the most important. Together with the Netherlands Ecological Research Network (NERN), it co-organises the Netherlands Annual Ecology Meeting (NAEM), a two-day meeting where up to 400 scientists and practitioners meet and present their recent research results. NecoV facilitated the start and co-organises the Flemish Annual Meeting of Ecology (FAME) which aims to bring together all academic ecologists and ecological networks in Flanders (Belgium).

NecoV represents over 400 members working/studying in universities, scientific institutes, private companies working on ecological questions, etc. NecoV is an active member of the European Ecological Federation (EEF).

www.nevoc.org

EUROPEAN ECOLOGICAL FEDERATION (EEF)



The European Ecological Federation (EEF) is the umbrella organization of Ecological Societies within Europe and comprises 17 member societies representing more than 8000 ecologists. The European Ecological Federation enables cooperation between European ecological societies in order to promote the science of ecology in Europe. It does this through providing a forum for effective communication throughout the community of ecological scientists in Europe on matters of common interest. It is disseminating ecological knowledge through meetings, publications and other means. It is promoting collaborative activity on those matters where there is a pan-European context and cooperating with many other international organisations.

The EEF engages with the European Union to support investment in ecological science and ensure its appropriate use in policymaking. The EEF will bring together ecologists across Europe to respond to European Commission consultations,

to suggest experts for EU advisory committees, to hold meetings to bring together policymakers and scientists and to raise the profile of the EEF and ecology with EU policymakers and politicians. The EEF has an important role to play in synthesizing scientific information to feed into policymaking in Europe, and in providing advice and guidance to decision makers seeking scientific information.

The EEF publishes *Web Ecology*, an Open Access journal that received an impact factor of 0.94 in the 2018 journal citation report, issued by Clarivate analytics (former Thompson). *Web Ecology* is open to all ecological society members and is and will be at the service not only as a natural outlet for scientific publications, but also as a forum for debate, and for scientific advancement.

37TH ANNUAL GENERAL MEETING



AGENDA

The AGM will be held at 17:15 on Wednesday 13th December 2017 in the Jan Van Eyckzaal Room, International Convention Centre, Van Rysselbergheedreef 2, 9000 Gent, Belgium.

The agenda for the 37th Annual General Meeting of the British Ecological Society is as follows:

1. Minutes of the past AGM

Acceptance of the minutes of the 36th AGM held on Tuesday 13th December 2015 in the Hall 1, Area and Convention Centre Liverpool, Monarchs Quay, Liverpool, Merseyside L3 4FP (as published in the Bulletin Vol 48:1 pp24 – 25).

2. Accounts

The Accounts for the year ended 31 December 2016 (as published in the Bulletin Vol 48:3 pp 65-90)

3. The reports of the Treasurer and the Auditors

4. The report of the Council Secretary

5. Articles of Association

The members are requested to resolve by special resolution that the Memorandum and Articles of Association of the Society be replaced in their entirety by the Articles of Association attached to this notice

6. Trustee terms of office

The terms of office of our two Vice Presidents, Rosie Hails and Andrew Pullin, are both due to expire at the close of the AGM. In order to restore the usual rotation cycle provided for by the Articles of Association of the Society and to ensure that the Society does not have to replace both Vice Presidents at the same time, the trustees resolve to exercise the power at Article 9.7 of the new Articles of Association to extend the term of office of Rosie Hails for one year until the end of the AGM held in 2018.

7. To elect Officers of Council of the Society

Present Officers		Retiring Date	Council Nominees
President:	S. Hartley	2017	
Past President		2018	S. Hartley
Vice President:	R. Hails	2018	
Vice President:	A. Pullin	2017	D. Hodgson
Council Secretary:	A. Vanbergen	2018	
Honorary Treasurer:	T. Ezard	2019	
Honorary Chairpersons of Committees		Retiring Date	Council Nominees
Meetings:	Z. Davies	2018	
Policy:	J. Vickery	2019	
Publications:	J. Hill	2019	
Education, Training and Careers:	W. Gosling	2017	W. Gosling

8. To elect Ordinary Members of Council

Present Members	Retiring Date	Nominees for election
D. Gilbert	2017	Early Career Representative:
I. Stott (Early Career Rep.)	2017	L. Bartlett
M. Eichhorn	2017	A. Birkett
D. Scott	2017	L. Graham
L. Turnbull	2017	R. Hale
Y. Buckley	2017	R. Robertson
P. Brotherton	2018	J. Walker
N. Hautekèete	2018	
C. Banks-Leite	2019	
H. Roy	2019	
P. Thomas	2019	

9. The appointment of the Auditors for 2017

10. Auditors' remuneration

11. Any other business: To be tabled in writing to the Council Secretary at least three weeks before the AGM.

NOMINATIONS FOR COUNCIL

PRESIDENT

Richard Bardgett **University of Manchester, UK**



Richard Bardgett is Professor of Ecology at The University of Manchester. He gained a degree in Soil Science from Newcastle University in 1987 and a PhD from Lancaster University in 1991, under the supervision of John Whittaker and the late Juliet Frankland. After a short spell with the Nature Conservancy Council, he worked at the Institute of Grassland and Environmental Research, and the Universities of Manchester and Lancaster, before returning to Manchester in 2013.

The main goal of Richard's research is to understand how plant–soil interactions regulate ecosystem processes and their response to global change. He has published over 250 papers and is recognized as a Highly Cited Researcher. He has also authored several books, including the *Biology of Soil* (2005) and his recent book *Earth Matters: How Soil Underpins Civilization* (2016). Richard is active in promoting soil security issues; to this end, he was a founder member of the Global Soil Biodiversity Initiative, and contributed to the UN's Status of the World's Soil Resources Report (2015), the UK's Climate Change Risk Assessment 2017 Evidence Report, and the House of Commons Soil Health Report (2016).

Richard has been a BES member since 1987 and was elected Vice President 2011–2013. He has acted as a Senior Editor of the *Journal of Ecology* since 2006. He serves on several funding panels and advisory boards, and was elected a Fellow of the Royal Society of New Zealand in 2006, the Royal Society of Biology in 2011, and a member of Academia Europaea in 2015.

PAST PRESIDENT

Sue Hartley **University of York, UK**



Sue Hartley is a community ecologist recognised internationally for her work on the interactions between organisms, particularly plants and their herbivores. Currently, her research is focussed on using natural plant defences as a sustainable way to protect crops against pests. She did her first degree in biochemistry at the University of Oxford before applying her chemical knowledge to the study of plant defences against insect herbivores in a PhD at the University of York. She then moved to the Centre for Ecology and Hydrology before joining the University of Sussex in 2001, where her long-standing interest in the role of silicon as a plant defence began. She has studied plant–herbivore interactions from the sub-arctic to the tropical rainforest and has trained over 30 PhD students.

Sue has a long association with the BES, having served as a Council Member (1995–1998), the Vice President (2004–2007) and Chair of Publications Committee (2006–2011) – she received the President's Medal in 2009 and the BES Award for exceptional service to the Society in 2012. In 2009 she delivered the Royal Institution Christmas Lectures, becoming only the 4th woman to do since they were started by Sir Michael Faraday in 1825. In 2010, she moved back to the University of York to become Director of the York Environmental Sustainability Institute, a new interdisciplinary research centre bringing together leading environmental researchers from a broad range of disciplines to tackle key global challenges, such as climate change, biodiversity loss and food security.

VICE PRESIDENT

Dave Hodgson **University of Exeter, UK**



Dave Hodgson is a population ecologist, with key interests in ecological statistics, life history evolution, empirical modelling of population dynamics, and the application of ecological concepts to conservation biology and pest management. He is Professor of Ecology at the University of Exeter's Cornwall Campus, and Director of the Centre for Ecology and Conservation. He has published research on a wide range of organisms and systems, including life history variation among plants, mathematical tools for population modelling, phenotypic diversity in baculoviruses, evolution of diversity in bacterial microcosms, plant–herbivore interactions, transient population dynamics, consequences of feminisation in wild fish, the evolutionary ecology of lizards, host–pathogen evolutionary dynamics, growth and dispersal dynamics in aphids, migration decisions in wildfowl, epidemiology of bovine tuberculosis in badgers, and sexual conflict. Professor Hodgson lectures undergraduate and postgraduate modules on UK Natural History, Critical Thinking, Statistical Modelling, and leads a Conservation Science and Policy field trip to Kenya every January. He was a Member of Council of the British Ecological Society 2008–2010, and Honorary Secretary of the BES from 2010–2015. He is an Associate Editor for *Ecology Letters* and for *Methods in Ecology and Evolution*. Professor Hodgson also engages in media work for television and radio. In his spare time Dr Hodgson hosts three parasites (two human and one canine), is a failed rock star, coaches youth football teams, makes jam, and enjoys stomping across the Cornish landscape and coastline.

NOMINATIONS FOR COUNCIL

CHAIR, EDUCATION & CAREERS COMMITTEE

Will Gosling
University of Amsterdam, The Netherlands



I am currently Head of the Department of Ecosystem & Landscape Dynamics (University of Amsterdam). Prior to moving to the Netherlands in 2014 I was at The Open University, and Florida Institute of Technology. I studied at the Universities of Hull (BSc) and Cambridge (MPhil), and then researched modern pollen-vegetation relationships in the Neotropics for my PhD (University of Leicester). My research focuses upon trying to place observations of current ecosystems in a long-term (>50 year) context through examination of the fossil record. My research is mainly located in the tropics (Andes, Amazon and West Africa) and on timescales ranging from annual to multi-millennial. I seek to examine multiple lines of evidence to reconstruct the ecology of the past.

My role within the BES has varied over the last 11 years: (i) Secretary of the Tropical Ecology Special Interest Group (2006-2009), (ii) Ordinary Member of Council (2010-2014), and (iii) Chair of Education & Careers Committee (ECC) (2015-2017). In this time I have helped to establish early career meetings, contributed to Meetings, Grants, and Management & Finance Committees, and championed the expansion of the Society's involvement with public engagement. I am seeking re-election to ECC because I am excited by our recent successes in delivering Summer Schools, grant writing events, and mentoring programs, and would like to help to expand this work further. In addition, I believe that my base in Amsterdam means that I can provide a distinct perspective for a society that is looking to strengthen links across Europe.

ORDINARY MEMBER OF COUNCIL, EARLY CAREER REPRESENTATIVE

Lewis Bartlett
University of Exeter, UK



I'm a final-year PhD researcher with the University of Exeter and a visiting researcher at UC Berkeley, and have enthusiastically involved myself with a broad range of BES initiatives. I've sat on the Early Careers Working Group for over 2 years, contributing to timely BES responses on topics like TEF and Brexit. I've acted as a BES Ambassador delivering schools outreach, have twice mentored the BES undergraduate field course, and am a founding committee member of the new Learning and

Teaching SIG. Bulletin and BES-blog contributions about these activities might make my name familiar to some, as might the early career teaching workshop I'm leading in Ghent this December. The rewards of investing in these activities is one of my favourite aspects of academic ecology.

Outside of the BES I've been employed by, studied at, or been affiliated with five universities (3 UK, 2 USA) – giving me the necessary perspective to act as an empathetic and informed early career representative. I've engaged with equality and diversity improvement in both the UK and USA since my undergraduate studies, including sitting on multiple student representation committees, encompassing unionised representation, intra- and inter- departmental working groups. I've extended this equality and diversity engagement to other professional societies – including as a spokesperson and campaigner for better diversity measures in the Ecological Society of America. These efforts led to my invitation to participate in the Entomological Society of America's recent diversity initiatives.

Overall I would bring breadth of perspective, a values-driven conviction, and a principled outspoken voice to representing early career ecologists on Council. I honestly believe the BES to be a world leader in what it does; I would be honoured to contribute to guiding its future growth, and to share in the responsibility of ensuring the BES continues to best serve its current and future members.

ORDINARY MEMBER OF COUNCIL, EARLY CAREER REPRESENTATIVE

Ali Birkett
University of Lancaster, UK



I am still as fascinated by ecology now as when I was 14, and a lot of that continued enthusiasm is thanks to the inspiring ecologists that I've met along the way! This is particularly through the welcoming nature of our Society, so now I feel it's time to give something back!

In my research, I am interested in species' interactions in the face of environmental change, which I have followed in my PhD (awarded 2015), technician and Postdoc roles. I also believe strongly in the importance of interactions within science: be that across borders, across scientific disciplines, with the public, or between the scientific community and stakeholders. I am therefore very keen to contribute to the Society's work in these areas — especially after the honour of receiving a Public Engagement Award during the 2016 Annual Meeting in Liverpool. In my current role as Research Coordinator for Lancaster Environment Centre, Lancaster University, I have also experienced first-hand the need for early career scientists to feel supported and valued within the

NOMINATIONS FOR COUNCIL

research community in these pressured and uncertain times. I'm passionate about ensuring this atmosphere remains integral throughout our Society. With previous experience of being a trustee elsewhere (for a thriving local community centre) and active participation in various departmental committees throughout my time at Lancaster, I offer my services to the Society and I hope that as a vocal member of Council I can therefore make a valuable contribution to our continued success!

ORDINARY MEMBER OF COUNCIL, EARLY CAREER REPRESENTATIVE

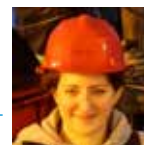


Laura Graham
University of Southampton, UK

I am a landscape ecologist interested in using statistical and computational methods to understand how anthropogenic changes affect global ecosystems, and how this in turn affects human well-being. I have been a member of the BES since I began my PhD in 2011 and I am committed to contributing to and ensuring the delivery of the Society's strategic vision. I have experience of working in both the UK and the US, across academic disciplines (mathematics, geography and ecology) and in the private sector. As BES Early Career Representative, I would draw on this broad experience as well as on my experience on the BES Quantitative Ecology SIG committee and as ECR rep on my department's research committee to develop strategies to aid early career ecologists and ensure their voices are heard. I am currently a postdoc at the University of Southampton. My current research focus is on finding general scaling rules for ecosystem service mapping to understand how land use and policy changes may affect ecosystem services.

Through my position on the Quantitative Ecology SIG and my membership in the Macroecology SIG – both groups with high proportions of ECR members – as well as my sustained relationships and collaborations with PhDs and postdocs from former lab groups, I have strong links to the ECR ecology community. If I were to be elected BES Early Career Representative, I would build upon the work of those before me to ensure the needs of early career ecologists are considered by the Society. For instance, continuing to provide ECR opportunities to meet established academics at the Annual Meeting, strengthening the links with INNGE, and continuing the development of the mentoring schemes.

ORDINARY MEMBER OF COUNCIL, EARLY CAREER REPRESENTATIVE



Rachel Hale
University of Southampton, UK

In all my actions I try to create an environment, both for ECRs and for all, that I would like to be a part of. As the ECR representative on BES Council, while my priority would be putting ECR views and the creation of opportunities for ECRs first I would also be involved in shaping the Society as a whole.

As Ocean and Earth Science ECR representative at my own institution (the University of Southampton) I try to create a collegial and supportive atmosphere, running regular networking and information events. I would hope to be able to contribute to such efforts already in place through BES as ECR representative and expand and support new ventures when needed.

I am currently Secretary for the International Network of Next generation Ecologists (INNGE), who have been working with BES and INTECOL to ensure support and creation of opportunities for ECRs globally. As such I have experience of designing and running large ECR-targeted events, and am linked to ECRs both within my own institution, nationally and internationally. I am therefore able to call upon the expertise of and represent a diverse community of ECRs.

With the Chair of INNGE, I am leading the effort for INNGE to become a charity registered in the UK, writing the governing documents and making sure we abide by the rules of a Charitable Incorporated Organisation. I have experience of what is required from a Trustee with regard to integrity and accountability. I am also prepared for the amount of time needed to properly represent myself and other ECRs for the role and will accept responsibility for decisions made.

NOMINATIONS FOR COUNCIL

ORDINARY MEMBER OF COUNCIL, EARLY CAREER REPRESENTATIVE



Rebecca Robertson
University of Leeds, UK

I'm a PhD candidate at the University of Leeds looking into urban green space interventions and their impacts on biodiversity and human health and well-being. I'm interested in ecology and social science, which is why I'm in the process of applying for a Special Interest Group for this area. This will support members, particularly early career members, interested in exploring social dimensions of ecological topics through training.

I'm an active and committed member of the BES and have gained extensive insight into the work of the organisation through a policy internship and participating in the public engagement programme. I have attended and presented at BES committee meetings.

As part of my previous role, I helped organise the Early Career Group in the David Attenborough Building which gave me the opportunity to talk with ecologists from multiple departments of the university, various NGOs and practitioners (all of whom I encouraged to join BES).

Alongside ecology, my interests include communications, equality and diversity, policy and public engagement. I helped organise and run the #EarthOptimism day at the University of Cambridge and have taken part in two science festivals which required me to dedicate time to working group meetings, prepare materials and to think creatively about how to communicate the wonder of ecology and science to the public, with restricted resources. I also learnt about engaging well-known brands for sponsorship. I was ready to speak my mind which ensured the involvement of the BES in the day.

I have experienced the various stages of an early career ecologist; student, graduate, volunteer, working as a research assistant and applying for jobs and PhDs. The opportunity to meet other early career ecologists and discuss their ideas is genuinely exciting. I would like to use their feedback to build on the already fantastic BES careers program.

ORDINARY MEMBER OF COUNCIL, EARLY CAREER REPRESENTATIVE



Josephine Walker
University of Bristol, UK

I am an infectious disease ecologist currently working in my first post-doc at the University of Bristol. I started my PhD in 2012, and joined BES a year later. Since then I have served on the Early Career Working Group and the Public Engagement Working Group, and travelled to Green Man festival as a BES roadie to share ecology with the public. As part of the Early Career Working Group I led the proposal, development, and presentation of a fellowship/grant writing workshop for early career ecologists. We're currently planning the next iteration of this workshop based on feedback from last year. I've also contributed to plans for the environmental audit that BES is conducting. This is one issue I'm particularly passionate about, and I think BES can set an example as a scientific organisation that is working to minimise its environmental impact.

For me, feeling part of the community of ecologists at BES is one of the most enjoyable parts of being a scientist. In addition, the support and resources that come from the group can be a great benefit for early career ecologists as we consider the next steps in our career paths. I am keen to continue to work to promote the needs and concerns of early career ecologists within BES and will bring creativity, experience, and enthusiasm to the role.

AWARD WINNERS



We offer a number of prizes to celebrate and recognise the talent within our community. To that end, we are excited to congratulate the following people on their effort and achievements.

BES EARLY CAREER PRIZE WINNERS 2016

The British Ecological Society every year awards a prize in each of its journals for the best paper written by an early career researcher.

HARPER PRIZE 2016

Martina Treurnicht

Environmental drivers of demographic variation across the global geographical range of 26 plant species Martina Treurnicht, Jörn Pagel, Karen J. Esler, AnneLise Schutte-Vlok, Henning Nottebrock, Tineke Kraaij, Anthony G. Rebelo, Frank M. Schurr (Journal of Ecology, 104:2, pp 331-342).



Journal of Ecology

ELTON PRIZE 2016

Roberto Salguero-Gómez

COMADRE: a global data base of animal demography Roberto Salguero-Gómez, Owen R. Jones, C. Ruth Archer, Christoph Bein, Hendrik de Buhr, Claudia Farack, Fränze Gottschalk, Alexander Hartmann, Anne Henning, Gabriel Hoppe, Gesa Römer, Tara Ruoff, Veronika Sommer, Julia Wille, Jakob Voigt, Stefan Zeh, Dirk Vieregg, Yvonne M. Buckley, Judy Che-Castaldo, David Hodgson, Alexander Scheuerlein, Hal Caswell, James W. Vaupel (Journal of Animal Ecology, 85:2, pp 371-384).



Journal of Animal Ecology

HALDANE PRIZE 2016

Pedro J. Bergamo

Flower colour and visitation rates of Costus arabicus support the 'bee avoidance' hypothesis for red-reflecting hummingbird-pollinated flowers Pedro J. Bergamo, André R. Rech, Vinícius L. G. Brito, Marlies Sazima (Functional Ecology, 30:5, pp 710-720).



Functional Ecology

SOUTHWOOD PRIZE 2016

Michael Becker

Sixty-year legacy of human impacts on a high Arctic ecosystem Michael S. Becker, Wayne H. Pollard (Journal of Applied Ecology, 53:3 pp 876-884).



Journal of Applied Ecology

ROBERT MAY PRIZE 2016

Gabriella Leighton

Just Google it: assessing the use of Google Images to describe geographical variation in visible traits of organisms Gabriella R. M. Leighton, Pierre S. Hugo, Alexandre Roulin, Arjun Amar (Methods in Ecology and Evolution, 7:9, pp 1060-1070).



Methods in Ecology and Evolution

AWARD WINNERS



BES AWARD 2017

Alan Gray

Our BES Award is made in recognition of exceptional service to the Society.



EQUALITY AND DIVERSITY CHAMPION 2017

Christine Maggs

This annual award recognises an individual or group who has campaigned to highlight the importance of equality and diversity and worked to make a difference or served as an inspiration to others.



ECOLOGICAL ENGAGEMENT AWARD 2017

Jane Stout

This award recognises an ecologist who has bridged the gap between ecology and other groups.



FOUNDERS' PRIZE 2017

Liza Comita

Our Founders' Prize commemorates the enthusiasm and vision of the Society's founders.



MARSH AWARD FOR ECOLOGY 2017

Sandra Lavorel

Awarded for an outstanding current research record that is having a significant impact on the development of the science of ecology or its application.



MARSH CHRISTIAN TRUST



HONORARY MEMBERSHIP 2017

May Berenbaum

Honorary membership is the highest honour we can give and it recognises an exceptional contribution at international level to the generation, communication and promotion of ecological knowledge and solutions.



HONORARY MEMBERSHIP 2017

Louise Vet

Honorary membership is the highest honour we can give and it recognises an exceptional contribution at international level to the generation, communication and promotion of ecological knowledge and solutions.



MARSH AWARD FOR CLIMATE CHANGE RESEARCH, 2017

Richard Pearson

Awarded for an outstanding contribution to climate change research.



MARSH CHRISTIAN TRUST



MARSH BOOK OF THE YEAR AWARD 2017

Tim Clutton-Brock

This award aims to recognise the contribution authors make to ecology.



MARSH CHRISTIAN TRUST



PUBLIC ENGAGEMENT AWARD

Arron Watson

Recognising the outstanding role members have played in the delivery of the Society's public engagement programme.



BES PRESIDENT'S MEDAL

Phil Warren

This prestigious honour was established in 1987 and is the personal gift of the President.



AWARD WINNERS

L'ORÉAL-UNESCO FOR WOMEN IN SCIENCE AWARD

Amy Austin

University of Buenos Aires
and Senior Editor of *Journal of Ecology*



EEF AWARD

Carlos Herrera

Estación Biológica de Doñana, CSIC



GFÖ WIEHE AWARD 2017

Michael Staab

University of Freiburg



GFÖ PHD AWARD 2017

Andreas H. Schweiger

University of Bayreuth



GFÖ MSC AWARD 2017

Annemarie Wurz

University of Göttingen



NOTES

Handwriting practice lines consisting of 20 horizontal dotted lines.

BES SPECIAL INTEREST GROUPS



AGRICULTURAL ECOLOGY GROUP

This group aims to facilitate knowledge exchange between both ecologists and academics.

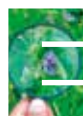
barbarasmithmail@gmail.com



AQUATIC ECOLOGY GROUP

This group aims to bring together all areas of aquatic ecology to promote and facilitate interdisciplinary working.

dannermarieclaire@gmail.com



CITIZEN SCIENCE GROUP

Bringing people together to support creativity in ecological research.

citizenscience@ceh.ac.uk



CLIMATE CHANGE GROUP

Developing a community of people working on climate change issues.

climate-sig@britishecologicalsociety.org



CONSERVATION ECOLOGY GROUP

Highlighting emerging conservation related issues to the widest possible audience.

conservation@britishecologicalsociety.org



ECOLOGICAL GENETICS GROUP

Forum to discuss and organise events related to ecological genetics.

gbeatty03@qub.ac.uk



FOREST ECOLOGY GROUP

Creating an international community of forest ecologists.

ajones@earthwatch.org.uk



MACROECOLOGY GROUP

This group provides a forum to unite researchers who work in, or are influenced by macroecology.

macro@britishecologicalsociety.org



MICROBIAL ECOLOGY GROUP

Forum uniting people who study and work in microbial ecology.

microbial@britishecologicalsociety.org



MOVEMENT ECOLOGY GROUP

This group provides a platform for facilitating exchange and collaborations in this wide-ranging, cross-disciplinary field of research.

l.borger@swansea.ac.uk



PARASITES & PATHOGENS GROUP

Bringing together people interested in parasite and pathogen ecology.

parasites@britishecologicalsociety.org



PEATLANDS RESEARCH GROUP

This group acts as a hub for a wide range of external partners and collaborators, helps to disseminate skills, knowledge and enthusiasm for all aspects of peatlands.

peatlands@britishecologicalsociety.org



PLANT ENVIRONMENTAL PHYSIOLOGY GROUP

Promoting the science and practice of plant environmental physiology.

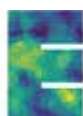
plant@britishecologicalsociety.org



PLANTS SOILS ECOSYSTEMS

A group for plant-soil interactions and their role in ecosystems, with a focus on biogeochemical cycling, community dynamics, and ecosystem functioning.

plantsoileco@britishecologicalsociety.org



QUANTITATIVE ECOLOGY GROUP

This group helps to develop skills and share methods to encourage ecological good practice.

quantitative@britishecologicalsociety.org



TEACHING AND LEARNING GROUP

A group for everyone involved in or interested in the teaching and learning of ecological science and related disciplines.

beslearning@britishecologicalsociety.org



TROPICAL ECOLOGY GROUP

This group facilitates communication between tropical ecologists, practitioners and policy.

tropical@britishecologicalsociety.org

GFÖ SPECIAL INTEREST GROUPS

Gfö The Ecological Society of
Germany, Austria
and Switzerland

SOIL ECOLOGY GROUP

Prof. Dr. Liliane Rueß
liliane.ruess@biologie.hu-berlin.de

Our group is a platform for scientific exchange. It is open to all interested soil ecologists, Gfö members as well as non-members.

COMPUTATIONAL ECOLOGY GROUP

Prof. Dr. Florian Hartig, Dr. Emanuel Fronhofer
<https://akcomputationalecology.wordpress.com>
<https://akcomputationalecology.wordpress.com>

Our group provides a platform for ecological modelling, ecological statistics and theoretical ecology.

FOREST ECOLOGY GROUP

Prof. Dr. Christian Ammer
christian.ammer@forst.uni-goettingen.de

Our group offers a platform for forest ecologists interested in research on forest ecosystem processes, forest ecosystem functioning and the provision of forest ecosystem goods and services.

CONSERVATION AND RESTORATION GROUP

Prof. Dr. Nina Farwig, Prof. Dr. Wolfgang Weisser
farwig@uni-marburg.de, wolfgang.weisser@tum.de

Our aim is to foster the exchange and cooperation between science and practice in conservation.

YOUNG MODELLERS IN ECOLOGY (YOMOS)



Cédric Scherer
contact@yomos.de

We are an organization for students (BS, MS, PhD) working in ecological modelling that facilitates knowledge exchange and provides networking opportunities.

MACROECOLOGY GROUP

Prof. Dr. Holger Kreft
hkraft@uni-goettingen.de

Our group aims at fostering macroecological research within the Gfö and is committed to providing a forum for young scientists and scientific collaborations.

AGROECOLOGY GROUP

PD Dr. Wolfgang Büchs
wolfgang.buechs@julius-kuehn.de

Scientific exchange about sustainable land-use, safeguarding and enhancing essential process flows and functions in agricultural ecosystems. Our aim is to connect basic and applied science and agricultural practice.

EXPERIMENTAL ECOLOGY GROUP

Prof. Dr. Manfred Küppers
kueppers@uni-hohenheim.de

We are interested in plant performance across scales. We aim to improve the integration of studies in controlled environments and studies performed under field conditions.

LANDSCAPE ECOLOGY GROUP

Prof. Dr. Rainer Waldhardt
rainer.waldhardt@umwelt.uni-giessen.de

Our group promotes exchange among and cooperation of landscape ecologists. Additional to pure biological studies, we are interested in inter- and transdisciplinary approaches.

ECOHYDROLOGY GROUP

Prof. Dr. Britta Tietjen
tietjen@zedat.fu-berlin.de

Our group is interested in ecohydrological modelling and the interface between water and vegetation.

ECOSYSTEM RESEARCH GROUP

Prof. Dr. Ansgar Kamen
ansgar.kahmen@unibas.ch

Our group aims to promote comprehensive approaches to ecosystem research, to survey and improve methodology, and it supports planning and implementation of longterm monitoring schemes.

POPULATION BIOLOGY GROUP

Dr. Niek Scheepens
niek.scheepens@biologie.uni-tuebingen.de
<http://www.gfö.org/en/node/169>

Our interest is in ecology, evolution, genetics and conservation of plant populations, and related disciplines.

DRYLAND RESEARCH GROUP

PD Dr. Anja Linstädter
anja.linstaedter@uni-koeln.de

Our group serves as a forum to discuss and distribute important research on dryland ecology.

ENVIRONMENTAL EDUCATION AND EDUCATION FOR SUSTAINABLE DEVELOPMENT GROUP

Prof. Dr. Franz-Xaver Bogner
franz.bogner@uni-bayreuth.de

Our focus is on research of theory-based biology education. Furthermore, our SIG supports RRI-initiatives (Responsible Research Interaction) and conservation outreach programmes.



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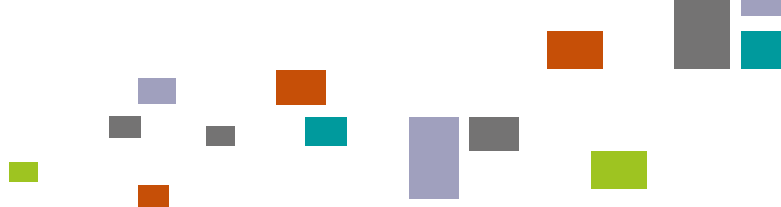
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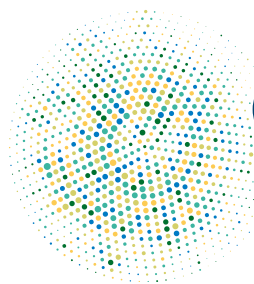


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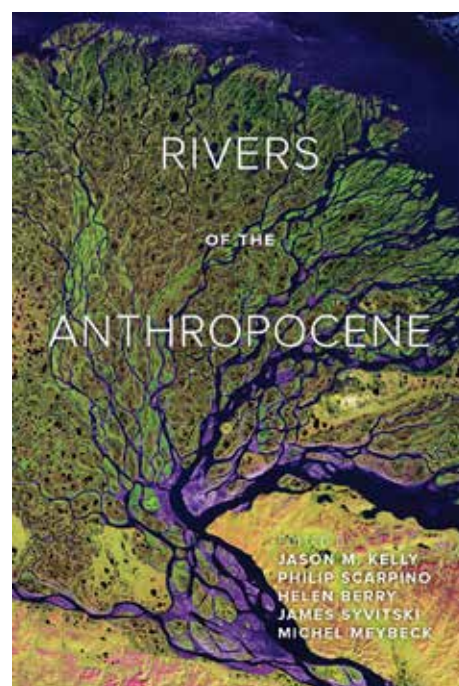


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