

Dear Colleagues and Friends,

Welcome to Milan! Milan is one of the most important and stylish cities in Italy. In recent times, Milan is experiencing a sort of rebirth: it has received national and international recognitions for being one of the cities with the best quality of life, where the urban redevelopment projects of the last few years have contributed in making it an extremely contemporary and interesting city.

The University of

Milano-Bicocca was founded as autonomous organization on June 10th 1998. The University was established with the aim of making Research the strategic foundation of all institutional activities. Research is meant as expansion of knowledge, as enhancement of training, a vehicle through which is organized the relationship with the territory, that also gives a strong contribution to the development of the productive system. Today, the University of Milano-Bicocca is a multidisciplinary University which trains professionals in various fields: economics and statistics, legal, scientific, medical, sociological, psychological and pedagogical.

At IALE2019 we are expecting 1000 delegates, from more than 60 countries, to hear 5 plenary presentations. We are hosting about 750 presentations in several parallel sessions and symposia. More than 200 posters will also be displayed during IALE 2019. Together we will focus on different aspects of landscape ecology and the challenges of the Anthropocene. Our sessions and symposia are clustered into twenty broad thematic areas: biocultural landscapes, biodiversity conservation, disturbances in landscapes, education & citizen science, from landscape pattern to functions, future: scenarios and new landscapes, geography and landscape ecology, green and blue infrastructures, history, dynamic and transformations of landscapes, landscape ecosystem functions and services, landscape governance, landscape modelling, landscape planning, restoration of habitats and landscapes, socio-economic-ecological systems, specific landscapes, technologies and landscape ecology, theory of landscape ecology, urban regions and vegetation science and landscape ecology. From these session, a number of special issues of scientific journals will be produced, illustrating the dedication of IALE community to record the ideas, results and conclusions of their presentations.

All delegates of IALE 2019 world congress are aware of world's current environmental problems, related largely to increases of human population, and the needs of mankind in the Anthropocene. In IALE 2019 we will unite researchers and practitioners from different disciplines to work together towards the common goal of working for an ecologically sustainable planet.

A special thanks to our symposia organizers, and to scientific and organizing committees, for their enthusiasm and for putting and together an exciting and stimulating scientific program. A grateful thanks to IALE International, our sponsors (Cariplo Foundation and MDPI Journals), to volunteer students who help the secretariat, and to the University of Milano-Bicocca.

Finally, we thank you congress delegates, for participating in IALE2019, and for building together an intellectually rich and diverse congress. We hope that you have a fruitful and rewarding week, and that your stay in Milan will be both scientifically and culturally memorable.

Kind Regards,

Emilio Padoa-Schioppa

Christine Fürst

Gioia Gibelli

Editor-in-Chief

Prof. Dr. Andrew Millington

Message from the Editor-in-Chief

Land is the only open access journal covering all aspects of land science, and it is a pioneering platform for publishing on land system science. Our editorial board is comprised of eminent scholars and we aim to publish high quality research and scholarship. By addressing important global issues across the broad sweep of land science, e.g., urbanization, land grabbing and ecosystem services, *Land* promotes an understanding which will lead to solutions that will benefit human wellbeing and environmental sustainability.

Aims and Scope

Land (ISSN 2073-445X) is an international and crossdisciplinary open access journal of land use/land change, land management, land system science and landscape, etc. It publishes reviews, regular research papers, communications and short notes, without restriction on the length of papers. Our aim is to encourage scientists to publish their experimental and theoretical research in as much detail as possible in order that results can be reproduced.

The scope of *Land* includes:

All aspects of land use and land cover change
Land systems science
Land-related issues in climate, ecology, environmental sciences and geosciences
Land management, including the application of ecosystem services approaches
Livelihoods, food security and supply chains in relation to land issues
Land tenure, including disputes and land grabs
Landscape planning, conservation and management

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Congress chairs

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Christine Fürst (*Martin Luther University Halle-Wittenberg, Germany; IALE International*)

Gioia Gibelli (*SIEP-IALE Italy*)

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Gloria Pungetti (*University of Sassari, Italy; University of Cambridge, UK*)

Conference secretariat

Società Cooperativa Opera d'Arte srl

via Arese 18 - 20159 MILANO

e mail: info@operadartemilano.it

Conference venue

University of Milano-Bicocca – Italy

Piazza dell'Ateneo Nuovo 1 – 2016 Milano

Registration & Information desk

The registration/information desk will be located in building U6, ground floor, and will remain open throughout the conference staffed during the following working times:

- | | |
|----------------------------------|---------------|
| • Monday 1 st July | 11:30 – 19:00 |
| • Tuesday 2 nd July | 08:00 – 18:00 |
| • Wednesday 3 rd July | 08:00 – 14:00 |
| • Thursday 4 th July | 08:00 – 18:00 |
| • Friday 5 th July | 08:00 – 16:00 |

Badges

For security reason and catering purposes please make sure you wear your conference badge.

Conference bags & delegate manuals

Please make sure that you insert a business card or a name card in your bag. Please also write your name in your delegate program, and do not leave either your book or bag unattended at the conference at any time. Free of charge replacements are not available.

Oral presentations

Oral presenters are asked to take the presentation to technician in slide centre as soon as possible after arrival and at least in the morning You are reminded to be in the room 5/10 minutes before the start of your session to meet with the session chair and check final details.

Poster sessions

Poster presenters should refer to information board in registration area to check which board number has been allocated to them. Appropriate material to hang the poster will be provided at registration desk. The organizer do not take any responsibility for posters not removed at the endo of the congress.

Messages

Messages for delegates received at registration desk will be posted on the message board at registration. You are welcome to use the message board to contact fellow delegates

Certificate of attendance

Certificate of attendance are available in your delegate material.

Refreshments & Drinks reception

The registration fee includes the welcome drink on Monday evening, coffee breaks and three light lunch on Tuesday, Thursday and Friday

Luggage room

On Monday and Friday there will be a luggage storage service. Please ask to registration desk.

Excursions and short courses

Instructions for excursions and short courses on Wednesday are available in the envelop distributed during registration

Language

The official language of the congress is English

Congress team contacts

Margherita del Castillo

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E-mail: jale2019.info@unimib.it

Code of Conduct

IALE2019 values the diversity of views, expertise, opinions, backgrounds, and experiences reflected among IALE members and the broader landscape ecology community, and is committed to providing a safe, productive and welcoming environment for all participants of IALE2019 World Congress. IALE meetings and events can serve as an effective forum to consider and debate science-relevant viewpoints in an orderly, respectful, and fair manner. This Code of Conduct is important to promoting diversity and creating an inclusive, supportive, and collaborative environment for all peoples.

All IALE meetings and events participants – including, but not limited to, attendees, speakers, volunteers, exhibitors, IALE staff, members of the media, vendors, and service providers (hereinafter “participants”) – are expected to abide by this IALE 2019 Code of Conduct. This Code of Conduct applies in all venues, including ancillary events and social gatherings, and on-line forums and discussions associated with the IALE2019.

Expected behaviour

- Treat all participants with kindness, respect and consideration, valuing a diversity of views and opinions (including those you may not share).
- Communicate openly, with respect for other participants, critiquing ideas rather than individuals.
- Refrain from demeaning, discriminatory, or harassing behaviour and speech directed toward other participants.
- Be mindful of your surroundings and of your fellow participants. Alert IALE2019 staff if you notice a dangerous situation or someone in distress.
- Respect the rules and policies of the meeting venue, IALE2019-contracted facility, or any other venue.

Unacceptable behaviour

- Harassment, intimidation, or discrimination in any form. Harassment includes speech or behaviour that is not welcome or is personally offensive. Behaviour that is acceptable to one person may not be acceptable to another, so use discretion to be certain respect is communicated. Harassment intended in a joking manner still constitutes unacceptable behaviour.
- Examples of unacceptable behaviour include, but are not limited to:
- Physical or verbal abuse of any participant
- Unwelcome or offensive verbal comments or exclusionary behaviour related to age, appearance or body size, employment or military status, ethnicity, gender identity and expression, individual lifestyle, marital status, national origin, physical or cognitive ability, political affiliation, sexual orientation, race, or religion
- Inappropriate physical contact
- Unwanted sexual attention
- Use of sexual or discriminatory images in public spaces or in presentations
- Deliberate intimidation, stalking, or following
- Harassing photography or recording, including taking photographs or recording of another individual's oral presentation or poster without the explicit permission of that individual and of IALE2019
- Sustained disruption of talks or other events
- Bullying behaviour
- Retaliation for reporting unacceptable behaviour

Immediate serious threat to public safety

Anyone experiencing or witnessing behaviour that constitutes an immediate or serious threat to public safety at any time should contact local law enforcement (by calling 112) and immediately notifying facility security.

Reporting Unacceptable Behaviour

If you are not in immediate danger but feel that you are the subject of unacceptable behaviour, have witnessed any such behaviour, or have other concerns, please notify an IALE2019 staff member (as soon as possible) who can work with appropriate IALE leadership to resolve the situation. All reports will be treated seriously and responded to promptly.

Once ESA is notified staff will discuss the details first with the individual filing the complaint, then any witnesses who have been identified, and then the alleged offender before determining an appropriate course of action. Confidentiality will be maintained to the extent that it does not compromise the rights of others.

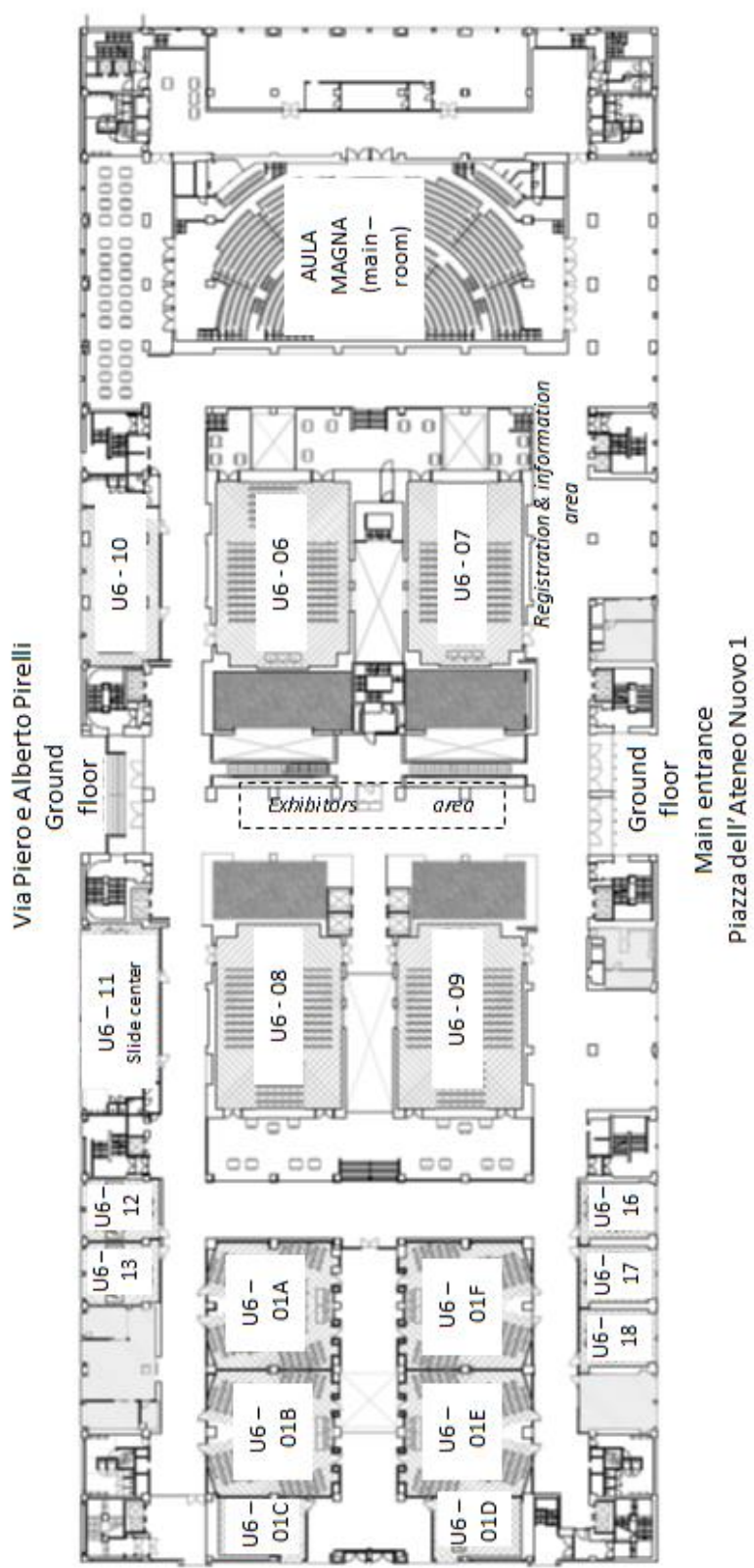
Consequences

Anyone requested to stop unacceptable behaviour is expected to comply immediately.

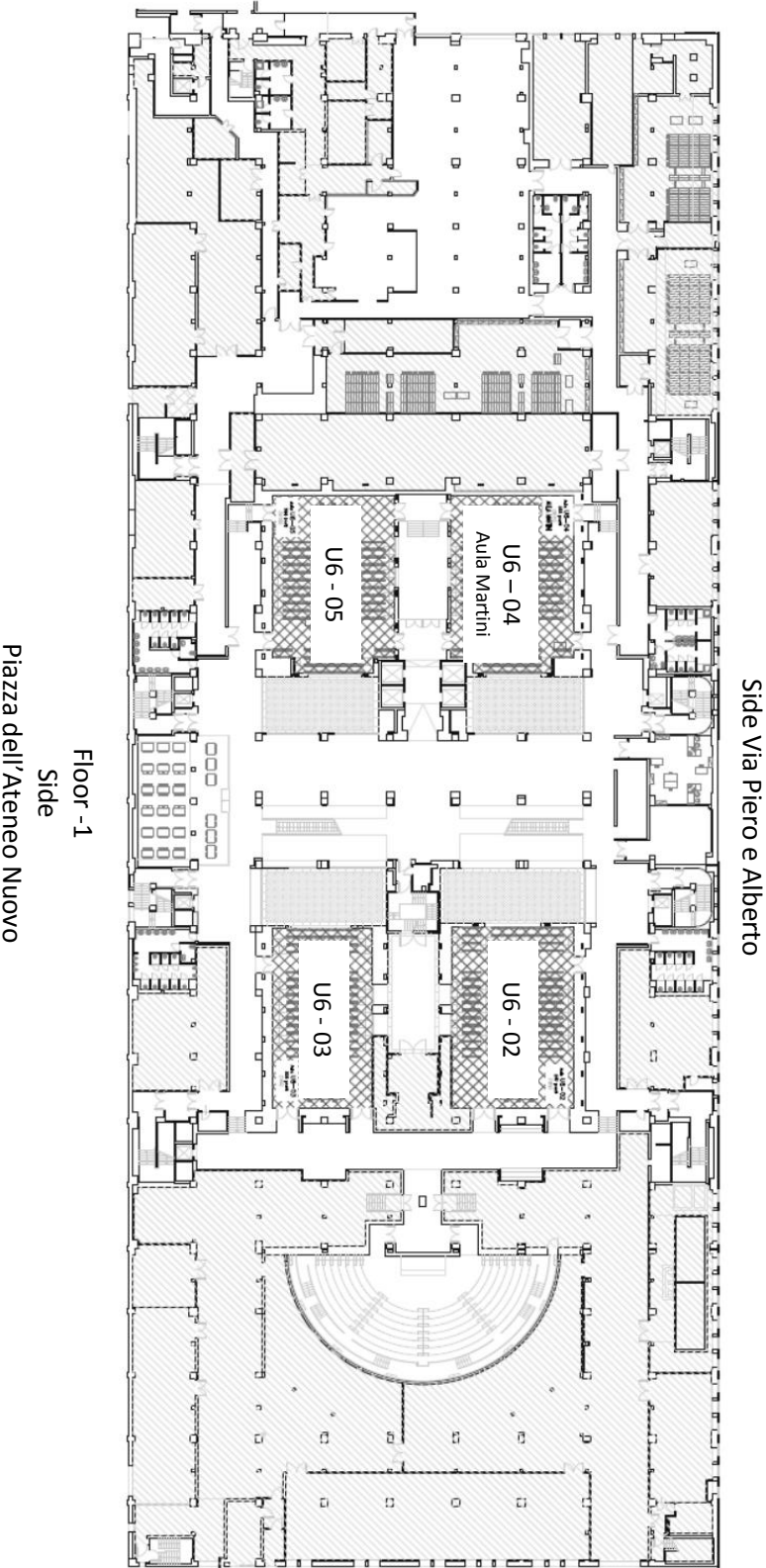
IALE2019 staff (or their designee) or security may take any immediate action deemed necessary and appropriate, including removal from the meeting or event without warning or refund.

Floorplans

Floorplans Ground Floor



Floorplans Floor -1



Plenary Speakers Biography and Abstracts

Landscape Ecology in a Changing Climate: Science, Society and Action

(Monday 1st July)

Harini Nagendra

Azim Premji University, India

In this talk, I look back at changes in the field of landscape ecology, many of which I have personally experienced as a landscape ecologist over the past twenty-five years. Landscape ecology has emerged as a leading area of study over the past decades, focused at the intersection of geography and ecology. This research area has witnessed impressive growth. Stimulated by advances in remote sensing technologies and computing capabilities, a detailed ecological understanding of pattern-to-process relationships has emerged over time. With time, it became clear that the study of landscape transformations requires a deep understanding of social, cultural and economic drivers of change. Understanding the role of biophysical and ecological processes is necessary, but by no means sufficient. Landscape ecology has creatively transformed itself in response to this challenge, blending insights from cultural ecology and human geography. In doing so, landscape ecology has changed in character, from a multi-disciplinary research domain, to one that is fundamentally inter-disciplinary.

In today's times, when climate change and urbanization are transforming the face of the earth in unprecedented ways, another change is required in the field. Landscape ecology is urgently needed to engage with, inform and stimulate action in diverse, creative, transdisciplinary ways. A major challenge for landscape ecologists is to engage with practice, education and action, and provide transformative research that can respond to these emerging and future needs. I draw on the changing landscape of academic literature, as well as my own work - based in India, but with collaborative research in South Asia, Latin America, Europe and the USA – to discuss changes in landscape ecology over a long time period, and outline some critical challenges for landscape ecologists in future decades.



Harini Nagendra bio sketch

Harini Nagendra is a Professor in Sustainability at Azim Premji University, Bangalore, India, where she anchors the Centre for Urban Sustainability in India. Over the past 20 years, she has been at the leading edge of research examining conservation in forests and cities from the perspective of both landscape ecology and social justice. For her interdisciplinary research and practice, she has received a number of awards including a 2009 Cozzarelli Prize from the US National Academy of Sciences, 2013

Elinor Ostrom Senior Scholar award, and 2017 Clarivate Web of Science award. Her publications include the books "Nature in the City: Bengaluru in the Past, Present and Future" (Oxford University Press, 2016) and "Cities and Canopies: The Tree Book of Indian Cities" (Penguin, 2019) as well as recent publications in Nature, Nature Sustainability, and Science. She writes regularly on public science issues in newspapers, blogs and other fora. Professor Nagendra engages with international science and policy through her current and past participation on the Future Earth Steering Committees of Diversitas, Global Land Project, and Programme for Ecosystem Change and Society.

Managing Earth's Landscapes Towards a Better Future

Erle Ellis

University of Maryland

(Monday 1st July)

For millennia, human societies have been reshaping landscapes to sustain themselves. Now, anthropogenic landscapes cover more than three quarters of Earth's land, wild habitats are shrinking, human populations continue to grow, the planet is heating up, and species are rapidly going extinct. Under such conditions, is it still possible to make enough space for nonhuman nature to thrive together with humanity over the long term? To move towards a better future for life on land we must first recognize that human societies gained the capacity to grow and develop over the long-term not by using up and destroying environments, but rather by evolving ever greater scales of social and material exchange supported by increasingly productive agroecosystems. Can this capacity to evolve economies of scale be leveraged to create a better future not only for humanity but also for nonhuman nature? The answer depends on all of us. The nature we sustain on this planet will be the nature we work to make space for together.



Erle Ellis bio sketch

Erle Ellis is Professor of Geography and Environmental Systems at the University of Maryland, Baltimore County (UMBC) where he directs the Laboratory for Anthropogenic Landscape Ecology (<http://ecotope.org/people/ellis>). His research investigates the ecology of human landscapes at local to global scales to inform sustainable stewardship of the biosphere in the Anthropocene. His recent work examines long-term changes in Earth's ecology produced by human societies (anthroecology; anthromes). Other projects include online tools for global synthesis of local knowledge (GLOBE) and inexpensive tools for mapping landscapes in 3D (Ecosynth). He is a member of the Anthropocene Working Group of the International Commission on Stratigraphy, a Fellow of the Global Land Programme and a Senior Fellow of the Breakthrough Institute. He teaches environmental science and landscape ecology at UMBC, and has taught ecology at Harvard's Graduate School of Design. His first book, *Anthropocene: A Very Short Introduction* was published by Oxford University Press in 2018.

Anthropocene Challenges to Urban systems, models, actors, landscapes; Metropolis to Megacity: a dialogue between teacher and scholar.

(Thursday 2nd July)

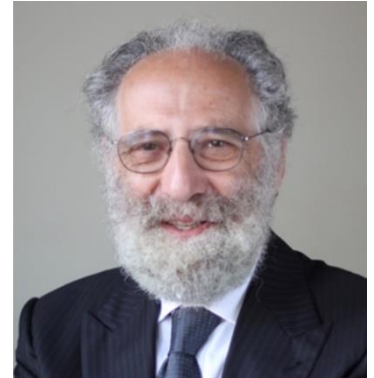
Grahame Shane bio (the “teacher”)

Grahame Shane studied at the Architectural Association, London (AA Dipl 1969), and at Cornell for an M.Arch (Urban Design 1972) and an Architectural and Urban History PhD (1978) with Professor Colin Rowe.

He taught at the AA in the 1970’s for Alvin Boyarsky and at Bennington College, before starting at Columbia in the 1980’s, in Urban Design since 1991.

He has lectured widely and published in Europe, USA and Asia.

He co-edited “*Sensing the 21st Century City: Close-Up and Remote*” (Architectural Design 2005) and is the author of *Recombinant Urbanism: Conceptual Modeling in Architecture, Urban Design and City Theory* (2005) and *Urban Design Since 1945; a Global Perspective* (2011).



Ed Wall bio (the “scholar”)

Ed is Academic Leader Landscape at the University of Greenwich and Visiting Professor at Politecnico di Milano. In 2017 he was City of Vienna Visiting Professor 2017: Urban culture, public space and the future – Urban equity and the global agenda (TU Wien/SKuOR). He is currently an external examiner at the Architecture Association in London.

Ed completed his PhD in the Cities Programme at the London School of Economics (LSE) exploring relations between different ways that public spaces have been made and remade in London. Ed initially trained in landscape architecture in Manchester (MMU) and urban design, under Michael Sorkin, in New York (CCNY).

Ed has written widely, including for journals *Urban* (2013), *Landscape: The Journal of the Landscape Institute*



(2011, 2012) and *Topos* (2011) and essays for *Teaching Landscape* (2018), *Representing Landscapes: Analogue* (2018), *OASE 98*(2017), *Questo Metropolitan Architecture* (2015), *Revising Green Infrastructure: Concepts Between Design and Nature* (2014), *Educating Architects* (2014) and *Infrastructural Urbanism: Addressing the In-Between* (2011). Ed has written several books, most recently he has co-edited, with Tim Waterman, *Landscape and Agency* (2017). In 2015 he founded, with Alex Malaescu, *Testing-Ground: The Journal of Landscapes, Cities and Territories*.

Currently, Ed is guest editing a future landscape issue of Architectural Design (AD).

A voice outside landscape ecology - From genetics to artificial intelligence: the brilliant intuitions of Primo Levi on the destiny of Man

Gianfranco Pacchioni

University Milano-Bicocca

(Friday 5th July)

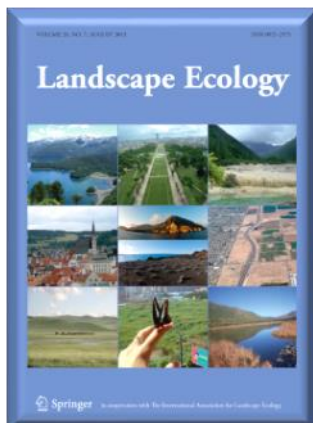
Artificial intelligence, human genetics, brain-machine interface, tissue engineering, are just some of the several technologies that are profoundly modifying the relationship between Man and the surrounding environment at a speed never experienced before. Future scenarios are largely unpredictable, except that our species is rapidly evolving towards something completely different, with no parallel in the entire history of humanity. Perhaps *Homo sapiens* is coming to an end, and is going to be replaced by something that we do not know yet how to define. But there are people who had very keenly sensed this, and who tried to warn us: Primo Levi. In his fantastic novels, written more than half a century ago, the author of *If This is a Man* has clearly predicted processes and technologies that are gradually taking shape, and are becoming reality. With consequences for our society and environment that at the moment we can only try to imagine, not without some anxiety.



Gianfranco Pacchioni bio-sketch

Gianfranco Pacchioni received his PhD at the Freie Universität Berlin in 1984. He worked at the IBM Almaden Research Center, and at the Technical University of Munich. Since 2000 he is Full Professor at the University of Milano Bicocca where he is presently Vice Rector for Research and where he has been Director of the Department of Materials Science for several years. He has published more than 500 papers and given about 400 invited talks on the electronic structure of oxides and their surfaces and interfaces, defects in oxides, supported metal clusters, and catalysis. His work has received 23.000 citations, with an h-index of 80 (source: Web of Science). He received several awards and is Fellow of the Accademia Nazionale dei Lincei (2014), the Accademia Europaea (2012), and the European Academy of Sciences (2009).

Exhibitors



Springer Journal "Landscape Ecology"

Springer journal **Landscape Ecology** is the flagship journal of the **International Association for Landscape Ecology**. It publishes theoretical, methodological, and empirical studies that help better understand and improve the ecology and sustainability of landscapes.

Oxford University Press

Oxford University Press publishes some of most respected and prestigious books and journals in the world. A wide range of current and relevant new titles are on display at the meeting. Please visit our booth or www.oup.com to take advantage of a 30% discount (use code EXIALE19 which is valid for 2 months).

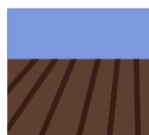
OXFORD
UNIVERSITY PRESS

We are particularly delighted to announce the publication this week of *Essentials of Landscape Ecology* (by Kimberly With), a major new resource for students and instructors of landscape ecology. The author is attending the conference in person and will be available to sign advance copies of her book.



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land

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climate

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MDPI

MDPI is an academic open access publisher of peer-reviewed journals established in 1996 and based in Basel, Switzerland. MDPI publishes 205 diverse peer-reviewed, scientific, open access, electronic journals, including Sustainability (launched in 2009; Impact Factor 2.075), Climate (launched in 2013; Scopus 1.95), Land (launched in 2012; Scopus 2.15). MDPI has published the research of 263,500 individual authors, and become one of the leading open access publishers in the world. All our content is open access, distributed under a Creative Commons License. MDPI is a member of COPE, STM and OASPA

CONGRESS PROGRAM

MONDAY, 1st July 2019

11.30	Registration opening Building U6, ground floor
14:30 -15:00	Congress Opening Room: Aula Magna
15:00 – 15:45	PLENARY TALK Room: Aula Magna Landscape Ecology in a Changing Climate: Science, Society and Action Harini Nagendra <i>Azim Premji University, India</i>
	<i>Coffee break</i>
16:15 – 17:00	PLENARY TALK Room: Aula Magna Managing Earth's Landscapes Towards a Better Future Erle Ellis <i>University of Maryland, USA</i>
17:00 – 18:30	IALE missions, visions, awards and travel supports <i>Chaired by Christine Fürst and Rob Scheller</i>
18:30 – 19:00	Poster session 1 Groundfloor
19:00	Welcome cocktail

TUESDAY, 2th July 2019

8.30-10.00	PLENARY TALK Anthropocene Challenges to Urban systems, models, actors, landscapes; Metropolis to Megacity: a dialogue between teacher and scholar. Grahame Shane and Ed Wall
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Tuesday, 2 July 2019

10.30-12.30	Symposium 19 - Promoting Ecosystem Services for Sustainable Development Goals Room: Aula Magna Session Organisers: Wenwu Zhao ¹ , Yihe Lu ² , Manish Kumar Goyal ⁵ , Francesco Cherubini ³ , Walter Musakwa ⁴ , Richard Ross Shaker ⁶ , Stefani Daryanto ⁷ <i>¹Faculty of Geographical Science, Beijing Normal University, ²Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, ³Norwegian University of Science and Technology, ⁴University of Johannesburg, ⁵Indian Institute of Technology Indore, ⁶Ryerson University, ⁷Indiana University – Purdue University Indianapolis</i>
10.30-10.45	Introduction to Symposium 19
10.45-11.00	T_0982 The impact urban expansion on the environment in Harare, Zimbabwe Walter Musakwa ¹ , Innocent Chirisa ² , Emmanuel Fundisi ³ ¹ Department of Town and Regional Planning, University of Johannesburg, ² University of Zimbabwe, ³ Department of Geography and Energy Studies University of Johannesburg
11.00-11.15	T0042 Linking ecosystem services with Sustainable Development Goals based on expert knowledge Wenwu Zhao ¹ , Siqi Yang ¹ , Ting Hua ¹ ¹ Beijing Normal University
11.15-11.30	T0055 Effects of vegetation exposure on the well-being of urban inhabitants Cynnamon Dobbs ¹ , Carolina Cordova ¹ ¹ Center for modeling and monitoring ecosystems, Universidad Mayor
11.30-11.45	T0126 Spatiotemporal patterns, relationships, and drivers of China's agricultural ecosystem services from 1980 to 2010: A multiscale analysis Deyong Yu ¹ ¹ Beijing Normal University
11.45-12.00	T0521 The role of Landscape sustainability science within the framework of forest Biodiversity and global change impacts Luque Sandra ¹ ¹ IRSTEA-National Research Institute of Science and Technology for Environment and Agriculture UMR TETIS Land, environment, remote sensing and spatial information
12.00-12.15	T0280 Worldwide patterns of ecosystem services and environmental conservation based on the Human Development Index Ricardo Martinez-Prentice ¹ , Carlos Martínez-Núñez ² ¹ Independent researcher, ² University of Jaén
12.15-12.30	T0332 Pathways from payments for ecosystem services to positive socioeconomic outcomes Xutong Wu ¹ ¹ Peking University

Tuesday, 2 July 2019

10.30-12.30	<p style="text-align: center;">Symposium 30 - Mapping and monitoring farmland biodiversity and ecosystem services</p> <p style="text-align: center;">Room: U6 - 02</p> <p style="text-align: center;">Session Organisers: Felix Herzog¹, Yunhui Liu², Majid Iravani³, Tian Xiang Yue⁴</p> <p style="text-align: center;">¹Agroscope, ²China Agricultural University, ³University of Alberta / Alberta Biodiversity Monitoring Institute, ⁴Chinese Academy of Sciences</p>
10.30-10.45	Introduction to Symposium 30
10.45-11.00	<p>T0743 The past present and future fragmentation in the Swedish landscape, as contribution to loss of biodiversity</p> <p>Anna Allard¹, Henrik Hedenås¹, Marcus Hedblom², Sven Adler¹, Pernilla Christensen¹ ¹Landscape Analysis, Forest Resource management, SLU, Umea, ²Landscape Analysis, Forest Resource management, SLU, Uppsala</p>
11.00-11.15	<p>T0835 Combining remote sensing and field surveys in the Austrian farmland biodiversity monitoring "ÖBM Kulturlandschaft"</p> <p>Stefan Schindler¹, Gebhard Banko¹, Dietmar Moser¹, Martin Neuwirth¹, Stefan Lackner¹, Roland Grillmayer¹ ¹Environment Agency Austria</p>
11.15-11.20	<p>T0442 Shattered agricultural landscapes: from diverse structure to uniformity and fragmentation: analyses of two data-sets of BINATS I and II</p> <p>Kathrin Pascher¹, Christa Hainz-Renetzeder², Bärbel Pachinger³, Thomas Frank¹ ¹University of Natural Resources and Life Sciences, Vienna (BOKU), Department of Integrative Biology and Biodiversity Research, Institute of Zoology, ²University of Natural Resources and Life Sciences, Vienna (BOKU), Department of Landscape, Spatial and Infrastructure Sciences, Institute of Landscape Development, Recreation and Conservation Planning (ILEN), ³University of Natural Resources and Life Sciences, Vienna (BOKU), Department of Integrative Biology and Biodiversity Research, Institute of Integrative Nature Conservation Research</p>
11.20-11.25	<p>T0463 Progress in farmland biodiversity monitoring in Germany</p> <p>Petra Dieker¹, Heike Kappes¹, Sebastian Klimek¹, Jens Dauber¹ ¹Thünen Institute of Biodiversity</p>
11.25-11.30	<p>T0813 Linking farmland bird species to land use data in a national landscape monitoring programme</p> <p>Christian Pedersen¹, Svein Olav Krogli¹ ¹Norwegian Institute of Bioeconomy Research</p>
11.30-11.45	<p>T0038 Farmland biodiversity monitoring for improving agri-environmental policy</p> <p>Felix Herzog¹, Klaus Ecker², Alex Indermaur¹, Gisela Lüscher¹, Susanne Riedel¹, Eliane Meier¹</p> <p>¹Agroscope, ²Swiss Federal Institute for Forest, Snow and Landscape Research WSL</p>
11.45-12.00	<p>T0731 Assessing farmland ecosystem services in Canadian prairies: contributing knowledge to decision-making systems</p> <p>Majid Iravani^{1,2}, Marian Weber³, Shannon R. White², Monireh Faramarzi¹ ¹Watershed Science Modelling Laboratory, Department of Earth and Atmospheric Sciences, Faculty of Science, University of Alberta, Canada, ²Alberta Biodiversity Monitoring Institute, Department of Biological Sciences, University of Alberta, Canada, ³InnoTech Alberta, Canada</p>
12.00-12.15	<p>T0675 Exploring long term monitoring data to establish agro-ecological patterns in grassland at landscape scales for comparison with innovative grassland farming practices.</p> <p>Lisa Norton</p>
12.15-12.30	<p>T0810 High Nature Value Farmland Monitoring: A closer look uncovers different trends in German farmland biodiversity</p> <p>Armin Benzler¹, Daniel Fuchs² ¹Federal Agency for Nature Conservation (BfN) Germany, ²PAN GmbH</p>

Tuesday, 2 July 2019

10.30-12.30	<p style="text-align: center;">Symposium 10 - Using landscape simulation models to help balance conflicting goals in a changing forest: from timber production to carbon sequestration and biodiversity conservation</p> <p style="text-align: center;">Room: U6 - 03</p> <p style="text-align: center;">Session Organisers: Anouschka Hof¹, Miguel Montoro Girona², Caren Dymond³</p> <p style="text-align: center;">¹Wageningen University, ²Swedish University of Agricultural Sciences, ³Ministry of Forests, Lands and Natural Resource Operations, Government of British Columbia</p>
10.30-10.45	Introduction to Symposium 10
10.45-11.00	<p>T0575 The effect of climate, the modern land-use regime, and alternative future scenarios on forest carbon in New England, USA</p> <p>Matthew Duveneck¹, Jonathan Thompson¹ ¹Harvard Forest, Harvard University</p>
11.00-11.15	<p>T0421 Are there potential conflicts among renewable energy, biodiversity, and ecosystem services? Scenario analysis of land use management and selection among renewable energy alternatives</p> <p>Chihiro Haga¹, Marimi Maeda¹, Takanori Matsui¹, Takashi Machimura¹ ¹Osaka University</p>
11.15-11.30	<p>T0119 Economic benefits of mitigating climate change through adaptive planting in forestry</p> <p>Caren Dymond¹, Krysta Giles-Hansen², Patrick Asante¹ ¹Government of British Columbia, ²Ecora</p>
11.30-11.45	<p>T0510 Forest decision support system as tools for multi-objective landscape level planning - applications of the Swedish Heureka system</p> <p>Johanna Lundström¹, Karin Öhman¹, Tomas Lämås¹ ¹Swedish University of Agricultural Sciences</p>
11.45-12.00	<p>T0043 Application of the space-for-time substitution method in validating long-term biomass predictions of a forest landscape model</p> <p>Jun Ma¹, Xiangming Xiao², Rencang Bu³, Yuanman Hu³ ¹Fudan University, ²University of Oklahoma, ³Institute of Applied Ecology, Chinese Academy of Sciences</p>
12.00-12.15	<p>T0108 Disturbance interaction research within forested landscapes</p> <p>Fortin Marie-Josée¹, Brian Sturtevant² ¹University of Toronto, ²Institute for Applied Ecosystem Studies, Northern Research Station, USDA Forest Service</p>
12.15-12.30	<p>T0558 The Scandinavian mountains intact forest landscape green infrastructure</p> <p>Johan Svensson¹, Jakub Witold Bubnicki², Bengt Gunnar Jonsson³, Grzegorz Mikusinski¹ ¹Swedish University of Agricultural Sciences, ²Mammal Research Institute Polish Academy of Sciences, ³Mid Sweden University</p>

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10.30-12.30	<p style="text-align: center;">Symposium 09 - Scoping with future challenges in mountain landscapes</p> <p style="text-align: center;">Room: Aula Martini (U6 - 04)</p> <p style="text-align: center;">Session Organisers: Uta Schirpke^{1,2}, Genxu Wang³, Jie Gong⁴, Ulrike Tappeiner^{1,2}, Georg Leitinger¹, Emilio Padoa-Schioppa⁵, Fausto Manes⁶, Per Angelstam⁷</p> <p style="text-align: center;">¹University of Innsbruck, Department of Ecology; ²Eurac Research, Institute for Alpine Environment, ³Institute of Mountain Hazards and Environment, Chinese Academy of Sciences, ⁴Lanzhou University, ⁵University of Milano-Bicocca, ⁶University of Roma - La Sapienza, ⁷Swedish University of Agricultural Sciences</p>
10.30-10.45	Introduction to Symposium 09
10.45-11.00	<p>P0135 Benefits beyond borders: global progress with transboundary conservation in mountain areas</p>

	Bastian Bertzky ¹ , Lucy Bastin ¹ , Melanie Weynants ¹ , Daniel Viviroli ¹ ¹ <i>European Commission, Joint Research Centre (JRC), Ispra, Italy</i>
11.00-11.15	T0881 Ecosystem services in the European Alps – a comparison across different socio-ecological sites Riccardo Santolini ¹ , Lukas Egarter Vigl ² , Stefan Marzelli ³ , Mauro Masiero ⁴ , Annemarie Polderman ⁵ , Tadej Kogovsek ⁶ ¹ <i>Università di Urbino</i> , ² <i>EURAC</i> , ³ <i>Ifuplan</i> , ⁴ <i>Università di Padova</i> , ⁵ <i>Institute for Interdisciplinary Mountain Research Austrian Academy of Sciences</i> , ⁶ <i>The Institute of the Republic of Slovenia for Nature Conservation</i>
11.15-11.30	T0753 Networks of Protected Areas as governance instrument for sustainable territorial development and green economy Andrea Omizzolo ¹ , Luca Cetara ¹ , Maria Prezioso ² , Maria Coronato ² ¹ <i>Eurac Research</i> , ² <i>University of Rome "Tor Vergata"</i>
11.30-11.45	T0326 Land use intensification rather than land cover change affects ecosystem services provision in the river Adige basin (Italy) Mattias Gaglio ¹ , Elisa Soana ¹ , Vassilis Aschonitis ² , Giuseppe Castaldelli ¹ , Elisa Anna Fano ¹ ¹ <i>Department of Life Sciences and Biotechnology, University of Ferrara</i> , ² <i>Institute of Soil and Water Resources, Hellenic Agricultural Organization Demeter</i>
11.45-11.50	T0947 Valuation of ecosystem services in an alpine protected area: the case of the Gran Paradiso National Park Emilio Padoa-Schioppa ¹ , Bruno Bassano ² , Ramona Viterbi ² , Claudia Canedoli ¹ ¹ <i>Department of Earth and Environmental Sciences, University of Milano-Bicocca</i> , ² <i>Gran Paradiso National Park</i>
11.50-11.55	T0026 Biodiversity conservation as a condition for sustainable livelihoods Agnieszka Nowak ¹ ¹ <i>Institute of Geography and Spatial Management, Jagiellonian University in Kraków</i>
11.55-12.00	T0221 Changes in the food supply capacity of alpine grassland ecosystem: A dialectic synthesis of natural and anthropogenic drivers Yi-ping Fang ¹ ¹ <i>Institute of Mountain Hazards & Environment, Chinese Academy of Sciences</i>
12.00-12.15	T_8813 Plant responses in reproductive phenology to warming and cooling in alpine grassland community Yan Yang ¹ , Fei Ran ¹ , Genxu Wang ¹ ¹ <i>Institute of Mountain Hazards and Environment, CAS</i>
12.15-12.30	T0775 Drivers of orchid population changes in the Alps under a warming climate Costanza Geppert ¹ , Giuseppe Melchiori ¹ , Giorgio Perazza ² , Filippo Prosser ² , Lorenzo Marini ¹ ¹ <i>DAFNAE, University of Padova, Viale dell'Università 16, 35020 Legnaro, Padova, Italy</i> , ² <i>Museo Civico di Rovereto, Borgo Santa Caterina, 41, 38068 Rovereto, Trento, Italy</i>

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10.30-12.30	<p style="text-align: center;">Symposium 50 - Disturbance, degradation, and restoration in fragile ecosystems: Implications for resource distribution and ecosystem service</p> <p style="text-align: center;">Room: U6 - 05</p> <p style="text-align: center;">Session Organisers: Junran Li¹, Sujith Ravi², Shiliang Liu³, Yihe Lv⁴</p> <p style="text-align: center;">¹<i>The University of Tulsa, Tulsa, OK, USA</i>, ²<i>Temple University, Philadelphia, PA, USA</i>, ³<i>Beijing Normal University</i>, ⁴<i>Research Centre for Eco-environment Sciences, Chinese Academy of Sciences</i></p>
10.30-10.45	Introduction to Symposium 50
10.45-11.00	T0005 Landscape identity post-wildfire in mediterranean ecosystems: study cases at the coastal range in central Chile Edilia Jaque Castillo ¹ , Sandra Fernández ¹ , Carolina Ojeda Leal ² ¹ <i>Universidad de Concepcion</i> , ² <i>Universidad Católica de la Santísima Concepción</i>
11.00-11.15	T0029 The effects of landscape pattern evolution in Liaohe estuary to changes on water quality Jing Kang ¹ ¹ <i>National Marine Environment Monitoring Center</i>

11.15-11.30	T0041 Degradation, disturbance and restoration of dragon's blood forests on Socotra Island Petr Maděra ¹ , Daniel Volařík ¹ , Zdeněk Patočka ¹ , Hana Kalivodová ¹ , Petr Vahalík ¹ , Hana Habrová ¹ ¹ Mendel University in Brno
11.30-11.45	T0053 Landscape changes of Dianchi Lakesides driven by ecological restoration projects, Southwest China Zhaolu Wu ¹ , Huiling Shi ¹ , Yanan Zhang ¹ ¹ School of Ecology and Environmental Sciences & Yunnan Key Laboratory for Plateau Mountain Ecology and Restoration of Degraded Environments, Yunnan University
11.45-12.00	T0143 Construction land expansion and its impact on regional vegetation dynamics in Southwest China Shiliang Liu ¹ , Yongxiu Sun ¹ , Lumeng Liu ¹ , Yuhong Dong ¹ , Shikui Dong ¹ , Yi An ¹ ¹ Beijing Normal University
12.00-12.15	T0208 Cascading effects of tropical deforestation on pollen-mediated gene flow in a hummingbird-pollinated plant species Felipe Torres-Vargas ¹ , Adam S. Hadley ² , F. Andy Jones ² , Matt G. Betts ² , Helene H. Wagner ¹ ¹ University of Toronto, ² Oregon State University
12.15-12.30	T0220 Forest cover change after 17 years of Participatory Forest Management implementation in Malawi Monica Fides Gondwe ¹ , Moses Azong Cho ² , Paxie Wanangwa Chirwa ¹ ¹ Department of Plant and Soil Sciences, University of Pretoria, Plant Sciences Complex, Pretoria 0002, South Africa, ² Earth Observation group, Natural Resources, and Environment, Council for Scientific and Industrial Research (CSIR), Building 33 CSIR Pretoria, P.O. Box 395, Pretoria, South Africa

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10.30-12.25	Symposium 45 - Conservation in the city Room: U6 -06 Session Organisers: Heather Sander ¹ ¹ University of Iowa
10.30-10.40	Introduction to Symposium 45
10.40-10.45	P0018 Changes in spider assemblages and their preys along an urbanization gradient in the city of Torino (NW-Italy) Elena Piano ¹ , Marco Isaia ¹ ¹ Department of Life Science and Systems Biology, University of Turin
10.45-10.50	P0058 Effects of Urbanization on Reproductive Success in Common Milkweed Sophie Breitbart ¹ , Helene Wagner ¹ , Marc Johnson ¹ ¹ University of Toronto Mississauga
10.50-10.55	P0109 Influence of urban tree species and noise levels on of Brasilia city's avifauna, Brazil Mayara Machado Guimarães ¹ , Mayara Machado Guimarães ¹ , Rodrigo Studart Corrêa ¹ , João Carlos Castro Pena ² ¹ Universidade de Brasília, ² Unesp, Brazil
10.55-11.00	P0195 Conservation of bats along an urbanization gradient: The effect of vegetation structure, buildings and artificial light Marcela Suarez-Rubio ¹ , Susanne Reier ¹ , Emilia Höfinger ¹ , Alexander Bruckner ¹ ¹ University of Natural Resources and Life Sciences (BOKU)
11.00-11.15	T0523 Disentangling the influences of urban environmental attributes on bird morphological and life-history traits João Carlos Castro Pena ¹ , Otso Ovaskainen ² , Ian MacGregor-Fors ³ , Camila Palhares Teixeira ⁴ , Milton Cezar Ribeiro ¹ ¹ Spatial Ecology and Conservation Lab, UNESP, ² University of Helsinki, ³ Instituto de Ecología A.C., ⁴ Unifem
11.15-11.30	T0319 Dimming of LED street-lights facilitates dark corridors for nocturnal insects and bats

	Bolliger Janine ¹ , Pazur Robert ¹ ¹ WSL Swiss Federal Research Institute
11.30-11.45	T0826 Microhabitat Pattern for Biological Conservation--Taking the Planning and Design of Beijing Daxing Country Park as an Example Tingting Huang ¹ , Ying Zhang ¹ , Ruodong Han ¹ ¹ Beijing Forestry University
11.45-12.00	T0327 The effect of landscape history on contemporary conservation efforts in urban landscapes Marié J. du Toit ¹ , Johan Kotze ² , Sarel Cilliers ¹ ¹ Unit for Environmental Sciences and Management, North-West University, ² Faculty of Biological and Environmental Sciences, Ecosystems and Environment Research Programme, University of Helsinki
12.00-12.15	T0911 Restoration Ecology techniques to improve Urban Nature: A literature review. Chiara Catalano ¹ , Francesca Bretzel ² , Nathalie Baumann ¹ , Riccardo Guarino ³ ¹ IUNR, Zurich University of Applied Science, Wädenswil, ² IRET, Italian National Council of Research, Pisa, ³ STEBICEF, University of Palermo, Palermo
12.15-12.20	P0028 Social and ecological drivers of change over time in urban forest patches across five North American cities Anita T Morzillo ¹ , Michelle Johnson ² , Lea Johnson ³ , Lindsay Campbell ² , Myla Aronson ⁴ ¹ University of Connecticut, ² US Forest Service, ³ University of Maryland, ⁴ Rutgers University
12.20-12.25	P0108 Consistent versus episodic management and the long-term fate of ecological restoration in urban forest patches Lea Johnson ¹ , Steven Handel ² ¹ University of Maryland, ² Rutgers University

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10.30-12.30	<p>Symposium 13 - Addressing the challenges of the Anthropocene with strategic planning: novel ways to couple ecological sciences and territorial governance</p> <p>Room: U6 - 07</p> <p>Session Organisers: Hersperger Anna M.¹, Grădinaru Simona R.², Pierri Daunt Beatriz³ ¹Swiss Federal Research Institute WSL, ²University of Bucharest, ³State University of São Paulo</p>
10.30-10.45	Introduction to Symposium 13 – Anna Hersperger
10.45-11.00	T0724 From strategic to operational: innovative approaches to integrate ecosystem service knowledge in urban planning Chiara Cortinovis ¹ , Davide Geneletti ¹ ¹ University of Trento
11.00-11.15	T0733 A National Strategic Plan for Ecological Security for China Liyan Xu ¹ , Xuesong Xi ² , Ke Liu ¹ , Dihua Li ¹ , Kongjian Yu ¹ ¹ Peking University, ² China Agricultural University
11.15-11.30	T0896 Urban and rural Landscape Plans at the municipal level. Towards a nature based planning/designing action. Carmela Canzonieri ¹ ¹ Independent researcher
11.30-11.45	T0062 Town Ecology: For the Land of Towns and Vilages Richard T. T. Forman ¹ ¹ Harvard University
11.45-12.00	T0012 Biodiversity Offsets - European Perspectives on No Net Loss of Biodiversity and Ecosystem Services Wolfgang Wende ¹ ¹ Leibniz Institute of Ecological Urban and Regional Development
12.00-12.15	T0063 The role of land-use and environmental policies in a landscape of forest persistence and tourism-induced urban growth Ana Beatriz Pierri Daunt ¹ , Thiago Sanna Freire Silva ¹ , Matthias Bürgi ² , Anna M. Hersperger ² ¹ São Paulo State University, Geography Department, ² Swiss Federal Research Institute WSL
12.15-12.30	T0386 Socio-economic development, knowledge transmission and territorial governance of Social-Ecological Systems at the regional level: the case of the Green Infrastructure Strategy in Galicia (NW Spain) Emilio R. Díaz-Varela ¹ , María Amparo Ferreira-Golpe ¹ , Ana Isabel García Arias ¹ , María do Mar Perez-Fra ¹ , Edelmiro Lopez-Iglesias ¹ , Beatriz Rodriguez-Morales ¹ ¹ ECOAGRASOC - University of Santiago de Compostela

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10.30-12.30	<p>Symposium 11 - From urban agriculture to edible cities – challenges and chances for approaching sustainable urban socio-ecological systems</p> <p>Room: U6 - 08</p> <p>Session Organisers: Martina Artmann¹, Jan Vávra², Rommel Marius³</p> <p>¹Leibniz Institute of Ecological Urban and Regional Development (IOER), ²University of South Bohemia (USB), ³ZOE, the Institute for inclusive and sustainable economies</p>
10.30-10.45	Introduction to Symposium 11
10.45-10.50	<p>T0018 Edible cities – a leverage for urban food supply and human-food connection?</p> <p>Martina Artmann¹, Katharina Sartison¹ ¹Leibniz Institute of Ecological Urban and Regional Development</p>
10.50-10.55	<p>T0320 Urban gardens as a source of self-grown food in Czech towns and cities</p> <p>Jan Vávra¹, Petr Daněk², Petr Jehlička³, Miloslav Lapka¹ ¹Department of Regional Management, Faculty of Economics, University of South Bohemia in České Budějovice, ²Department of Geography, Faculty of Science, Masaryk University, ³Department of Geography, Faculty of Arts and Social Sciences, The Open University</p>
10.55-11.00	<p>T0181 Home gardens in Czechia: Quiet sustainability or quiet repose</p> <p>Jana Šiftová¹ ¹Charles University</p>
11.00-11.15	<p>T0432 An evaluation of cultural ecosystem services delivered by urban micro-farms: the research project SEMOIR</p> <p>Giulia Giacche¹, Anne-Cécile Daniel¹, Jean-Noel Consalès², Baptiste Jean-Paul Grard³, Antoine Lagneau⁴, Claire Chenu¹ ¹Exp'Au/AgroParisTech, ²Laboratoire TELEMME, Aix Marseille Université, ³Laboratoire de Sciences du sol, UMR ECOSYS, INRA-AgroParisTech, ⁴Agence régionale de la biodiversité, IAU IdF</p>
11.15-11.30	<p>T0611 Urban micro-farms: an assessment of ecosystem services provided by in situ soils and constructed Technosols</p> <p>Baptiste Grard¹, Sophie Joimel¹, Geoffroy Séré², Laure Vieublé¹, Sabine Houot¹, Claire Chenu¹ ¹UMR ECOSYS (AgroParisTech - INRA), ²Laboratoire Sols et Environnement, UMR 1120, INRA</p>
11.30-11.45	<p>T0989 New approaches and products in urban food production: A study on perception of sustainability and social acceptability</p> <p>Kathrin Specht¹, Marcel Robischon², Felix Zoll³, Julia Bela⁴, Henrike Schumann², Julia Kachel² ¹ILR-Research Institute for Regional and Urban Development, ²Humboldt-Universität zu Berlin, ³Leibniz Centre for Agricultural Landscape Research (ZALF), ⁴Technische Universität Berlin (TU Berlin)</p>
11.45-12.00	<p>T0436 Analyzing landscape services supply-demand and preference factors of urban agriculture parks in Beijing, China</p> <p>Miaomiao Xie¹, Manyu Li¹, Meng Xu¹ ¹School of Land Science and Technology, China University of Geosciences (Beijing)</p>
12.00-12.15	<p>T0830 Potential of abandoned agricultural land for food provision in urban settings</p> <p>Simona R. Gradinaru¹, Cristian Ioja¹, Mihai Nița¹, Denisa Badiu¹ ¹University of Bucharest</p>
12.15-12.30	<p>T0518 Business models in urban agriculture: case studies in Chengdu and Milan</p> <p>Hang Lu¹, Yichen Jiang² ¹Politecnico di Milano, ²RWTH Aachen University</p>

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10.30-12.30	<p>Symposium 22 - Land-use legacies and forest change: understanding the past to forecast the future</p> <p>Symposium 48 - The role of landscape experiments to inform large-scale habitat restoration</p> <p>Room: U6 - 09</p> <p>Session Organisers (22): Matteo Garbarino¹, Peter Weisberg²</p> <p>¹University of Torino, Dept. DISAFA, ²University of Nevada, Reno</p>
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	Session Organisers (48): Kevin Watts ^{1,2} , Kirsty Park ² , Elisa Fuentes-Montemayor ² <i>¹Forest Research, ²University of Stirling</i>
10.30-10.45	Introduction to Symposium 22 & 48
10.45-11.00	T0054 Land use history legacies on forest landscape dynamics in the Alps and the Apennines Matteo Garbarino ¹ , Francesco Malandra ² , Renzo Motta ¹ , Carlo Urbinati ² , Alessandro Vitali ² , Peter Weisberg ³ <i>¹Università di Torino (DISAFA), ²Marche Polytechnic University, ³University of Nevada, Reno</i>
11.00-11.15	T0163 Disentangling climate change and land use legacy effects on European forest disturbance dynamics Cornelius Senf ¹ , Rupert Seidl ¹ <i>¹University of Natural Resources and Life Sciences (BOKU) Vienna</i>
11.15-11.30	T0171 Historical legacies on the forest landscapes of central Italy Scott Mensing ¹ , Edward Schoolman ¹ , Gianluca Piovesan ² <i>¹University of Nevada, Reno, ²DAFNE</i>
11.30-11.35	T0159 Forest use legacies in protected nature reserve (Kaluga region, Central Russia) Victor Matasov ¹ , Nikolay Surkov ¹ , Oleg Zheleznyy ¹ , Viacheslav Nizovtsev ¹ <i>¹Lomonosov Moscow State University</i>
11.35-11.40	T0995 Land-use legacies: the evolution of British forestry in response to changing resource needs Susanne Raum ¹ <i>¹Imperial College London, Centre for Environmental Policy</i>
11.40-11.45	T0997 Endangered socio-ecological habitats. The case study of chestnut orchards in the Bolognese Apennine Giovanna Pezzi ¹ , Giorgio Maresi ² , Fabrizio Ferretti ³ , Patrik Krebs ⁴ , Marco Conedera ⁴ <i>¹Università di Bologna, Department of Biological, Geological and Environmental Sciences, ²Fondazione Edmund Mach, Centre for Technology Transfer, ³CREA - Council for Agricultural Research and Economics Research Centre for Forestry and Wood, ⁴WSL</i>
11.45-12.00	T0299 Land-use history lessons for managing arid woodlands of the western US: the forgotten role of the carbonari migrant workers? Peter Weisberg ¹ , Douglas Page, Jr. ² , Dongwook Ko ³ , Ronald Reno ⁴ , Sarah Page ⁵ , Thomas Straka ⁶ <i>¹Department of Natural Resources and Environmental Science, University of Nevada, Reno, ²retired forester - USFS, BLM, ³Kookmin University, ⁴Desert Research Institute, ⁵Bureau of Land Management, ⁶Forestry and Environmental Conservation Department, Clemson University</i>
12.00-12.15	T0985 Identifying anthropogenic burning via paleoecology and paleolandscape modeling Anna Klimasewski-Patterson ¹ , Peter Weisberg ² , Scott Mensing ² , Robert Scheller ³ <i>¹California State University, Sacramento, ²University of Nevada, Reno, ³North Carolina State University</i>
12.15-12.30	T0291 The legacy effect of invasive pinewood nematode as a threat to ecocultural identity in Korea Dongwook Ko ¹ , Chan Ryul Park ² <i>¹Kookmin University, ²National Institute of Forest Science</i>

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10.30-12.30	Symposium 55 - Assessing the patterns and drivers of land-use intensity change Room: U6 - 12 Session Organisers: Robert Pazur ¹ , Matthias Bürgi ¹ , Alexander Prishchepov ² <i>¹Swiss Federal Research Institute WSL, ²University of Copenhagen</i>
10.30-10.45	Introduction to Symposium 55
10.45-11.00	T_0973 Which factors promote regime shifts at forest-savanna boundaries in Central Africa? Lindsey Norgrove
11.00-11.15	T0124 Land use decision making as a driver of land use intensity Peter Verburg ^{1,2} , Ziga Malek ¹ <i>¹VU University Amsterdam, ²WSL Switzerland</i>
11.15-11.30	T0267 Land use change scenarios in marginal mosaic-type landscapes and their impact on ecosystem services. Ivo Vinogradovs ¹ , Oļģerts Nikodemus ¹ , Zaiga Krišjāne ¹ <i>¹University of Latvia, Department of Geography</i>
11.30-11.45	T0353 The effect of external drivers on tipping-points in agricultural land-use intensity

	Maarten J. van Strien ¹ , Sibyl H. Huber ² , Adrienne Grêt-Regamey ³ ¹ <i>Planning of Landscape and Urban Systems, Dept. of Civil, Environmental and Geomatic Engineering, ETH Zurich, Zurich, Switzerland,</i> ² <i>Flury & Giuliani agricultural and regional economic consulting, Zurich, Switzerland</i>
11.45-12.00	T0448 Land cover patterns of wind generation infrastructure in Brazil Olga Turkovska ¹ , Johannes Schmidt ¹ , Katharina Gruber ¹ , Felix Nitsch ² ¹ <i>Institute for Sustainable Economic Development, University of Natural Resources and Life Sciences,</i> ² <i>Institute of Engineering Thermodynamics, German Aerospace Center</i>
12.00-12.15	T0516 Modeling agricultural land-use intensity: understanding driving forces by validating future scenarios Sven-Erik Rabe ¹ , Enrico Celio ¹ ¹ <i>ETH Zürich</i>
12.15-12.30	T0617 Evaluating land use changes and land use planning within and around national parks – case studies from Poland Michał Jakiel ¹ ¹ <i>Institute of Geography and Spatial Management, Jagiellonian University</i>

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10.30-12.30	Symposium 14 - Linking natural and anthropogenic forces: landscape pattern and processes in global urbanized deltas and lowlands Room: U6 - 18 Session Organisers: Zhifeng Wu ¹ , Paolo Tarolli ² , Xiuzhen Li ³ ¹ <i>Guangzhou University,</i> ² <i>Padova University,</i> ³ <i>East China Normal University</i>
10.30-10.45	Introduction to Symposium 14
10.45-11.00	T0068 Ecological restoration and resources utilization of Yangtze Estuarine Wetlands - Project Introduction Xiuzhen Li ¹ ¹ <i>State Key Laboratory of Estuarine and Coastal Research, Institute of Eco-Chongming, East China normal University</i>
11.00-11.15	T0190 Identification on effects of land use on antibiotics in soils in typical peri-urban area of Yangtze River Delta, China Lei Yang ¹ , Fangkai Zhao ¹ , Liding Chen ¹ ¹ <i>State Key Laboratory of Urban and Regional Ecology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences</i>
11.15-11.30	T0381 Correlation between urbanization and vegetation activities in the Pearl River Delta: Scale contrast Man Wang ¹ , Jian Peng ¹ , Yi'na Hu ¹ ¹ <i>Laboratory for Earth Surface Processes, Ministry of Education, College of Urban and Environmental Sciences, Peking University</i>
11.30-11.45	T0480 Artificial water management in Italian lowlands – impacts and challenges by natural and anthropogenic forces Anton Pijl ¹ , Claudia C. Brauer ² , Giulia Sofia ³ , Adriaan J. Teuling ² , Paolo Tarolli ¹ ¹ <i>Dept. of Land, Environment, Agriculture and Forestry, University of Padova, Legnaro (PD), Italy,</i> ² <i>Hydrology and Quantitative Water Management Group, Wageningen University and Research, Wageningen, the Netherlands,</i> ³ <i>University of Connecticut, University of Connecticut, Civil & Environmental Engineering, Storrs (CT), United States</i>
11.45-12.00	T0490 When the hydrology drives the ecological subsidy: impact of climate change on floodplain contribution to fish productivity Luc Farly ¹ , Christiane Hudon ² , Antonia Cattaneo ³ , Gilbert Cabana ¹ ¹ <i>Département des Sciences de l'Environnement, Université du Québec à Trois-Rivières,</i> ² <i>Environment and Climate Change Canada, St. Lawrence Centre,</i> ³ <i>Département des Sciences Biologiques, Université de Montréal</i>
12.00-12.15	T0536 Eco-hydro-morphological degradation of Israel lowland streams: The result of flood protection regulation Roey Egozi ¹ ¹ <i>Israel Ministry of Agriculture and Rural Development / Soil Erosion Research Station</i>
12.15-12.30	T0559 Landscape management in the Polesine lowland (northern Italy): consequences on flooding and population exposure

	Daniele Pietro Viero ¹ , Giulia Roder ² , Bruno Matticchio ³ , Andrea Defina ¹ , Paolo Tarolli ^{2,1} <i>University of Padova - Dep. of Civil, Environmental and Architectural Engineering (ICEA), ²University of Padova - Dep. of Land, Environment, Agriculture and Forestry (TESAF), ³IPROS Environmental Engineering</i>
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10.30-12.45	<p>Symposium 17 - Metropolitan Landscapes. Resilient articulation of the interface between city, agriculture and nature promoting the quality of dwelling and ensure the human well-being within the metropolis</p> <p>Room: U6 – 1A</p> <p>Session Organisers: Antonella Contin¹, Domingo Sanchez Fuentes², Ramon Reyes³ ¹Politecnico di Milano, ²Escuela Tecnica Superior de Arquitectura de Sevilla, ³Universidad de Guadalajara, Centro universitario de arte, arquitectura y diseño, "udeg"</p>
10.30-10.45	Introduction to Symposium 17
10.45-11.00	<p>T0278 Landscape structure: a fundamental criterion to be considered when planning metropolitan areas</p> <p>Athanasios-Alexandru Gavriliadis¹, Andreea Nita¹, Laurentiu Rozylowicz^{1,1}<i>Center for Environmental Research and Impact Study, Faculty of Geography, University of Bucharest</i></p>
11.00-11.15	<p>T0398 Critical cartographies and datascares for emerging metropolitan areas: testing 'Tell_me' research methodology for social cohesion and equity.</p> <p>Carlos Tapia Martín¹, Blanca del Espino Hidalgo², Emilio Mascort Albea^{3,1}<i>Higher Technical School of Architecture (Professor) Department of History, Theory and Composition in Architecture, ²Andalusian Historical Heritage Institute (IAPH). Department of Built Heritage, Works and Infrastructures, ³Higher Technical School of Architecture (Professor) Department of Building Structures and Ground Engineering</i></p>
11.15-11.30	<p>T0507 GIS Software modeling for localization strategies in planning activities</p> <p>Alessandra Pandolfi¹, Giovanna Sona¹, Marta Conconi^{1,1}<i>Politecnico di Milano</i></p>
11.30-11.45	<p>T0793a Tropical Botanical Urban Landscapes Schools: lessons from Roberto Burle Marx's Botanical Garden in Maracaibo, Venezuela.</p> <p>Maria Villalobos¹, Carla Urbina^{1,1}<i>Botanical City</i></p>
11.45-12.00	<p>T0832 Mixed Urban-Rural Landscape: Focusing on the Housing-Farmland Interfaces in Tokyo Suburbs</p> <p>Takahiro Yamazaki¹, David Mason¹, Shota Endo¹, Kai Kurimoto¹, Akiko Iida¹, Makoto Yokohari^{1,1}<i>The university of Tokyo</i></p>
12.00-12.15	<p>T0856 Urban Betterment and Ecological Restoration: Urban Periphery Area Green Space Transformation- Case Study of the Heizhuanghu Area</p> <p>Tingting Huang¹, Jianning Zhu¹, Ying Zhang¹, Ruodong Han^{1,1}<i>Beijing Forestry University</i></p>
12.15-12.30	<p>T0886 On continuity: the landscape unit and eco-centrality</p> <p>Sandy Jiyeon Kim^{1,1}<i>Politecnico di Milano</i></p>
12.30-12.45	<p>T0950 Dynamic characterize of resilience in metropolitan city</p> <p>Jing Fu¹, Jun Gao^{1,1}<i>Shanghai Normal University</i></p>

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10.30-11.50	<p>Symposium 53 - Policy and governance innovation in agricultural landscapes: recent trends and future pathways towards enhanced sustainability and food security.</p> <p>Room: U6 – 1B</p> <p>Session Organisers: José Muñoz-Rojas¹, Teresa Pinto-Correia¹, Rafael Mata-Olmo², Isabel Loupa-Ramos³, Lone Kristensen⁴</p> <p>¹ICAAM-Universidade de Évora, ²Departamento de Geografía-Universidad Autónoma de Madrid, ³Urbanismo e Ambiente-IST-Universidade de Lisboa, ⁴Landscape Architecture and Planning- University of Copenhagen</p>
10.30-10.35	Introduction to Symposium 53
10.35-10.40	<p>T0568 Are certification schemes promoting more sustainable farm management practices? A case study in the Montado of the Alentejo region, Portugal</p> <p>Carla Azeda¹, Nuno Guiomar¹, Sérgio Godinho¹, Teresa Pinto-Correia² ¹ICAAM - Instituto de Ciências Agrárias e Ambientais Mediterrânicas, Instituto de Investigação e Formação Avançada, Universidade de Évora, Pólo da Mitra, ²ICAAM - Instituto de Ciências Agrárias e Ambientais Mediterrânicas, e Departamento de Paisagem, Ambiente e Ordenamento, Escola de Ciências e Tecnologia, Universidade de Évora, Pólo da Mitra</p>
10.40-10.45	<p>T0548 Sustainable governance of historic agrarian landscapes: winter meadows of Ticino river</p> <p>Paola Branduini¹, Michele Bove², Francesca Trotti² ¹Politecnico di Milano, ²Parco Lombardo Valle del Ticino</p>
10.45-10.50	<p>T0678 Vegetation cover and land opportunity cost drive landowner's willingness to set aside land for conservation</p> <p>Francisco d'Albertas¹, Adrian Gonzalez-Chavez¹, Vitor Paciello¹, Clarice Borges Matos¹, Jean Paul Metzger¹ ¹University of São Paulo</p>
10.50-10.55	<p>T0476 Innovation approaches to governance of peri-urban areas: The case study of Agricultural Park Prato, Italy</p> <p>David Fanfani¹, Barbora Duží² ¹University of Florence, Department of Architecture, ²Institute of Geonics of the Czech Academy of Sciences</p>
10.55-11.00	<p>T0242 Perceived contributions of multifunctional landscapes to human wellbeing: Evidence from 13 European sites</p> <p>Nora Fagerholm¹, Berta Martín-López², Mario Torralba³, Elisa Oteros Rozas⁴, Claudia Bieling⁵, Tobias Plieninger⁶ ¹University of Turku, Department of Geography and Geology, ²Leuphana University of Lüneburg, Faculty of Sustainability, Institute for Ethics and Transdisciplinary Sustainability Research, ³University of Kassel, Faculty of Organic Agricultural Sciences, ⁴Pablo de Olavide University, Social and Participatory Action Research Group, ⁵University of Hohenheim, Institute of Social Sciences in Agriculture, Societal Transition and Agriculture, ⁶Georg-August-Universität, Department of Agricultural Economics and Rural Development</p>
11.00-11.05	<p>T0560 The role of rural landscape in peri-urban areas: the Living Lab. of Chieri Municipality (Turin Metropolitan Area, Italy)</p> <p>Federica Larcher¹, Simonetta Alberico¹, Paola Gullino¹, Egidio Dansero², Giacomo Pettenati², Andrea Ballocca³ ¹Dept. of Agriculture, Forest and Food Sciences, University of Turin, ²Department of Cultures, Politics and Society, University of Turin, ³Piedmont Information System Consortium</p>
11.05-11.10	<p>T0471 Improving the relevance of innovative agricultural innovations with key actors: case studies of technologies and practices from across Europe</p> <p>Maria Kernecker¹, Andrea Knierim², Teresa Kraus¹, Friederike Borges¹, Angelika Wurbs¹ ¹Leibniz Center for Agricultural Landscape Research, ²University of Hohenheim</p>
11.10-11.15	<p>T_0972 Agri-environmental collaboratives – experiences from Rural Denmark</p> <p>Lone Sørderkvist Kristensen¹, Jørgen Primdahl¹ ¹Department of Geosciences and Natural Resource Management, University of Copenhagen</p>
11.15-11.30	<p>T0894 Landscape governance: exploring the meeting-point of agriculture and spatial planning policies</p> <p>Isabel Loupa-Ramos¹, Nuno David¹, Jorge Silva¹ ¹IST/University of Lisbon</p>

11.30-11.35	T0199 Fragmented governance in the rural landscapes of Alentejo (Portugal) José Muñoz-Rojas ¹ <i>Universidade de Évora (ICAAM)</i>
11.35-11.40	T0599 Result-based payments as a novel pathway for more adaptive farm management - application to the silvo-pastoral system Montado Teresa Pinto-Correia ¹ , Maria Helena Guimarães ¹ , Isabel Ferraz de Oliveira ¹ , Maria de Belém Freitas ¹ <i>¹ICAAM/University of Évora</i>
11.40-11.45	T0786 An evidence synthesis on farmland in urban green infrastructure for informed policymaking – the missing link? Werner Rolf ^{1,2} , Katharina Diehl ² , Hubert Wiggering ² <i>¹Chair for Strategic Landscape Planning and Management, Technical University of Munich, Germany, ²Institute of Environmental Science and Geography, Land Science, University of Potsdam, Germany</i>
11.45-11.50	T_8844 Innovation in land use policy for food sufficiency: insights from seven Mediterranean local case-studies Esther Sanz Sanz ¹ <i>INRA UR-Ecodéveloppement</i>

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10.30-12.30	<p style="text-align: center;">Symposium 02 - From conservation priority area to ecological security pattern</p> <p style="text-align: center;">Room: U6 – 1C</p> <p style="text-align: center;">Session Organisers: Jian Peng¹, Jeroen Meersmans²</p> <p style="text-align: center;"><i>¹Peking University - College of Urban and Environmental Sciences, ²Cranfield University - School of Water, Energy and Environment</i></p>
10.30-10.40	Introduction to Symposium 02
10.40-11.00	T0410 Urban landscape safe pattern: a case study in Beijing-Tianjin-Hebei region Liding Chen ¹ , Yongcai Jing ¹ , Ranhao Sun ¹ <i>¹Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences</i>
11.00-11.15	T0413 3-D ecological security pattern construction in Shenzhen based on a birds view Zhenhuan Liu ¹ <i>¹School of Geography and Planning, Sun Yat-sen University</i>
11.15-11.30	T0213 The ecosystem-service performance analysis for sustainably protecting the historical cultural areas: the Three-hills and Five-gardens in Beijing, China Qing Chang ¹ , Wang xin Su ¹ , Xiao-Lei Feng ¹ , Li rongWang ¹ , Hong Wang ¹ <i>¹Department of ornamental horticulture and landscape architecture, China Agricultural University</i>
11.30-11.45	T0105 The debate of urban total ecological benefit control based on landscape ecology Xiyue Cheng ¹ , Tao Zao ¹ , Dongxu Zhang ¹ <i>¹Beijing Tsinghua Tongheng Planning & Design Institute</i>
11.45-12.00	T0643 Regional vulnerability assessment of terrestrial biotopes regarding landscape change WeiShuhn Peter ¹ <i>¹Leibniz Centre for Agricultural Landscape Research (ZALF)</i>
12.00-12.15	T0704 The observation and valuation of karst ecosystems from local to global scales Yuemin Yue ¹ , Martin Brandt ² , Xiaowei Tong ¹ , Kelin Wang ¹ <i>¹Institute of Subtropical Agriculture, Chinese Academy of Sciences, ²Department of Geosciences and Natural Resource Management, University of Copenhagen, Copenhagen, Denmark</i>
12.15-12.30	T0744 The potential distribution and conservation of endemic plant species in dry hot valley of Jinshajiang river region under climate change Guanghui Dai ³ , Maoyao Yan ³ , Zhiming Zhang ³ <i>³Institute of Ecology and Geobotany, School of Ecology and Environment Science, Yunnan University</i>

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10.30-11.35	<p style="text-align: center;">Symposium 08 - Towards a 'traits' framework that is both ecologically and socio-culturally relevant: Functional traits beyond life history characteristics. Join a discussion on theory and application.</p> <p style="text-align: center;">Room: U6 – 1D</p> <p style="text-align: center;">Session Organisers: Erik Andersson¹, Dagmar Haase², Timon McPhearson³, Johannes Langemeyer⁴</p>
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	¹ Stockholm Resilience Centre, Stockholm University, ² Humboldt Universität zu Berlin and Helmholtz Centre for Environmental Research – UFZ, ³ Urban Systems Lab, The New School, ⁴ Institute of Environmental Science and Technology, Universitat Autònoma de Barcelona
10.30-10.45	Introduction to Symposium 08
10.45-11.00	T0318 Functional traits as a boundary object Erik Andersson ¹ , Dagmar Haase ² , Timon McPhearson ³ ¹ Stockholm Resilience Centre, Stockholm University, ² Institute of Geography, Humboldt Universität zu Berlin, ³ Urban Systems Lab, The New School
11.00-11.05	T0139 Relational traits: linking human values to social-ecological attributes of landscape in Melbourne, Australia Dave Kendal ¹ ¹ University of Tasmania
11.05-11.10	T0387 Functional assemblages of plants and birds: responses to past and present landscape structures Lucie Lecoq ¹ , Aude Ernoult ¹ , Cendrine Mony ¹ ¹ CNRS UMR 6553 ECOBIO, University of Rennes 1
11.10-11.15	T0467 Multi-user perspective applied on the maintaining of ecosystem service quality of man-dominated rural landscape, when provision is scattered between contrasting habitat types Jaan Liira ¹ , Taavi Paal ¹ , Kertu Lõhmus ² , Laura Kütt ¹ ¹ University of Tartu, ² University of Oldenburg
11.15-11.20	T0579 Plant patterning and social selection for traits in the urban environment: Comparative reflections from Cape Town and Stockholm Julie Goodness ¹ , Pippin M. L. Anderson ² ¹ Stockholm Resilience Centre - Stockholm University, ² Department of Environmental & Geographical Science - University of Cape Town
11.20-11.25	T0634 Cultural ecosystem services assessment with Earth observation based spectral traits Thilo Wellmann ¹ , Erik Andersson ² , Angela Lausch ³ , Dagmar Haase ¹ ¹ Humboldt-Universität zu Berlin, ² Stockholm Resilience Centre, ³ Helmholtz Centre for Environmental Research - UFZ
11.25-11.30	T_9014 “Understanding of abiotic/ biotic and human induced traits and their interactions” Angela Lausch ¹ ¹ Helmholtz Centre for Environmental Research - UFZ
11.30-11.35	T_8819 Plant traits and natural vegetation in river restoration projects Daria Sikorska ¹ , Kinga Krauze ¹ , Dorota Michalska-Hejduk ² , Renata Włodarczyk-Marciniak ¹ ¹ European Regional Centre for Ecohydrology of the Polish Academy of Sciences, ² Department of Geobotany and Plant Ecology, University of Łódź,
11.35-12.30	General discussion

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10.30-12.15	Symposium 71 - Synergistic Effects of Climate and Management on Biodiversity Room: U6 – 1E Session Organisers: Robert Scheller ¹ , Matthew Betts ² , Melissa Lucash ³ ¹ North Carolina State University, ² Oregon State University, ³ Portland State University
10.30-10.45	Introduction to Symposium 71
10.45-11.00	T0391 Synergistic effects of climate and land-cover change on long-term bird population trend of the western USA: a test of modeled predictions Matthew Betts ¹ , Javier Gutiérrez Illán ² ¹ Oregon State University, ² Washington State University
11.00-11.15	T0723 Using robust decision-making and virtual reality to evaluate management tradeoffs under climate change Melissa Lucash ¹ , Jiawei Huang ² , Klaus Keller ² , Alex Klippel ² , Robert Nicholas ² , Erica Smithwick ² ¹ Portland State University, ² The Penn State University
11.15-11.30	T0173 Managing forest landscapes as functional complex networks to increase resilience: a simulation study Marco Mina ¹ , Núria Aquilué ¹ , Matthew Duvenek ² , Marie-Josée Fortin ³ , Christian Messier ¹⁻⁴ ¹ Université du Québec à Montréal, ² Harvard Forest, Harvard University, ³ University of Toronto, ⁴ Université du Québec en Outaouais

11.30-11.45	T_9006 Applying climate-adaptive forest management principles to a mixed-conifer landscape in Colorado, USA Linda Nagel ¹ , Chris Looney ² , Mike Battaglia ² , Courtney Peterson ¹ , Chris Woodall ² , Wilfred Previant ¹ ¹ Colorado State University, ² USDA Forest Service, Rocky Mountain Research Station
11.45-12.00	T0039 Landscape trajectories of ecosystem services under climate change and climate adapted management Robert Scheller ¹ , Charles Maxwell ^{1,1} North Carolina State University
12.00-12.15	T0407 Extinction filters mediate the global effects of fragmentation Matthew Betts ¹ , Chris Wolf ^{1,1} Oregon State University

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10.30-12.30	Symposium 70 - Seascape Ecology Room: U6 – 1F Session Organisers: Alessandra Savini ¹ , Simone Farina ² , Luca Fallati ¹ , Daniele Grech ² ¹ Dept. of Earth and Environmental Sciences, University of Milano-Bicocca, ² IMC International Marine Centre
10.30-10.45	Introduction to Symposium 70
10.45-11.00	T_0988 Mediterranean shelf shaped by algal reef (coralligenous) Valentina Alice Bracchi ¹ , Daniela Basso ¹ , Fabio Marchese ¹ , Alessandra Savini ^{1,1} University of Milano-Bicocca, Dept. of Earth and Environmental Sciences
11.00-11.15	T0882 Seascape-scale factors modulate sea urchin predation in macrophyte ecosystems Simone Farina ^{1,1} IMC Foundation- Centro Marino Internazionale
11.15-11.30	T0880 Using photogrammetry to quantify the movement rate and pattern of Culcita sp. (Echinodermata: Asteroidea). Luca Saponari ¹ , Luca Fallati ¹ , Simone Montano ¹ , Enrico Montalbetti ¹ , Paolo Galli ¹ , Davide Seveso ¹ ¹ Univeristy of Milano-Bicocca
11.30-11.45	T0573 Risk caused by plastic pollution on marine ecosystems: a seascape-driven approach Federica Guerrini ¹ , Lorenzo Mari ¹ , Renato Casagrandi ^{1,1} Dipartimento di Elettronica, Informazione e Bioingegneria - Politecnico di Milano
11.45-12.00	T0428 Habitat alteration increases consumer pressure across diverse marine ecosystems Juhung Lee ¹ , Jamie McDevitt-Irwin ¹ , Fiorenza Micheli ¹ , Brian Silliman ² , Rodolfo Dirzo ^{3,1} Hopkins Marine Station of Stanford University, ² Nicholas School of the Environment, Duke University, ³ Department of Biology, Stanford University
12.00-12.15	T0687 Convergence research on landscape and seascape resilience in the Anthropocene Jamie Peeler ¹ , Erica Smithwick ^{1,1} The Pennsylvania State University
12.15-12.30	T0382 Integrated multi-level strategy to incorporate biodiversity conservation in marine spatial planning of the Northern Adriatic Sea Elena Gissi ¹ , Elisabetta Manea ^{1,1} Università Iuav di Venezia

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14.00-15.30	Symposium 19 - Promoting Ecosystem Services for Sustainable Development Goals Room: Aula Magna Session Organisers: Wenwu Zhao ¹ , Yihe Lu ² , Manish Kumar Goyal ⁵ , Francesco Cherubini ³ , Walter Musakwa ⁴ , Richard Ross Shaker ⁶ , Stefani Daryanto ⁷ ¹ Faculty of Geographical Science, Beijing Normal University, ² Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, ³ Norwegian University of Science and Technology, ⁴ University of Johannesburg, ⁵ Indian Institute of Technology Indore, ⁶ Ryerson University, ⁷ Indiana University – Purdue University Indianapolis
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14.00-14.15	T0341 The introduction of an ecosystem services concept to Central Asia: practical experiences to-date Burghard C. Meyer ¹ , Lian Lundy ² , Matraimov Kuban ³ , K. Zhakenova ³ ¹ <i>Leipzig University, Institute of Geography</i> , ² <i>Middlesex University, London</i> , ³ <i>CAREC, Regional Environmental Centre for Central Asia, Bishkek</i>
14.15-14.30	T0414 Half century change of interactions among ecosystem services driven by ecological restoration: Quantification and policy implications at a watershed scale in the Chinese Loess Plateau Ying Luo ¹ , Yihe Lü ¹ ¹ <i>State Key Laboratory of Urban and Region Ecology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences</i>
14.30-14.45	T0423 Are there enough soil available water for vegetation sustainability in Loess Plateau of China? Xiao Zhang ¹ , Wenwu Zhao ² , Lixin Wang ² , Yuanxin Liu ³ ¹ <i>Beijing Normal University</i> , ² <i>Indiana University - Purdue University Indianapolis</i> , ³ <i>Chinese Academy of Sciences</i>
14.45-15.00	T0470 Mapping critical natural capital for identification and conservation of ecological functional areas: Insights from the Tibetan Plateau Yuanxin Liu ¹ , Yihe Lü ¹ ¹ <i>State Key Laboratory of Urban and Regional Ecology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences</i>
15.00-15.15	T0493 Mapping and Assessment of Ecosystem Services in Cyprus Vassilis Litskas ¹ , Ioannis Vogiatzakis ¹ , Savvas Zotos ¹ , Menelaos Stavrinos ¹ , Paraskevi Manolaki ¹ , Dimitrios Sarris ¹ ¹ <i>Open University of Cyprus</i>
15.15-15.20	T0033 Linking catchment characteristics with stream water isotopes over multiple spatial scales in a humid area Long Sun ¹ , Lei Yang ¹ , Liding Chen ¹ , Fangkai Zhao ¹ , Shoujuan Li ¹ ¹ <i>State Key Laboratory of Urban and Regional Ecology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences</i>
15.20-15.25	T0215 Supply and demand assessment of urban park cultural services: A case study in Shenzhen Qiandu Huang ¹ ¹ <i>School of Geography and Planning, Sun-Yat Sen University</i>
15.25-15.30	T0227 The spatial relationship between landscape recreation service demand and urbanization Zhenhua Bing ¹ ¹ <i>Shanghai Business School</i>

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14.00-15.30	<p>Symposium 30 - Mapping and monitoring farmland biodiversity and ecosystem services</p> <p>Room: U6 - 02</p> <p>Session Organisers: Felix Herzog¹, Yunhui Liu², Majid Iravani³, Tian Xiang Yue⁴</p> <p>¹<i>Agroscope</i>, ²<i>China Agricultural University</i>, ³<i>University of Alberta / Alberta Biodiversity Monitoring Institute</i>, ⁴<i>Chinese Academy of Sciences</i></p>
14.00-14.15	<p>T0461 Temporal dynamics of soil bacterial communities at a landscape scale: dependence to soil properties and agricultural practices</p> <p>Laurie Dunn¹, Samuel Dequiedt¹, Mélanie Lelievre², Christophe Lang³, Nicolas Merilleau⁴, Nicolas Chemidlin Prevost-Boure¹¹<i>Agroécologie, AgroSup Dijon, Institut National de la Recherche Agronomique (INRA)</i>, <i>Université Bourgogne Franche-Comté, F-21000 Dijon, France</i>, ²<i>Agroécologie-Plateforme GenoSol, BP 86510, F-21000 Dijon, France</i>, ³<i>Femto-ST Institute, Univ. Bourgogne Franche-Comté/CNRS Besançon – France</i>, ⁴<i>IRD, Sorbonne Université, UMMISCO, F-93143, Bondy, France</i></p>
14.15-14.30	<p>T0354 The influence of landscape alterations on changes in ground beetle (Carabidae) and spider (Araneae) functional groups between 1995 and 2013 in an urban fringe of China</p> <p>Meichun Duan¹, Wenhao Hu², Yunhui Liu², Zhenrong Yu², Jacques Baudry³¹<i>College of Agronomy and Biotechnology, Southwest University</i>, ²<i>College of Resources and Environmental Sciences, China Agricultural University</i>, ³<i>SAD Paysage, National Institute of Agronomic Research (INRA)</i></p>
14.30-14.45	<p>T0430 Spatio-temporal analysis of the number of hunted animals for the assessment of the landscape quality and the provision of ecosystem services</p>

	Birgith Unterthurner ¹ , Ulrike Tappeiner ² , Johannes Rüdiger ² , Lothar Gerstgrasser ³ , Andreas Agreiter ⁴ , Erich Tasser ¹ ¹ Eurac Research, Institute for Alpine Environment, ² University of Innsbruck, Department of Ecology, ³ Südtiroler Jagdverband, ⁴ Amt für Jagd und Fischerei, Südtiroler Landesverwaltung
14.45-15.00	T0350 Using Sentinel satellite data to supplement monitoring of farmland landscapes Wendy Fjellstad ¹ , Arnt Kristian Gjertsen ¹ , Hanne Gro Wallin ¹ ¹ NIBIO - Norwegian Institute of Bioeconomy Research
15.00-15.15	T0263 Classical land use maps or food resource maps – which one predicts predator abundance in crops better? Lolita Ammann ¹ , Aliette Bøsem-Baillo ¹ , Martin H. Entling ² , Felix Herzog ¹ , Matthias Albrecht ¹ ¹ Agroscope, ² Universität Koblenz-Landau
15.15-15.30	T0099 Applying unmanned aerial vehicles (UAVs) to evaluate the impact of pastoral land uses on avian biodiversity in the Tibetan agricultural landscape Li Li ¹ , Andreas Fritz ² , Ilse Storch ³ , Barbara Koch ² ¹ Center for Nature and Society, Peking University, ² Chair of Remote Sensing and Land Information Systems (FeLis), Albert-Ludwigs University Freiburg, ³ Chair of Wildlife Ecology and Management, Albert-Ludwigs University Freiburg

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14.00-14.30	<p style="text-align: center;">Symposium 10 - Using landscape simulation models to help balance conflicting goals in a changing forest: from timber production to carbon sequestration and biodiversity conservation</p> <p style="text-align: center;">Room: U6 - 03</p> <p style="text-align: center;">Session Organisers: Anouschka Hof¹, Miguel Montoro Girona², Caren Dymond³</p> <p style="text-align: center;">¹Wageningen University, ²Swedish University of Agricultural Sciences, ³Ministry of Forests, Lands and Natural Resource Operations, Government of British Columbia</p>
14.00-14.15	T0118 Moose browsing and insect outbreaks as drivers in forest landscapes Miguel Girona ¹ , Anouschka Hof ² , Hubert Morin ³ , Nathan De Jager ⁴ , Lionel Navarro ³ , Joakim Hjältén ¹ ¹ Department of Wildlife, Fish, and Environmental Studies, Swedish University of Agricultural Sciences (SLU), Umeå, SE-90183 Sweden, ² Wageningen University, ³ University of Quebec in Chicoutimi, ⁴ Upper Midwest Environmental Sciences Center
14.15-14.30	T0081 Simulating impacts of restoration efforts on the suitability of forest landscapes for a locally critically endangered umbrella species Anouschka Hof ¹ , Joakim Hjältén ² ¹ Wageningen University, ² Swedish University of Agricultural Sciences

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14.00-15.30	<p style="text-align: center;">Symposium 09 - Scoping with future challenges in mountain landscapes</p> <p style="text-align: center;">Room: Aula Martini (U6 - 04)</p> <p style="text-align: center;">Session Organisers: Uta Schirpke^{1,2}, Genxu Wang³, Jie Gong⁴, Ulrike Tappeiner^{1,2}, Georg Leitinger¹, Emilio Padoa-Schioppa⁵, Fausto Manes⁶, Per Angelstam⁷</p> <p style="text-align: center;">¹University of Innsbruck, Department of Ecology; ²Eurac Research, Institute for Alpine Environment, ³Institute of Mountain Hazards and Environment, Chinese Academy of Sciences, ⁴Lanzhou University, ⁵University of Milano-Bicocca, ⁶University of Roma - La Sapienza, ⁷Swedish University of Agricultural Sciences</p>
14.00-14.15	T0823 Analyzing the spatial coincidence of environmental stressors and ecosystem service provision in mountain forests Lukas Egarter Vigl ¹ , Thomas Marsoner ¹ , Sebastian Candiago ¹ , Daniel Depellegrin ² ¹ Eurac Research, ² CNR- Ismar

14.15-14.30	T0502 Impact of climate change on the hydrological response of mountain catchments in the Beskydy Protected Landscape Area, Czech Republic. Stanislav Ruman ¹ ¹ <i>University of Ostrava</i>
14.30-14.45	T0157 ALFFA - Holistic (multiscale) analysis of the factors and their effect on the fish fauna in inner-Alpine space Katja Schmölz ¹ , Roberta Bottarin ¹ , Wolfgang Mark ² , Bernd Pelster ² , Josef Wieser ³ , Erich Tasser ¹ ¹ <i>Eurac Research, Institute for Alpine Environment</i> , ² <i>University of Innsbruck</i> , ³ <i>Agentur Landesdomäne - Aquatisches Artenschutzzentrum</i>
14.45-15.00	T0153 Linking ecosystem services and landscape ecological risk into adaptive management in a mountain-basin area in western China Jie Gong ¹ , Erjia Cao ¹ , Yuchu Xie ¹ , Caixian Xu ¹ , Hongying Li ¹ , Lingling Yang ¹ ¹ <i>Lanzhou University</i>
15.00-15.15	T0651 Evaluating methods for participatory identification and mapping of ecosystem services from Andean peri-urban forests in Colombia Francisco J. Escobedo ¹ , Guibor Camargo ¹ , Marius Bottin ¹ , Alejandro Feged ¹ , Nicola Clerici ¹ ¹ <i>Universidad del Rosario, Biology Program</i>
15.15-15.30	T0780 Comparative Study of Ecosystem Service by Scientists' Evaluation and Managers' Perception: a Case Study of Mount Huangshan Scenic and Historic Area Youbo Zhuang ¹ ¹ <i>Tsinghua University</i>

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14.00-15.30	Symposium 50 - Disturbance, degradation, and restoration in fragile ecosystems: Implications for resource distribution and ecosystem service Room: U6 - 05 Session Organisers: Junran Li ¹ , Sujith Ravi ² , Shiliang Liu ³ , Yihe Lv ⁴ ¹ <i>The University of Tulsa, Tulsa, OK, USA</i> , ² <i>Temple University, Philadelphia, PA, USA</i> , ³ <i>Beijing Normal University</i> , ⁴ <i>Research Centre for Eco-environment Sciences, Chinese Academy of Sciences</i>
14.00-14.15	T0257 Loss of soil resources by dust emission due to human activities Itzhak Katra ¹ ¹ <i>Ben-Gurion University</i>
14.15-14.30	T0277 Overland water-flow mechanism for ring formation in water-limited environments: field measurements and mathematical modeling Hezi Yizhaq ¹ , Ilan Stavi ² , Nitzan Swet ¹ , Itzhak Katra ¹ ¹ <i>Ben Gurion University</i> , ² <i>Dead Sea and Arava Science Center</i>
14.30-14.45	T0279 Using rare earth elements to quantify post-fire resource redistribution in a grassland-shrubland transition landscape Junran Li ¹ , Sujith Ravi ² , Guan Wang ¹ ¹ <i>The University of Tulsa</i> , ² <i>Temple University</i>
14.45-15.00	T0420 Quantifying the driving factors of land degradation and restoration using geographically weighted regression in a typical dryland region Yanjiao Ren ^{1,2} , Yihe Lü ^{1,2} ¹ <i>State Key Laboratory of Urban and Regional Ecology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences</i> , ² <i>University of Chinese Academy of Sciences</i>
15.00-15.15	T0424 Precipitation drives the nonlinear trends of fire in Africa Fangli Wei ¹ , Shuai Wang ² , Bojie Fu ¹ ¹ <i>State Key Laboratory of Urban and Regional Ecology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences</i> , ² <i>State Key Laboratory of Earth Surface Processes and Resource Ecology, Faculty of Geographical Science, Beijing Normal University</i>
15.15-15.30	T0438 Mapping degraded alpine rangeland based on quantitative assessment of degradation classification in Lhasa river basin, the Qinghai-Tibetan Plateau Guohua Liu ¹ , Wangya Han ¹ , Xukun Su ¹ , Guohua Liu ¹ ¹ <i>State Key Laboratory of Urban and Regional Ecology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences</i>

Tuesday, 2 July 2019

14.00-15.30	<p align="center">Symposium 45 - Conservation in the city Room: U6 -06 Session Organisers: Heather Sander¹ ¹University of Iowa</p>
14.00-14.15	<p>T0308 Integrated Analysis of Social-ecological Functions of Urban Green Spaces in Traditional Village of Penglipuran, Bali, Indonesia Sadahisa Kato¹, Kosuke Hishiyama² ¹Okayama University, ²Kindai University</p>
14.15-14.30	<p>T0706 Birds in parks: The spatial pattern and factors of bird habitat and birdwatching, Beijing, China Zhengkai Zhang¹, Ganlin Huang¹ ¹School of Natural Resources, Faculty of Geographical Science, Beijing Normal University, Beijing, China</p>
14.30-14.45	<p>T0162 Neighbor mimicry in front yard vegetation and its effects on city-scale plant biodiversity Bianca Lopez¹, Alexis Smith², Emily Minor² ¹National Socio-Environmental Synthesis Center (SESYNC), ²University of Illinois at Chicago</p>
14.45-15.00	<p>T0528 Urban back gardens in landscape-scale conservation planning: what are the barriers and facilitators for urban residents to manage their spaces for wildlife Briony Norton¹, Andrew Ramsey¹, David Sheffield¹ ¹University of Derby</p>
15.00-15.15	<p>T_8830 Conserving Urban Biodiversity: Design Strategies for the Production of Urban Landscapes in Italy Emma Salizzoni¹, Bianca Maria Rinaldi¹, Alessandro Gabbianelli¹ ¹Politecnico di Torino - Interuniversity Department of Regional and Urban Studies and Planning</p>
15.15-15.30	<p>T0180 Designing nature in cities to safeguard meaningful experiences of biodiversity in an urbanizing world Assaf Shwartz¹ ¹Human and biodiversity research group, Technion-Israel Institute of Technology</p>

Tuesday, 2 July 2019	
14.00-15.30	<p align="center">Symposium 13 - Addressing the challenges of the Anthropocene with strategic planning: novel ways to couple ecological sciences and territorial governance Room: U6 - 07 Session Organisers: Hersperger Anna M.¹, Grădinaru Simona R.², Pierri Daunt Beatriz³ ¹Swiss Federal Research Institute WSL, ²University of Bucharest, ³State University of São Paulo</p>
14.00-14.15	<p>T0907 Spatial planning and territorial sustainability: Advances and challenges of strategic environmental assessment. Daniel Rozas¹, María Isabel López¹, Leonila Fernández¹ ¹Faculty of Natural Resources, Department of Environmental Sciences, Geography. Universidad Católica de Temuco</p>
14.15-14.30	<p>T0837 Changing visions: the impact of regional and county planning on land changes in Bucharest urban region Cristian Ioja¹, Simona Grădinaru¹, Ana Maria Popa¹ ¹University of Bucharest</p>
14.30-14.45	<p>T0508 Wind power planning with a multicriteria approach - integrating biodiversity and ecosystem services in the Wind-GIS tool in Västernorrland, Sweden Ulla Mörtberg¹, Deepa Manolan Kandy¹ ¹KTH Royal Institute of Technology, Stockholm</p>
14.45-15.00	<p>T0861 A novel tool for strategic planning: an agent-based model of land use change explores alternative visions for woodland restoration in Scotland Vanessa Burton¹, Calum Brown², Darren Moseley³, Marc Metzger¹ ¹University of Edinburgh, ²Karlsruhe Institute of Technology, ³Forest Research</p>
15.00-15.15	<p>T_9007 Mapping cultural ecosystem services capacity and demand to enhance the understanding of interactions among socio-ecological system</p>

	Sirui Wang ¹ , Zhifang Wang ¹ , Zhongwei Zhu ¹ , Yaojin Zhou ¹ , Yinglu Miu ¹ , Hongpeng Fu ¹ ¹ <i>College of Architecture and Landscape Architecture, Peking University</i>
15.15-15.30	T0554 Ecosystem services as an integral support tool for green infrastructure and landscape planning: a case of agro-industrial landscapes in Latvia Anita Zariņa ¹ , Ivo Vinogradovs ¹ , Anda Ruskule ² ¹ <i>University of Latvia</i> , ² <i>Baltic Environmental Forum</i>

Tuesday, 2 July 2019	
14.00-15.00	Symposium 11 - From urban agriculture to edible cities – challenges and chances for approaching sustainable urban socio-ecological systems Room: U6 - 08 Session Organisers: Martina Artmann ¹ , Jan Vávra ² , Rommel Marius ³ ¹ <i>Leibniz Institute of Ecological Urban and Regional Development (IOER)</i> , ² <i>University of South Bohemia (USB)</i> , ³ <i>ZOE, the Institute for inclusive and sustainable economies</i>
14.00-14.15	T0101 Evaluation of ecosystem services of urban agriculture land for urban planning in Beijing Ruiming Ma ¹ , Jürgen Breuste ¹ , Maryam Bayat ² , Wenju Yun ³ ¹ <i>China Agricultural University</i> , ² <i>Salyburg University</i> , ³ <i>Key Laboratory for Agricultural Land Quality Monitoring and Control</i>
14.15-14.30	T0459 Community gardens as an adaptation and mitigation measure to climate change: an intention or an unexpected benefit for cities? Lenka Dubová ¹ , Jan Macháč ¹ , Alena Vacková ¹ ¹ <i>J. E. Purkyne University in Usti nad Labem, Czech, Republic, Faculty of Social and Economic Studies - Institute for Economic and Environmental Policy</i>
14.30-14.45	T0409 Gradation of urban agriculture – Spatial distribution of various experience farms in the Tokyo Metropolitan Area, Japan Naomi Shimpō ¹ ¹ <i>University of Tsukuba</i>
14.45-15.00	T0384 Solution for community re-building: Exposing the hidden social value of community agriculture in China Xiaoying Ding ¹ , Yukun Zhang ¹ , Juan Wang ¹ ¹ <i>Tianjin University</i>

Tuesday, 2 July 2019	
14.00-15.05	Symposium 22 - Land-use legacies and forest change: understanding the past to forecast the future Symposium 48 - The role of landscape experiments to inform large-scale habitat restoration Room: U6 - 09 Session Organisers (22): Matteo Garbarino ¹ , Peter Weisberg ² ¹ <i>University of Torino, Dept. DISAFA</i> , ² <i>University of Nevada, Reno</i> Session Organisers (48): Kevin Watts ^{1,2} , Kirsty Park ² , Elisa Fuentes-Montemayor ² ¹ <i>Forest Research</i> , ² <i>University of Stirling</i>
14.00-14.15	T0935 Two centuries of extinction debt: landscape heterogeneity in the 18th and 19th centuries influences contemporary woodland ground beetle distribution Chris Foster ¹ , Jessica Neumann ¹ , Geoffrey Griffiths ¹ , Graham Holloway ¹ ¹ <i>University of Reading</i>
14.15-14.30	T9008 Patterns and drivers of habitat loss in a rural landscape over multiple time periods between 1930 and 2015 Lucy Ridding ¹ , Stephen Watson ² , Adrian Newton ² , Clare Rowland ¹ , James Bullock ¹ ¹ <i>Centre for Ecology and Hydrology</i> , ² <i>Bournemouth University</i>
14.30-14.45	T0737 Landscape-level revegetation reverses the decline of woodland birds in rural environments Andrew Bennett ^{1,2} , Greg Holland ¹ , Rohan Clarke ³ ¹ <i>La Trobe University</i> , ² <i>Arthur Rylah Institute for Environmental Research</i> , ³ <i>Monash University</i>

14.45-15.00	T0214 Animal diversity responding to different forest restoration landscapes in the Qinling Mountains, China Xuehua Li ¹ , Yuke Zhang ¹ , Zixin Lv ¹ , Xiangyu Zhao ¹ , Xingzhong Yang ² , Xiaodong Jia ² ¹ <i>State Key Joint Laboratory of Environmental Simulation and Pollution Control, School of Environment, Tsinghua University, Beijing 100084, China,</i> ² <i>School of Life Sciences, Northwestern University, Shaanxi 710069, China</i>
15.00-15.05	T0312 The Transformation of the Cultural Landscape with Washi Paper Industry in Gokayama Area, Japan Wen Wang ¹ , Katsue Fukamachi ¹ , Shozo Shibata ¹ ¹ <i>Kyoto University</i>

Tuesday, 2 July 2019

14.00-15.30	Symposium 65 - Innovating teaching and learning landscape ecology to address the challenges of the Anthropocene (order to be confirmed) Room: U6 - 10 Session Organisers: Veerle Van Eetvelde ¹ , Simona Grădinaru ² , Wenche Dramstad ³ , Werner Rolf ⁴ , Ileana Stupariu ² ¹ <i>University of Ghent, Department of Geography, Landscape Research Unit,</i> ² <i>University of Bucharest,</i> ³ <i>NIBIO,</i> ⁴ <i>Chair for Strategic Landscape Planning and Management, Technical University of Munich</i>
14.00-14.15	Introduction to Symposium 65
14.15-14.30	T0265 Between theory and practice - New training formats against the background of changing needs Anneliese Fuchs ¹ , Elisabeth Bachlechner ¹ , Michael Jungmeier ¹ , Susanne Glatz-Jorde ¹ ¹ <i>E.C.O. Institute of Ecology</i>
14.30-14.45	T0955 Landscape' / 'Architecture' / 'Seeing' / 'Acting' Structuring disciplinary dichotomies for ecological learning Rosalea Monacella ¹ , Bridget Keane ² ¹ <i>Harvard University,</i> ² <i>MIT University</i>
14.45-15.00	T0887 Bringing Landscape closer to biologists: teamwork for facing Anthropocene challenges in real life socioecosystems César Agustín López Santiago ¹ , Jose Antonio Gonzalez Novoa ¹ ¹ <i>Universidad Autónoma de Madrid</i>
15.00-15.15	T0838 Landscape ecology in environmental education in Russian universities: is there a need for change in a changing environment? Oxana Klimanova ¹ , Nina Alexeeva ¹ ¹ <i>Lomonosov Moscow State University</i>
15.15-15.20	T0942 Going beyond traditional teaching methods with Inquiry Based Science Learning (IBSE) Marta Panisi ¹ ¹ <i>ANISN (associazione Nazionale Insegnanti di Scienze Naturali); Liceo Camillo Golgi - Breno (BS)</i>
15.20-15.25	T0256 Teaching and learning landscape ecology to landscape architects in Italy toward protective, adaptative, redundant landscape design Adriana Ghersi ¹ , Ilda Vagge ² ¹ <i>University of Genoa, Department of Architecture and Design, Polytechnic School,</i> ² <i>University of Milan, Department of Agricultural and Environmental Sciences</i>
15:25-15:30	T0612 Impactful partnerships among graduate students and managers for regenerative landscape design Erica Smithwick Smithwick ¹ ¹ <i>The Pennsylvania State University</i>

Tuesday, 2 July 2019

14.00-15.15	Symposium 55 - Assessing the patterns and drivers of land-use intensity change Room: U6 - 12 Session Organisers: Robert Pazur ¹ , Matthias Bürgi ¹ , Alexander Prishchepov ² ¹ <i>Swiss Federal Research Institute WSL,</i> ² <i>University of Copenhagen</i>
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14.00-14.15	T0748 Land system intensity change and their drivers in Mediterranean agricultural landscapes: a case study of the Vaucluse department (France) Marta Debolini ¹ , Martine Guerif ¹ <i>INRA UMR EMMAH</i>
14.15-14.30	T0769 Landscape Modification, Livelihood Losses, and Socio-political Conflicts: A Geospatial Analysis of Coastal Aquaculture Practices in West Bengal, India Debajit Datta ¹ , Mrinmoyee Naskar ² <i>¹Jadavpur University, ²Baruipur College</i>
14.30-14.45	T0944 Understanding the effect of historic mega-fires on the structure and functions of Patagonian landscape of Chilean Ángela Hernandez-Moreno ¹ <i>Centro de Investigación en Ecosistemas de la Patagonia</i>
14.45-14.50	T0566 Exposure to human influence – an alternative spatial variable for land use change modelling Michal Druga ¹ , Jozef Minár ¹ <i>Department of Physical Geography and Geoecology, Faculty of Natural Sciences, Comenius University in Bratislava</i>
14.50-14.55	T0637 Past and present: 60 years of land use dynamics in south-central Chile. Katherine Gabriela Hermosilla Palma ¹ , Patricio Plischoff ¹ <i>Pontificia Universidad Católica de Chile</i>
14.55-15.00	T0698 Land use intensity as a driving factor of semi-natural grassland management in relation to habitat type and rarity in Latvia (Eastern Baltic) Solvita Rūsiņa ¹ , Pēteris Lakovskis ² , Ilze Dūmiņa ¹ , Didzis Elferts ³ , Lauma Kupča ⁴ , Lauma Gustiņa ¹ <i>¹Faculty of Geography and Earth Sciences, University of Latvia, ²Institute of Agricultural Resources and Economics, ³Faculty of Biology, University of Latvia, ⁴Latvian Museum of Natural History</i>
15.00-15.05	T0759 Conserving Fragmented Mangroves in an Intensely Populated Landscape: A Multi-temporal Analysis of Forest Cover Changes in Coastal Odisha, India Sohini Neogy ¹ , Debajit Datta ¹ <i>Jadavpur University</i>
15.05-15.10	T0905 Drivers and effects of long term land use and landscape changes in the Sudety Mountains, SW Poland Agnieszka Latocha ¹ , Mariusz Szymanowski ¹ <i>University of Wrocław, Institute of Geography and Regional Development</i>
15.10-15.15	T0921 Abandonment of agriculture on Russian steppe: spatial determinants and landscape configuration Robert Pazur ¹ , Alexander Prishchepov ² , Ksenya Myachina ³ , Sergey Levykin ³ , Matthias Bürgi ¹ <i>¹Swiss Federal Research Institute WSL, ²University of Copenhagen, ³Institute of Steppe of the Ural Branch of the Russian Academy of Sciences</i>

Tuesday, 2 July 2019

14.00-15.30	<p style="text-align: center;">Symposium 14 - Linking natural and anthropogenic forces: landscape pattern and processes in global urbanized deltas and lowlands</p> <p style="text-align: center;">Room: U6 - 18</p> <p style="text-align: center;">Session Organisers: Zhifeng Wu¹, Paolo Tarolli², Xiuzhen Li³ ¹Guangzhou University, ²Padova University, ³East China Normal University</p>
14.00-14.15	T0578 Identifying upstream locations critical for downstream floods Karen Gabriels ¹ , Jos Van Orshoven ¹ , Patrick Willems ² <i>¹Department of Earth and Environmental Sciences, KU Leuven, ²Department of Civil Engineering, KU Leuven</i>
14.15-14.30	T0689 Coastal Delta in the Context of Urbanization and Global Change: Challenges and Sustainable Development Zhifeng Wu ¹ , Song Song ¹ , Weiguo Jiang ² , Xiankun Yang ¹ <i>¹Guangzhou University, ²Beijing Normal University</i>
14.30-14.45	T0712 Evaluating the anthropic impact on Indonesian Peatlands using the Airborne Electromagnetic method Sonia Silvestri ¹ , Rosemary Knight ² , Andrea Viezzoli ³ , Curtis Richardson ⁴ , Gusti Anshari ⁵ , Noah Dewar ² <i>¹Universita' di Padova – TESAF, ²Stanford University, ³Aarhus Geophysics, ⁴Duke University, ⁵Tanjungpura University</i>
14.45-15.00	T0730 Cooling effect of water body in the Pearl River Delta: Patch size threshold

	Qianyuan Liu ¹ , Jian Peng ² ¹ <i>Key Laboratory for Environmental and Urban Sciences, School of Urban Planning and Design, Shenzhen Graduate School, Peking University</i> , ² <i>Laboratory for Earth Surface Processes, Ministry of Education, College of Urban and Environmental Sciences, Peking University</i>
15.00-15.15	T0760 Analysing fragmentation patterns of interdunal wetlands along Medinipur Coastal Plain, India using landscape matrices Asit Kumar Roy ¹ , Debajit Datta ¹ ¹ <i>Jadavpur University</i>
15.15-15.30	Discussion

Tuesday, 2 July 2019	
14.00-15.30	<p>Symposium 39 - The design of the contemporary cities through a green and blue infrastructure for Ecosystem services provision</p> <p>Room: U6 – 1A</p> <p>Session Organisers: Silvia Ronchi¹, Andrea Arcidiacono¹, Angela Colucci²</p> <p>¹<i>Department of Architecture and Urban Studies (DASTU), Politecnico di Milano</i>, ²<i>REsilienceLAB / SIEP-IALE</i></p>
14.00-14.15	Introduction to Symposium 39
14.15-14.30	<p>T0859 From Landscape Vulnerability to Green Infrastructures values: towards a new governance</p> <p>Maddalena Gioia Gibelli¹, Alessandra Borghini¹, Luca Dorbolò¹, Natalia Marzia Gusmerotti², Luigino Pirola³ Jacopo Chiara³, Maria Quarta³, Sarah Braccio³, Francesca La Greca³, Giorgio Pelassa³, Elena Porro ¹<i>Studio Gioia Gibelli</i>, ²<i>Istituto di Management, Scuola Superiore Sant'Anna- Pisa</i>, ³<i>Studio Architettura del Paesaggio</i> ³<i>Gruppo di lavoro Regione Piemonte</i></p>
14.30-14.45	<p>T0328 Greening the space – co-designing the city under socio-economic transformation.</p> <p>Renata Włodarczyk-Marciniak¹, Kinga Krauze¹, Daria Sikorska¹ ¹<i>European Regional Centre for Ecohydrology of the Polish Academy of Sciences</i></p>
14.45-15.00	<p>T0860 A multimethodological approach toward the evaluation of Ecosystem Services. A case study in the South of Milan</p> <p>Stefano Corsi¹, Antonio Longo¹, Catherine Dezio¹, Alessandra Oppio¹ ¹<i>DISAA – Unimi</i></p>
15.00-15.15	<p>T0829 CLEVER Cities up-running co-creation of Nature-Based Solutions: The Launch of urban Action Labs in Milan, Italy</p> <p>Israa Mahmoud¹, Marina Trentin², Maria Berrini³, Lorenzo Bono³, Stefano Casagrande⁴, Eugenio Morello¹ ¹<i>DASTU, Politecnico di Milano</i>, ²<i>Eliante</i>, ³<i>Ambiente Italia</i>, ⁴<i>Comune di Milano</i></p>
15.15-15.30	<p>T0701 The Padova Walls and Water Park: how to employ a renaissance urban asset in our days</p> <p>Gianumberto Caravello^{1,2}, Eleni Katelouzou², Daniela Sartorato², Fiorenzo CATERA², Gianpaolo Barbario³, Vittorio Spigai⁴ ¹<i>Padova University</i>, ²<i>Comitato Mura di Padova</i>, ³<i>Gruppo Giardino Storico - Università di Padova</i>, ⁴<i>IUAV (Istituto Universitario di Architettura di Venezia) & Comitato Mura di Padova</i></p>

Tuesday, 2 July 2019	
14.00-15.30	<p>Symposium 56 - Biodiversity spillover in fragmented landscapes and effects on ecosystem services provision and regulation</p> <p>Room: U6 – 1B</p> <p>Session Organisers: Andrea Larissa Boesing¹, Paula Ribeiro Prist¹</p> <p>¹<i>Department of Ecology, University of São Paulo</i></p>
14.00-14.15	Introduction to Symposium 56
14.15-14.30	<p>T0619 Landscape structure as driver of avian-cross habitat spillover into agricultural matrices</p> <p>Andrea Larissa Boesing¹, Elizabeth Nichols², Thiago Simon Marques³, Luiz Antonio Martinelli⁴, Jean Paul Metzger⁵ ¹<i>University of São Paulo</i>, ²<i>Department of Biology, Swarthmore College</i>, ³<i>500 College</i></p>

	<i>Avenue, Swarthmore, USA, ³Center for Environmental Studies, University of Sorocaba, ⁴Center for Nuclear Energy in Agriculture, University of São Paulo, ⁵Department of Ecology, University of São Paulo</i>
14.30-14.45	P0222 Landscape structure effects on the interaction of ants and birds as providers of pest control in coffee farms Natalia Aristizábal ¹ , Felipe Librán-Embid ² , Andrea Larissa Boesing ³ , Guilherme Prata Gonçalves ⁴ , Emilien Rottier ⁵ , Jean Paul Metzger ³ ¹ <i>University of Vermont</i> , ² <i>Georg-August-Universität Göttingen</i> , ³ <i>University of São Paulo</i> , ⁴ <i>São Paulo State University</i> , ⁵ <i>University of Angers</i>
14.45-15.00	T0110 A landscape perspective to optimize coffee yields through forest cover management at regional scales Adrian David González Chaves ¹ , Luísa Carneiro ² , Lucas Garibaldi ³ , Jean Paul Metzger ¹ ¹ <i>Universidade de São Paulo, Department of Ecology</i> , ² <i>Universidade de Goiás</i> , ³ <i>Universidad Nacional de Río Negro</i>
15.00-15.15	P0127 Does Semi-Natural Habitat Amplify Beneficial Spider Populations in a California Organic Vineyard? Cord Phelps ¹ , Lindsey Norgrove ¹ ¹ <i>Bern University of Applied Sciences</i>
15.15-15.30	T_9009 Complimentary spillover of tropical forest bees into surrounding open areas varies according to landscape context Danilo Boscolo ¹ , Laura Nery ¹ , Patricia Alves Ferreira ¹ , Juliana Takata ¹ ¹ <i>University of São Paulo</i>

Tuesday, 2 July 2019

14.00-15.00	<p style="text-align: center;">Symposium 02 - From conservation priority area to ecological security pattern Room: U6 – 1C Session Organisers: Jian Peng¹, Jeroen Meersmans² ¹<i>Peking University - College of Urban and Environmental Sciences</i>, ²<i>Cranfield University - School of Water, Energy and Environment</i></p>
14.00-14.15	T0913 The role of nature-based solutions for water and wastewater treatment in delivering ecosystem services and habitat connectivity in their wider landscape context. Joanna Zawadzka ¹ , Elaine Gallagher ¹ , Heather Smith ¹ , Ronald Corstanje ¹ ¹ <i>Cranfield University</i>
14.15-14.30	T0732 Nature-based Regulation to Urban Thermal Risks: A Human Health Perspective Junxiang Li ¹ , Caiyan Wu ¹ , Shengzi Chen ¹ ¹ <i>East China Normal University</i>
14.30-14.45	T0959 Identifying the hotspots of anthropogenic heat in urban regions Ranhao Sun ¹ ¹ <i>Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences</i>
14.45-15.00	T0330 Linking spatio-temporal change of urban heat island with cooling corridors identification in urban agglomeration Yaxin Hu ¹ , Jian Peng ² ¹ <i>Peking University Shenzhen Graduate School</i> , ² <i>Peking University College of Urban Environmental sciences</i>

Tuesday, 2 July 2019

14.00-15.30	<p style="text-align: center;">Session Anthropogenic landscapes Room: U6 – 1D</p>
14.00-14.15	T0151 Agricultural Landscapes of Densification. The Case of Luxembourg. Ivonne Weichold ¹ ¹ <i>University Luxembourg</i>
14.15-14.30	T0112 Contribution of living landscapes on ecosystem services in small-holder farming systems Yi Zou ¹ , Felix J. J. A. Bianchi ² , Joop de Kraker ³ , Haijun Xiao ⁴ , Wopke van der Werf ⁵ ¹ <i>Department of Health and Environmental Sciences, Xi'an Jiaotong-Liverpool University</i> , ² <i>Farming Systems Ecology, Wageningen University and Research</i> , ³ <i>Department of Science, Open University</i> , ⁴ <i>Institute of</i>

	<i>Entomology, Jiangxi Agricultural University, ⁵Centre for Crop Systems Analysis, Wageningen University and Research</i>
14.30-14.45	T0666 Identifying and supporting High Nature Value farmlands: lessons learned and future needs Sebastian Klimek ¹ , Ângela Lomba ² , Michael Strohbach ³ , Jens Dauber ¹ , David McCracken ^{4,1} <i>Thünen Institute of Biodiversity, ²CIBIO-InBIO, Centro de Investigação em Biodiversidade e Recursos Genéticos da Universidade do Porto, ³Landscape Ecology and Environmental Systems Analysis, Institute of Geoecology, Technische Universität Braunschweig, ⁴Hill & Mountain Research Centre, Scotland's Rural College</i>
14.45-15.00	T0235 Can private property increase land degradation in pastoralist systems? The tragedy of the commons in the North-Eastern Qinghai-Tibetan Plateau in China. Mattia C. Mancini ¹ , James D. A. Millington ^{1,1} <i>Department of Geography, King's College London</i>
15.00-15.15	T0344 Place-Participation, Place-Alienation and Place-Production in Vernacular Landscape Sevgi Gormus ¹ , Serhat Cengiz ¹ , Bulent Yilmaz ^{1,1} <i>Inonu University College of Fine Art and Design Landscape Architecture Department</i>
15.15-15.30	T0517 Landscape ecology and tourism research - intangible risks and tangible rewards Sylwia Kulczyk ^{1,1} <i>University of Warsaw, Faculty of Geography and Regional Studies</i>

Tuesday, 2 July 2019

14.00-15.30	<p style="text-align: center;">Symposium 67 - Towards visionary peri-urban landscapes? Environmental governance mixes for sustainable peri-urbanization.</p> <p style="text-align: center;">Room: U6 – 1E</p> <p style="text-align: center;">Session Organisers: Marcin Spyra¹, Christine Fürst¹, Tereza Aubrechtova², Alina Schürmann¹ ¹<i>Marthin Luther University Halle – Wittenberg, ²University of Ostrava</i></p>
14.00-14.15	Introduction to Symposium 67
14.15-14.30	T0624 Beyond boundaries, collaborative governance in periurban landscapes. Evidences from Alpine metropolitan areas Aurore Meyfroidt ¹ , Martina Van Lierop ² , Alessandro Betta ^{3,1} <i>University Grenoble Alpes, ²Technical University Munich, ³University of Trento</i>
14.30-14.45	T0114 Where houses and wildland vegetation meet – meta-analysis of criterions and methods of Wildland–Urban Interface determination Dominik Kaim ^{1,1} <i>Jagiellonian University</i>
14.45-15.00	T0821 It takes a region: weaving a strong partnership to grow a healthier urban forest Melissa Cusic ^{1,1} <i>Chicago Region Trees Initiative</i>
15.00-15.15	T0401 Analysis of Changes in Rural Landscape Interiors with the Use of Sectoral Analysis of Landscape Interiors (SALI, SAWK in Polish) - an Example from the Peri-Urban Zone of Wrocław (Poland) Irena Niedźwiecka-Filipiak ¹ , Justyna Rubaszek ¹ , Anna Podolska ¹ , Jowita Pyszczyk ^{1,1} <i>Wrocław University of Environmental and Life Sciences</i>
15.15-15.30	T_8869 Research on the Integration Strategy of Suburban Fragmentation Landscape- Taking the Planning of Country Park Ring in Beijing Plain area as an Example Ruodong Han ¹ , Jianning Zhu ¹ , Tingting Huang ¹ , Ying Zhang ^{1,1} <i>Beijing Forestry University</i>

Tuesday, 2 July 2019

16.00-16.50	<p style="text-align: center;">Symposium 19 - Promoting Ecosystem Services for Sustainable Development Goals</p> <p style="text-align: center;">Room: Aula Magna</p> <p style="text-align: center;">Session Organisers: Wenwu Zhao¹, Yihe Lu², Manish Kumar Goyal⁵, Francesco Cherubini³, Walter Musakwa⁴, Richard Ross Shaker⁶, Stefani Daryanto⁷</p>
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	¹ Faculty of Geographical Science, Beijing Normal University, ² Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, ³ Norwegian University of Science and Technology, ⁴ University of Johannesburg, ⁵ Indian Institute of Technology Indore, ⁶ Ryerson University, ⁷ Indiana University – Purdue University Indianapolis
16.00-16.05	T0310 Spatial and temporal dynamics of ecosystem services in the Sanjiangyuan National Park, China Wei Cao ¹ , Dan Wu ² , Lin Huang ¹ , Jiangwen Fan ¹ , Yunfeng Hu ¹ ¹ Institute of Geographic Sciences and Natural Resources Research, CAS, ² Nanjing Institute of Environmental Sciences, Ministry of Environmental Protection
16.05-16.10	T0361 Different household livelihood strategies and influencing factors in Inner Mongolia's typical steppe Yang Liu ¹ , Jianguo Wu ² , Deyong Yu ¹ , Yongzhi Yan ³ , Wanxin Hei ³ , Qing Zhang ³ ¹ Center for Human–Environment System Sustainability (CHESS), State Key Laboratory of Earth Surface Processes and Resource Ecology (ESPRE), Beijing Normal University, ² School of Life Science & Global Institute of Sustainability, Arizona State University, ³ Ministry of Education Key Laboratory of Ecology and Resource Use of the Mongolian Plateau, School of Ecology and Environment, Inner Mongolia University
16.10-16.15	T0379 Significant Green Tree Retention in the Southern United States Contributes to Biodiversity Steve Demarais ¹ , Michael Parrish ¹ , T. Bently Wigley ² , Phil Jones, Andy Ezell ¹ ¹ Mississippi State University, ² National Council for Air and Stream Improvement
16.15-16.20	T0457 Mapping and promoting cultural ecosystem services using public participation for Sustainable Development Goals in Central-Hungary István Valánszki ¹ , Sándor Jombach ¹ , Krisztina Filepné Kovács ¹ ¹ Szent István University, Faculty of Landscape Architecture and Urbanism, Department of Landscape Planning and Regional Development
16.20-16.25	T0491 Application and challenge of big data in ecosystem service evaluation Zhongwei Zhu ¹ ¹ Peking University
16.25-16.30	T0495 An Integrated Land Use based Framework Matching Local Demand and Supply of Urban Ecosystem Services and Directing to the Implementation Actions in Fengxian District, Shanghai Wei Linlin ¹ , Ma Chen ¹ , Pan Sufeng ¹ , Cai Yongli ¹ ¹ East China Normal University
16.30-16.35	T0773 The effect of climate and land use change on global soil erosion Yi-Ming An ¹ , Wenwu Zhao ¹ , Ruijie Zhai ¹ ¹ Faculty of Geographical Science, Beijing Normal University
16.35-16.40	T0799 Plant-associated microorganisms may contribute to air pollution reduction in Milan urban area (northern Italy) Isabella Gandolfi ¹ , Emilio Padoa Schioppa ¹ , Claudia Canedoli ¹ , Diego Brambilla ¹ , David Cappelletti ² , Bartolomeo Sebastiani ² ¹ University of Milano-Bicocca, Dept. of Earth and Environmental Sciences, ² University of Perugia, Dipartimento di Chimica, Biologia e Biotecnologie
16.40-16.45	T0914 The role of urban green spaces in care facilities for elderly people. Case study Romania Diana Andreea Onose ¹ , Cristian Ioan Iojă ¹ , Martina Artmann ² , Ana Maria Popa ¹ , Cristina Mitincu ¹ ¹ University of Bucharest - Centre for Environmental Research and Impact Studies, ² Leibniz Institute of Ecological Urban and Regional Development (IOER)
16.45-16.50	T0598 Establishment and Application of Ecological Suitability Evaluation System for Highway Line Selection Zhaoming Wang ¹ ¹ Research institute of highway, Ministry of Transport, China.

Tuesday, 2 July 2019

16.00-16.45	<p style="text-align: center;">Symposium 30 - Mapping and monitoring farmland biodiversity and ecosystem services</p> <p style="text-align: center;">Room: U6 - 02</p> <p style="text-align: center;">Session Organisers: Felix Herzog¹, Yunhui Liu², Majid Iravani³, Tian Xiang Yue⁴</p> <p style="text-align: center;">¹Agroscope, ²China Agricultural University, ³University of Alberta / Alberta Biodiversity Monitoring Institute, ⁴Chinese Academy of Sciences</p>
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16.00-16.15	T0586 Surface modelling of biodiversity and ecosystem services in China Tianxiang Yue ¹ ¹ <i>State Key Laboratory of Resources and Environment Information System, Institute of Geographical Sciences and Natural Resources Research, University of Chinese Academy of Sciences</i>
16.15-16.30	T0718 Developing a Semi-Automatic Classification tool to map habitats and GBI at European scale using OBIA method Judit Rubio-Delgado ¹ , Adara Pardo ¹ , Rolo Victor ¹ , María Jesús Montero ¹ , Gerardo Moreno ¹ ¹ <i>INDEHESA, Forest Research Group, University of Extremadura</i>
16.30-16.45	T0397 Mapping the Supply and Demand of Pollination Service for Pollination management: A Case Study in the Changping District of Beijing, China Yunhui Liu ¹ , Xiao Song ¹ , Panglong Wu ¹ ¹ <i>College of Resources and Environmental Sciences, China Agricultural University</i>

Tuesday, 2 July 2019	
16.00-17.30	Session Biodiversity Conservation Room: U6-03
16.00-16.15	T0843 Species traits and landscape changes as drivers of time lags in population decline and recovery Lauren Enright ¹ , Lisbeth Morrison ² , Katie Willis ¹ , Kevin Watts ³ , Simon Duffield ⁴ ¹ <i>Imperial College London</i> , ² <i>University of Reading</i> , ³ <i>Forest Research</i> , ⁴ <i>Natural England</i>
16.15-16.30	T_9010 Importance of habitat landscape heterogeneity to big mammal species: taking giant panda as the case Xuehua Liu ¹ ¹ <i>Tsinghua University</i>
16.30-16.45	T_0991 Movements and habitat use of river dolphins (Cetartiodactyla: Iniidae) in the Amazon and Orinoco river basins, determined from satellite tagging Federico Mosquera Guerra ¹ , Fernando Trujillo ¹ , Marcelo Oliveira ² , Miriam Marmontel ³ , Hugo Mantilla-Meluk ⁴ ¹ <i>Fundación Omacha</i> , ² <i>WWF</i> , ³ <i>Mamiraguá</i> , ⁴ <i>Universidad del Quindío</i>
16.45-17.00	T0757 Managing fire and fauna Down Under – spatially explicit solutions to understand bird distributions in disparate ecosystems Frederick Rainsford ¹ , Kate Giljohann ² , Kate Senior ² , Luke Kelly ² , Andrew Bennett ¹ ¹ <i>La Trobe University</i> , ² <i>University of Melbourne</i>
17.00-17.15	T0766 Monitoring and Mapping of Avifauna Diversity towards Assessment of Wetland Ecosystem Health: A Study of Ichhamati Floodplains in West Bengal, India Jibananda Gayen ¹ , Debajit Datta ¹ ¹ <i>Jadavpur University</i>
17.15-17.30	T0793b Managing fire and fauna Down Under – spatially explicit solutions to understand bird distributions in disparate ecosystems Frederick Rainsford ¹ , Kate Giljohann ² , Kate Senior ² , Luke Kelly ² , Andrew Bennett ¹ ¹ <i>La Trobe University</i> , ² <i>University of Melbourne</i>

Tuesday, 2 July 2019	
16.00-17.45	Symposium 09 - Scoping with future challenges in mountain landscapes Room: Aula Martini (U6 - 04) Session Organisers: Uta Schirpke ^{1,2} , Genxu Wang ³ , Jie Gong ⁴ , Ulrike Tappeiner ^{1,2} , Georg Leitinger ¹ , Emilio Padoa-Schioppa ⁵ , Fausto Manes ⁶ , Per Angelstam ⁷ ¹ <i>University of Innsbruck, Department of Ecology</i> ; ² <i>Eurac Research, Institute for Alpine Environment</i> , ³ <i>Institute of Mountain Hazards and Environment, Chinese Academy of Sciences</i> , ⁴ <i>Lanzhou University</i> , ⁵ <i>University of Milano-Bicocca</i> , ⁶ <i>University of Roma - La Sapienza</i> , ⁷ <i>Swedish University of Agricultural Sciences</i>
16.00-16.15	T0639 The Concept of Green Carrying Capacity and Application Framework of Green Carrying Capacity in Three-River-Source National Park Genxu Wang ¹ , Hui Yu ¹ , Genxu Wang ¹ , Yan yang ¹ , Ruiying Chang ¹ , Yaqiong Lv ¹ ¹ <i>Institute of Mountain Hazards and Environment, Chinese Academy of Sciences</i>

16.15-16.30	T0044 Upcoming trade-offs between ecosystem services in mountain regions: outdoor recreation vs. habitat provision Hieronymus Jäger ¹ , Uta Schirpke ² , Ulrike Tappeiner ¹ ¹ University of Innsbruck, ² Eurac Research
16.30-16.45	T_8908 Landscape protection vs mountain economic development – can conflicts be avoided? The Sudety Mountains case study (SW Poland) Karolina Krolukowska ¹ , Agnieszka Latocha ² ¹ WSB University in Wroclaw, ² Institute of Geography and Regional Development, University of Wroclaw
16.45-17.00	T0094 Are forested landscapes protecting against torrential hazards? Empirical, large scale evidence from the Alps Julius Sebald ¹ , Cornelius Senf ² , Micha Heiser ³ , Christian Scheidl ³ , Dirk Pflugmacher ⁴ , Rupert Seidl ¹ ¹ Institute for Silviculture, Department of Forest and Soil Sciences, University of Natural Resources and Life Sciences (BOKU) Vienna, ² Integrative Research Institute on Transformations of Human-Environment Systems (IRI THESys), ³ Institute of Mountain Risk Engineering, Department of Civil Engineering and Natural Hazards, University of Natural Resources and Life Sciences (BOKU) Vienna, ⁴ Geography Department, Humboldt-Universität zu Berlin
17.00-17.15	T0577 Long-term economic valuation of the protection service of forests against rockfall considering disturbances Christine Moos ¹ , Dorren Luuk ¹ , Mélanie Thomas ¹ ¹ Bern University of Applied Sciences
17.15-17.20	T0057 Effects of habitat structure and human disturbance on wintering black necked cranes in protected areas, Southwest China Zhaolu Wu ¹ ¹ School of Ecology and Environmental Sciences & Yunnan Key Laboratory for Plateau Mountain Ecology and Restoration of Degraded Environments, Yunnan University
17.20-17.25	T0140 Spatiotemporal variation of heavy metal pollutions and ecological risk assessment in the Qinling Mountains Xuehua Liu ¹ , Zhaoxue Tian ¹ , Wanlong Sun ¹ , Yuke Zhang ¹ , Xiangbo He ² , Baisuo He ³ ¹ Tsinghua University, ² Foping Nature Reserve, ³ Shaanxi Changqing National Nature Reserve Administration
17.25-17.30	T0411 Ground bryophytes regulate soil carbon cycling in subalpine forest ecosystem on the east edge of the Tibet Plateau Shouqin Sun ¹ , Genxu Wang ¹ ¹ Institute of Mountain Hazards and Environment, Chinese Academy of Sciences
17.30-17.35	T0555 Anthropogenic nitrogen deposition increases soil carbon sequestration by enhancing new carbon of the soil aggregate formation in a montane forest Ruiying Chang ¹ , Genxu Wang ¹ ¹ Key Laboratory of Mountain Environment Evolution and Regulation, Institute of Mountain Hazards and Environment, Chinese Academy of Sciences
17.35-17.40	T0503 Impact of climate change on the hydrological response of mountain catchments in the Beskydy Protected Landscape Area, Czech Republic. Stanislav Ruman ¹ ¹ University of Ostrava
17.40-17.45	T_0977 Effects of Fire Severity and Topography on Soil Black Carbon Accumulation in Boreal Forest of Northeast China Yu Chang ¹ , Wentao Huang ² , Yuanman Hu ¹ ¹ CAS Key Laboratory of Forest Ecology and Management, Institute of Applied Ecology, Chinese academy of Sciences, ² Institute of Applied Ecology, Chinese academy of Sciences

Tuesday, 2 July 2019

16.00-17.30	<p style="text-align: center;">Symposium 50 - Disturbance, degradation, and restoration in fragile ecosystems: Implications for resource distribution and ecosystem service</p> <p style="text-align: center;">Room: U6 - 05</p> <p style="text-align: center;">Session Organisers: Junran Li¹, Sujith Ravi², Shiliang Liu³, Yihe Lv⁴</p> <p style="text-align: center;">¹The University of Tulsa, Tulsa, OK, USA, ²Temple University, Philadelphia, PA, USA, ³Beijing Normal University, ⁴Research Centre for Eco-environment Sciences, Chinese Academy of Sciences</p>
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16.00-16.15	T0484 Fire history influences butterfly diversity in critically endangered south african renosterveld Emmeline Topp ¹ , Jacqueline Loos ² , Friederike Sieve ³ , Teja Tschardt ¹ ¹ Georg-August University Göttingen, ² Institute of Ecology, Faculty of Sustainability, Leuphana University Lüneburg, ³ Leuphana University Lüneburg
16.15-16.30	T0635 The changes in the vegetation patterns in human dominated landscapes caused by disturbances and degradation. Diana Pungar ¹ , Robert Gerald Henry Bunce ¹ , Kalev Sepp ¹ , Janar Raet ¹ , Miguel Villoslada Peciña ¹ ¹ Estonian University of Life Sciences (EMU)
16.30-16.45	T0652 Effects of invasive plant species Quercus rubra on native forest ecosystems Chiara Ferré ¹ , Rodolfo Gentili ¹ , Elisa Cardarelli ² , Chiara Montagnani ¹ , Giuseppe Bogliani ² , Sandra Citterio ¹ ¹ Department of Earth and Environmental Sciences, University of Milano-Bicocca, Piazza della Scienza 1, 20126 Milano, Italy, ² Department of Earth and Environmental Science, University of Pavia, Via Ferrata 9, 27100 Pavia, Italy
16.45-17.00	T0945 Effects of land use and cover change and disturbances regime on the spatial resilience characteristics of the coastal landscape of south-central Chile. Gonzalo Rebolledo ^{1,2,3} , Cristian Echeverría ^{2,4} , Mauricio Aguayo ^{2,5} ¹ Doctorado en Ciencias Ambientales, Facultad de Ciencias Ambientales, Universidad de Concepción, Chile, ² Laboratorio de Ecología del Paisaje, Facultad de Ciencias Forestales, Universidad de Concepción, Chile, ³ Laboratorio de Planificación Territorial, Depto. de Ciencias Ambientales, Universidad Católica de Temuco, Chile, ⁴ Núcleo Milenio Centro para el Impacto Socioeconómico de las Políticas Ambientales (CESIEP), ⁵ Centro EULA Chile, Facultad de Ciencias Ambientales, Universidad de Concepción, Chile.
17.00-17.15	T_1001 Increased soil methane emissions and methanogenesis in oil contaminated areas Juejie Yang ¹ ¹ Department of Environmental Science and Engineering, Tsinghua University
17.15-17.20	T0289 Biodiversity Maintenance Mechanism of Community Succession in Karst Rocky Desertification Restoration Area in Yunnan, China Kun Li ¹ , Zihao Zhang ² , Shuxin Fan ¹ , Peiyao Hao ¹ , Li Dong ¹ ¹ Beijing Forestry University, ² University of Virginia
17.20-17.25	T0538 Enhancing protection for wetlandscapes Irena Creed ¹ ¹ University of Saskatchewan
17.25-17.30	T0539 Spatiotemporal heterogeneity of land use change due to the ecological restoration and urbanization in the Chinese loess hilly region Haitang Hu ¹ , Yihe LV ² ¹ Beijing Research Center for Information Technology in Agriculture, BAFFS, ² Research Center for Eco-Environmental Sciences, CAS

Tuesday, 2 July 2019

16.00-17.30	<p style="text-align: center;">Symposium 13 - Addressing the challenges of the Anthropocene with strategic planning: novel ways to couple ecological sciences and territorial governance</p> <p style="text-align: center;">Room: U6 - 07</p> <p style="text-align: center;">Session Organisers: Hersperger Anna M.¹, Grădinaru Simona R.², Pierri Daunt Beatriz³ ¹Swiss Federal Research Institute WSL, ²University of Bucharest, ³State University of São Paulo</p>
16.00-16.05	T0770 Identifying key nodes of ecological restoration using complex network theory Danna Lyu ¹ , Jian Peng ² ¹ School of Urban Planning and Design, Shenzhen Graduate School, Peking University, ² College of Urban and Environmental Sciences, Peking University
16:05-16:10	T0899 Assessing and monitoring land management on functional urban areas: a suggested framework and indicator Erika Bazzato ¹ , Michela Marignani ¹ ¹ University of Cagliari
16:10-16.15	T0494 Inundation simulation for the riverbed elevation changes caused by quarrying in Panay River, Capiz, Philippines Aicel Mae Alvarez ¹ , Nappy Navarra ¹ ¹ College of Architecture, University of the Philippines

16.15-16.30	T_8868 Coproducing a local Landscape Character Assessment to guide strategic planning for Wilmslow, Cheshire Jonathan Porter ¹ , Jemma Simpson ¹ , John Handley ² , Jean Hill ² ¹ <i>Countryside, 2</i> <i>Wilmslow Neighbourhood Plan Group</i>
16.30-16.45	T0946 Evolution of strategic planning in a flagship protected area of China Wei Liu ¹ , Dihua Li ² ¹ <i>IASA, 2</i> <i>Peking University</i>
16.45-16.50	T0657 Ecosystem service assessment as basis for regional development planning, steering concept and educational activities Johannes Ruedisser
16.50-16.55	T_0993a Worldwide human-wildlife conflicts: insights on why parrots forage in agricultural lands and its outcomes Jomar Magalhaes Barbosa
16.55-17.00	T0482 Assessing the extent of wildlife vehicle collisions (WVCs) on Cyprus road network Ioannis Vogiatzakis ¹ , Savvas Zotos ¹ , Maria Zomeni ¹ , Vassilis Litskas ¹ , Stalo Leontiou ¹ , Ioannis Vogiatzakis ¹ ¹ <i>Open University of Cyprus</i>
17.00-17.15	T_0971 Rural landscape strategies – between conflict management and place making JorgenPrimdahl

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16.00-17.45	Session Habitat fragmentation and landscape connectivity U6-08
16.00-16.15	T0734 Estimating parameters of landscape resistance using spatial autoregressive models Erin E. Peterson ¹ , Ephraim M. Hanks ² , Mevin B. Hooten ³ , Jay M. Ver Hoef ⁴ , Marie-Josée Fortin ⁵ ¹ <i>Queensland University of Technology, 2</i> <i>Pennsylvania State University, 3</i> <i>Colorado State University, 4</i> <i>NOAA National Marine Mammal Laboratory, Alaska Fisheries Science Centre, 5</i> <i>University of Toronto</i>
16.15-16.30	T0128 Analysing gene flow in heterogeneous landscapes: why and how to use genetic graphs? Paul Savary ^{1,2,3} , Hervé Moal ³ , Stéphane Garnier ² , Jean-Christophe Foltete ¹ ¹ <i>UMR ThéMA (Université de Bourgogne-Franche-Comté – CNRS), 2</i> <i>UMR Biogéosciences (Université de Bourgogne-Franche-Comté CNRS), 3</i> <i>ARP-Astrance</i>
16.30-16.45	T0520 Habitat configuration matters when evaluating habitat-area effects on host-parasitoid interactions Kimberly With ¹ , Daniel Pavuk ² ¹ <i>Kansas State University, 2</i> <i>Bowling Green State University</i>
16.45-17.00	T0725 Contrasted responses of carabid (Coleoptera: Carabidae) communities' functional structure to local and landscape characteristics in forest fragments and hedgerows Ronan Marrec ¹ , Adèle Le Naviel ¹ , Vincent Le Roux ¹ , Guillaume Decocq ¹ ¹ <i>EDYSAN UMR 7058 CNRS-UPJV</i>
17.00-17.15	T0396 The impacts of roads on sub-Saharan African ecosystems: a systematic review Lavinia Perumal ¹ , Mark New ² , Matthias Jonas ³ , Wei Liu ³ ¹ <i>University of Cape Town, 2</i> <i>African Climate and Development Initiative, 3</i> <i>International Institute for Applied Systems Analysis</i>
17.15-17.30	T0064 Accounting for landscape connectivity uncertainties in predicting roadkills: a comparative approach between path selection functions and habitat suitability models Francesco Valerio ¹ , Filipe Carvalho ² , A. Márcia Barbosa ³ , António Mira ³ , Sara M. Santos ¹ ¹ <i>UBC – Conservation Biology Lab; Department of Biology, University of Évora, Évora, Portugal, 2</i> <i>Research Center in Biodiversity and Genetic Resources (CIBIO/InBIO), University of Porto, Campus Agrário de Vairão, 4485-661 Vairão, Portugal; Department of Zoology and Entomology, School of Biological and Environmental Sciences, University of Fort Hare, Private Bag X1314, Alice 5700, South Africa, 3</i> <i>Department of Biology, University of Évora, Évora - Portugal</i>
17.30-17.45	T0270 Contribution of functional connectivity to fragment occupancy by carnivores in a Mediterranean agroecosystem Bruno Suárez de Tangil ¹ , Alejandro Rodríguez ¹ ¹ <i>Estación Biológica de Doñana - CSIC</i>

Tuesday, 2 July 2019	
16.00-17.30	

	Session Urban forestry Room: U6-09
16.00-16.15	T0017 The cooling and ventilation effects of trees configuration in residential area in central China Li Zhang ¹ ¹ <i>Huazhong Agricultural University</i>
16.15-16.30	T0134 Interannual Variation of Phenological Seasons in Beijing Demonstrates the Effect of Climate Change on Urban Vegetation Xiaoyi Xing ¹ , Peiyao Hao ¹ , Li Dong ¹ ¹ <i>School of Landscape Architecture, Beijing Forestry University</i>
16.30-16.45	T0209 Strategy of Conserving Beijing's Imperial Garden Group as Urban National Park Tianxin Zhang ¹ ¹ <i>Peking University</i>
16.45-17.00	T0696 Growth of two street tree species in Kyoto City, Japan Tasuku Shoda ¹ , Junichi Imanishi ² , Shozo Shibata ³ ¹ <i>Graduate School of Agriculture, Kyoto University,</i> ² <i>Graduate School of Life and Environmental Sciences, Osaka Prefecture University,</i> ³ <i>Graduate School of Global Environmental Studies, Kyoto University</i>
17.00-17.15	T0646 Influence of legislation regulations on the number of trees cut on private possessions in a city. Racibórz case study. Patrycja Przewoźna ^{1,2} , Piotr Chmielewski ^{3,1} , Karolina Zięba-Kulawik ^{4,1} , Paweł Hawryło ⁴ , Adam Ingłot ^{5,1} , Piotr Wężyk ^{4,1} ¹ <i>Institute of Sociology, Faculty of Social Sciences Adam Mickiewicz University in Poznan,</i> ² <i>Institute of Geoecology and Geoinformation Adam Mickiewicz University in Poznan,</i> ³ <i>Faculty of Artes Liberales University of Warsaw,</i> ⁴ <i>Institute of Forest Resources Management, Faculty of Forestry University of Agriculture in Krakow,</i> ⁵ <i>Faculty of Civil and Environmental Engineering Gdansk University of Technology Gdansk, Poland</i>
17.15-17.30	T0076 Application of 3D ultrasonic tomography for tree risk assessment and wood evaluation Michele Puxeddu, Silvana Fais ¹ , Francesco Cuccuru ¹ , Nicola Cau ¹ ¹ <i>Dipartimento di Ingegneria Civile, Ambientale e Architettura (DICAAR), Università di Cagliari</i>

Tuesday, 2 July 2019

16.00-17.15	Symposium 65 - Innovating teaching and learning landscape ecology to address the challenges of the Anthropocene Room: U6 - 10 Session Organisers: Veerle Van Eetvelde ¹ , Simona Grădinaru ² , Wenche Dramstad ³ , Werner Rolf ⁴ , Ileana Stupariu ² ¹ <i>University of Ghent, Department of Geography, Landscape Research Unit,</i> ² <i>University of Bucharest,</i> ³ <i>NIBIO,</i> ⁴ <i>Chair for Strategic Landscape Planning and Management, Technical University of Munich</i>
16.00-16.05	T0337 Interdisciplinary training through a distributed graduate course: DGS Landscape Genetics Helene Wagner ¹ , Melanie Murphy ² , Lisette Waits ³ ¹ <i>University of Toronto,</i> ² <i>University of Wyoming,</i> ³ <i>University of Idaho</i>
16.05-16.10	T8896 Growing roots: using data to connect people to the trees in their communities Emily Okallau ¹ ¹ <i>Chicago Region Trees Initiative</i>
16.10-16.25	T0025 LIFE "Sic2Sic - In bici attraverso la Rete Natura 2000 italiana" – creative writing in primary schools to increase knowledge on the importance and role of the Natura 2000 Network Matteo Lener ¹ , Maria Cecilia Natalia ¹ , Paola Vinesi ² ¹ <i>Italian Institute for Environmental Protection and Research (ISPRA - Istituto Superiore per la Protezione e la Ricerca Ambientale),</i> ² <i>Ares 2.0</i>
16.25-16.40	T0683 Experiencing ecosystem services in the landscape Ulrike Tappeiner ^{1,2} , Johannes Rüdiger ¹ , Sarah Kerle ¹ ¹ <i>University of Innsbruck, Department of Ecology,</i> ² <i>Eurac Research, Institute for Alpine Environment</i>
16.40-16.55	T0969 Learning landscape ecology in the landscape: Educative tools in the context of a landscape observatory Maria da Graça Saraiva Saraiva ¹ , Isabel Loupa-Ramos ² , Veerle Van Eetvelde ³ ¹ <i>CIAUD/University of Lisbon,</i> ² <i>IST/University of Lisbon,</i> ³ <i>University of Ghent, Department of Geography</i>
16.45-17.15	Discussion

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16.00-16.30	<p>Symposium 14 - Linking natural and anthropogenic forces: landscape pattern and processes in global urbanized deltas and lowlands</p> <p>Room: U6 - 18</p> <p>Session Organisers: Zhifeng Wu¹, Paolo Tarolli², Xiuzhen Li³</p> <p>¹Guangzhou University, ²Padova University, ³East China Normal University</p>
16.00-16.15	<p>T8795 Urban transformation of river landscapes in mainland China over the past 60 years</p> <p>Xiankun Yang¹ ¹Guangzhou University</p>
16.15-16.20	<p>T0107 Island ecosystem management based on ecological vulnerability simulation and prediction: a case study of Zhujiadian Island</p> <p>Zuolun Xie¹, Xiuzhen Li¹, Shenliang Chen¹ ¹State Key Laboratory of Estuarine and Coastal Research, East China Normal University</p>
16.20-16.25	<p>T0313 Analysis of Urban Residential Density Based on Low Altitude UAV Tilt Photogrammetry</p> <p>Renbo Luo¹, Wei Wu¹, Zhifeng Wu¹ ¹School of Geographical Sciences, Guangzhou University</p>
16.25-16.30	<p>T0316 Characterizing the impact of urban morphology heterogeneity on land surface temperature in Guangzhou, China</p> <p>Guanhua Guo¹, Zhifeng Wu¹ ¹Guangzhou University</p>

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16.00-17.20	<p>Symposium 39 - The design of the contemporary cities through a green and blue infrastructure for Ecosystem services provision</p> <p>Room: U6 – 1A</p> <p>Session Organisers: Silvia Ronchi¹, Andrea Arcidiacono¹, Angela Colucci²</p> <p>¹Department of Architecture and Urban Studies (DASTU), Politecnico di Milano, ²RESilienceLAB / SIEP-IALE</p>
16.00-16.15	<p>T_1003 Introduction of ecological corridors in Tirana city planning</p> <p>Jamarber Malltezi¹, Sherina Dalipaj², Erdona Demiraj¹, Sulejman Sulce¹, Jamarber Malltezi¹</p> <p>¹Agricultural Univeristy of Tirana, ²Tirana Parks and Recreational Agency, Municipality of Tirana</p>
16.15-16.30	<p>T0939 Survey of the Social Environmental Designs for Ecosystem-based Adaptation and Preliminary Disaster Prevention utilizing the Green Infrastructure and Eco-DRR from the research of Kumamoto Earthquake</p> <p>Naoko Fujita¹ ¹University of Tsukuba</p>
16.30-16.45	<p>T_1004 Reshaping Urban Environments through Infrastructure Design Protocols</p> <p>Rosalea Monacella¹ ¹Harvard University</p>
16.45-17.00	<p>T_0717 The Regional Green Network: designing new landscapes in a complex region</p> <p>Luisa Pedrazzini¹ ¹Regione Lombardia</p>
17.00-17.05	<p>T0179 Air Purification by Urban Park Trees in Hong Kong</p> <p>Allen Hao Zhang¹ ¹Technological and Higher Education Institute of Hong Kong</p>
17.05-17.10	<p>T0197 Creating opportunities as a form of planning for cultural ecosystem services</p> <p>Neven Tandarić¹, Christopher D. Ives¹, Charles Watkins¹ ¹University of Nottingham</p>
17.10-17.15	<p>T0204 Cold and wet island effects of urban green spaces in cold winter in Beijing, China</p> <p>Yilun Li¹, Shuxin Fan¹, Peiyao Hao¹, Li Dong¹ ¹School of Landscape Architecture, Beijing Forestry University</p>
17.15-17.20	<p>P0198 Agent-based simulation as an innovative approach to the design of green compact cities</p> <p>Francesco Orsi¹ ¹University of Trento</p>

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16.00-16.45	<p>Symposium 56 - Biodiversity spillover in fragmented landscapes and effects on ecosystem services provision and regulation</p> <p>Room: U6 – 1B</p> <p>Session Organisers: Andrea Larissa Boesing¹, Paula Ribeiro Prist¹</p> <p>¹<i>Department of Ecology, University of São Paulo</i></p>
16.00-16.15	<p>T0546 Spillover of pollinator diversity and services from forest to oil palm in Jambi, Indonesia</p> <p>Kevin Li¹, Ingo Grass¹, Jonathan Fung², Fuad Nurdiansyah³, Damayanti Buchori⁴, Teja Tscharntke¹</p> <p>¹<i>University of Goettingen</i>, ²<i>University of Bremen</i>, ³<i>University of Jambi</i>, ⁴<i>Bogor Agricultural University</i></p>
16.15-16.30	<p>T0866 Landscape structure affects pollinator and natural enemy spillover: a meta-analysis</p> <p>Carolina Montealegre-Talero¹, Andrea Larissa Boesing¹, Jean Paul Metzger¹</p> <p>¹<i>Department of Ecology, University of São Paulo</i></p>
16.30-16.45	<p>T_8915 Stepping into the forest: the potential for cross-habitat spillover of an emerging anthrax pathogen in West Africa</p> <p>Lindsay Campbell¹, Daniel Romero-Alvarez², A. Townsend Peterson²</p> <p>¹<i>Florida Medical Entomology Laboratory, Dept of Entomology & Nematology, IFAS, University of Florida</i>, ²<i>Biodiversity Institute, Dept of Ecology and Evolutionary Biology, University of Kansas</i></p>

Tuesday, 2 July 2019

16.00-17.30	<p>Session Anthropogenic landscapes</p> <p>Room: U6 – 1D</p>
16.00-16.15	<p>T0804 Green seawall: challenge to conversion from gray to green infrastructure.</p> <p>Hajime Matsushima¹, Akira Suzuki², Yoshihiko Hirabuki³, Kouji Kimura⁴, Xiangmei Zhong⁵, Akinori Fuji⁶</p> <p>¹<i>Research Faculty of Agriculture, Hokkaido University</i>, ²<i>Kita-no-satohama Hana-no-kakehashi Network</i>, ³<i>Faculty of Liberal Arts, Tohoku Gakuin University</i>, ⁴<i>Snow Brand Seed Co., Ltd</i>, ⁵<i>Graduate school of Agriculture, Hokkaido University</i>, ⁶<i>Board of Education, Chatan town</i></p>
16.15-16.30	<p>T0661 Ecological connectivity along the Tiber River: a GIS based study linking land use changes and habitats availability</p> <p>Silvia Pili¹, Giampiero Mazzocchi¹, Davide Marino²</p> <p>¹<i>Sapienza University</i>, ²<i>Università Molise</i></p>
16.30-16.45	<p>T_7777 Remote sensing in a landscape planning perspective: a multi-scale analysis for mismatches between regulating and provisioning Ecosystem Services</p> <p>Federica Marando¹, Alessandro Sebastiani¹, Fausto Manes¹</p> <p>¹<i>Sapienza University of Rome</i></p>
16.45-17.00	<p>T0348 Modeling of Landscape Pattern-Process Interaction for Ankara City</p> <p>Serhat Cengiz¹, Serhat Cengiz¹, Dicle Oguz², Sevgi Gormus¹</p> <p>¹<i>Inonu University College of Fine Art and Design Landscape Architecture Department</i>, ²<i>Ankara University</i></p>
17.00-17.15	<p>T0649 Technomass: building a bridge between urban ecology, metabolism and planning</p> <p>Luis Inostroza¹</p> <p>¹<i>Universidad Autonoma de Chile</i></p>
17.15 – 17.30	<p>T0264 Mediterranean riparian forests as carbon bankers</p> <p>M Rosário Fernandes¹, Francisca C. Aguiar¹, Alexandra Correia¹, M João Martins¹, Nuno Rico², José M. C. Pereira¹</p> <p>¹<i>Forest Research Centre (CEF), School of Agriculture, University of Lisbon</i>, ²<i>The Navigator Company</i></p>

Tuesday, 2 July 2019

16.00-16.45	<p>Symposium 67 - Towards visionary peri-urban landscapes? Environmental governance mixes for sustainable peri-urbanization.</p> <p>Room: U6 – 1E</p> <p>Session Organisers: Marcin Spyra¹, Christine Fürst¹, Tereza Aubrechtova², Alina Schürmann¹</p> <p>¹<i>Marthin Luther University Halle – Wittenberg</i>, ²<i>University of Ostrava</i></p>
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16.00-16.15	P_8196 Long-term land use changes driven by urbanization and their environmental influences Zita Izakovičová ¹ , Peter Mederly ² , František Petrovič ^{2,1} <i>Institute of Landscape Ecology, Slovak Academy of Sciences, ²Department of Ecology and Environmental Sciences, Constantine the Philosopher University, Nitra</i>
16.15-16.30	P0072 Spatial modeling of environmental risk of shallow groundwater in a typical urbanizing area, northeast China Jianbing Wei ¹ , Shiqian Gao ¹ , Quanguo Cheng ^{1,1} <i>College of Environment, Shenyang University, Key Laboratory of Eco-restoration of Regional Contaminated Environment, MOE</i>
16.30-16.35	T0929 Types of suburban neighbourhoods in Warsaw agglomeration in the perspective of spatial and social integrity Paweł Sudra ¹ , Dorota Mantey ^{2,1} <i>National Institute for Spatial Policy and Housing (KIPPiM), ²University of Warsaw</i>
16.35-16.40	T0357 Neglected urban open spaces as a potential cultural ecosystem services provisioning areas in peri-urban context Marcin Spyra ¹ , Tereza Aubrechtova ² , Luis Inostroza ³ , Petr Krpec ^{2,1} <i>Martin-Luther University Halle-Wittenberg, ²University of Ostrava, ³Ruhr-University Bochum</i>
16.40-16.45	T0035 Linking land use pattern to soil antibiotic contamination in a peri-urban area Fangkai Zhao ¹ , Lei Yang ¹ , Liding Chen ¹ , Long Sun ¹ , Shoujuan Li ^{1,1} <i>Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences</i>

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- (5) Landscape and climate change interactions (particularly landscape-based mitigation and adaptation approaches);
- (6) Landscape sustainability and resilience;
- (7) Ecological impacts and mechanisms of land use/land cover change;
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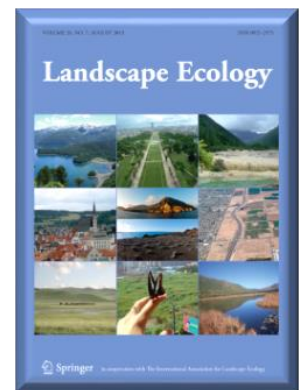
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Thursday, 4th July 2019

08.30-10.00	<p style="text-align: center;">PLENARY SESSION</p> <p style="text-align: center;">Round table discussion on the impacts of landscape ecology for societies today and in the future,</p> <p style="text-align: center;">Room: Aula Magna</p> <p style="text-align: center;">Cristine Fürst (chair and moderator)</p> <p style="text-align: center;">Yazidhi Bamatuze (Secretary general IALE Africa), Henry Bulley (IALE Africa), Li Li (IALE International), Ramesh Krishnamurthy (India), An Thinh Nguyen (Vietnam), Hans Bruyninckx (Europe), Veerle van Eetvelde (Europe), Felix Kienast (Switzerland), Emilio Padoa-Schioppa (Italy), Pinar Pamukshu (Turkey), Luis Inostroza (Chile); Rob Scheller (North America), Janet Franklin (North America), Sima Fakheran (Iran), Ksenia Merekalova (Russia)</p>
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Thursday, 4th July 2019

10.30-12.30	<p style="text-align: center;">Symposium 19 - Promoting Ecosystem Services for Sustainable Development Goals</p> <p style="text-align: center;">Room: Aula Magna</p> <p style="text-align: center;">Session Organisers: Wenwu Zhao¹, Yihe Lu², Manish Kumar Goyal⁵, Francesco Cherubini³, Walter Musakwa⁴, Richard Ross Shaker⁶, Stefani Daryanto⁷</p> <p style="text-align: center;"><i>¹Faculty of Geographical Science, Beijing Normal University, ²Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, ³Norwegian University of Science and Technology, ⁴University of Johannesburg, ⁵Indian Institute of Technology Indore, ⁶Ryerson University, ⁷Indiana University – Purdue University Indianapolis</i></p>
10.30-10.45	<p>T0230 Impacts of land management and land cover change on albedo - a global assessment</p> <p>Cristina Maria Iordan¹, Bo Huang¹, Xiangping Hu¹, Otavio Cavalett¹, Helene Muri¹, Francesco Cherubini¹ <i>¹Norwegian University of Science and Technology</i></p>
10.45-11.00	<p>T0873 The path towards MAES Estonia</p> <p>Miguel Villoslada¹, Kalev Sepp¹ <i>¹Estonian University of Life Sciences</i></p>
11.00-11.15	<p>T0893 Detecting critical scales and fragmentation thresholds for chimpanzee habitat connectivity in Liberia</p> <p>Amy Frazier¹, Catherine Hudson¹, Miroslav Honzak², Keith Gaddis³, Celio Helder Sousa³ <i>¹Arizona State University ²Conservation International ³National Aeronautics and Space Administration</i></p>
11.15-11.30	<p>T0991 Linking microbial structure to ecosystem function for improved prediction of ecosystem processes</p> <p>Kusum Naithani¹ <i>¹University of Arkansas</i></p>
11.30-11.45	<p>T0992 Worldwide human-wildlife conflicts: insights on why parrots forage in agricultural lands and its outcomes</p> <p>Jomar Magalhaes Barbosa¹, Miguel Ángel Romero Gil¹, Fernando Hiraldo¹, José Luis Tella¹ <i>¹Department of Conservation Biology, Estación Biológica de Doñana, C.S.I.C.</i></p>
11.45-12.00	<p>T1012 Niche Evolution of China's Provincial Social–Economic–Natural Complex Ecosystems, 2005–2015</p> <p>Shuan-ning Zheng¹, Yuan-tong Jiang¹, Chun-yuan Zhao¹, Ye-ning Wang¹ <i>¹Institute of Urban Environment, Chinese Academy of Sciences</i></p>
12.00-12.15	<p>T8783 The Ecosystem Services of wetlands: a diachronic analysis of landscape changes in six Italian Ramsar Sites</p> <p>Serena D'Ambrogio¹, Riccardo Santolini², Francesca Assennato¹, Alice Cavalli³, Susanna D'Antoni¹, Michele Munafò (ISPRA), Ines Marinosci¹, Giovanni Pasini⁴, Giovanna Panza⁴, Elisa Morri² <i>¹ISPRA ²University of Urbino ³IUSS Pavia, ⁴CREN</i></p>

Thursday, 4 th July 2019	
10.30-12.30	<p align="center">Symposium 30 - Mapping and monitoring farmland biodiversity and ecosystem services</p> <p align="center">Room: U6-02</p> <p align="center">Session Organisers: Felix Herzog¹, Yunhui Liu², Majid Iravani³, Tian Xiang Yue⁴</p> <p align="center">¹Agroscope ²China Agricultural University ³University of Alberta / Alberta Biodiversity Monitoring Institute ⁴Chinese Academy of Sciences</p>
10.30-10.35	<p>T0727 Beyond the stand: Reviewing landscape fragmentation measures and dynamics on biodiversity and ecosystem services in Southeast Asia</p> <p>Michaela Lo¹, Yves Laumonier¹ ¹CIFOR</p>
10.35-10.40	<p>T0594 Beyond agricultural production: using remote sensing to map farmlands' biodiversity</p> <p>Edyta Wozniak¹, Wlodek Kofman^{1,2}, Sebastian Aleksandrowicz¹, Marcin Rybicki¹, Stanislaw Lewiński¹, Artur Łączyński³ ¹Space Research Centre of The Polish Academy of Sciences ²Institut de Planetologie et d'Astrophysique de Grenoble, CNRS/UGA ³Central Statistical Office of Poland</p>
10.40-10.45	<p>T0307 Similarities of carabid assemblages in neighboring cereal and grassland fields in three intensive agricultural areas</p> <p>Damien Massaloux¹, Benoit Sarrazin¹, Anthony Roume¹, Vincent Tolon¹, Alexander Wezel¹ ¹SARA-Lyon</p>
10.45-11.00	<p>T0234 Landscape effects on crop pest biocontrol are modulated by local pesticide use.</p> <p>Sandrine Petit¹ ¹INRA</p>
11.00-11.15	<p>T0936 Landscape agronomy: bibliometric insights on key issues and background concepts of a conceptual framework</p> <p>Davide Rizzo¹, Elisa Marraccini², Marc Benoît³, Claudine Thenail⁴, Sylvie Lardon⁵ ¹Chair in Agricultural Machinery and New Technologies, UniLaSalle ²InTerACT UP 2018.C102, UniLaSalle ³INRA ⁴INRA, UMR 0980 BAGAP "Biodiversité AGroécologie et Aménagement du Paysage" ⁵INRA et AgroParisTech, UMR Territoires</p>
11:15-11.30	<p>T0106 Could farming practices subsidized by the European agricultural policy lead to a better nature condition and fight against climate change?</p> <p>Marta Perez-Soba¹ ¹Joint Research Centre, European Commission</p>
11.30-11.45	<p>T0601 Multi-dimensional Assessment of Agrarian Cultural Landscape Values: A Case Study of Duman Agricultural Landscape of Barangay Sta. Monica</p> <p>Joshua Cunanan¹, Nappy Navarra² ¹De la Salle - College of St. Benilde, School of Design and Arts ²University of the Philippines - Dlliman</p>
11.45-12.00	<p>T0335 Costs-effectiveness of wildlife-friendly practices for multiple taxa: a landscape scale approach</p> <p>Hila Segre¹, Yohay Carmel¹, Assaf Shwartz¹ ¹Technion - Israel Institute of Technology</p>
12.00-12.05	<p>T0834 Contrasting classification models in coastal landscapes: studying Golfo de Arauco, at south-central Chile</p> <p>Vannia Ruiz¹, Juan Munizaga², Fernando Ureta² ¹Pontificia Universidad Católica de Chile ²Universidad de Concepción</p>

Thursday, 4 th July 2019	
10.30-12.30	<p align="center">Symposium 42 – Landscape monitoring: best practices and new developments for an integrated assessment of landscape change</p>

	<p align="center">Room: U6-03</p> <p align="center">Symposium organizers: Flurina Wartmann¹, Felix Kienast¹, Marcel Hunziker¹ ¹<i>Federal Research Institute for Forest, Snow and Landscape (WSL)</i></p>
10.30-10.45	T0075 - A review of integrated approaches for landscape monitoring Felix Kienast, <i>Swiss Federal Research Institute for Forest, Snow and Landscape</i>
10.45-11.00	T0231 An integrated monitoring of landscape perception Flurina M. Wartmann ¹ , Marcel Hunziker ¹ , Felix Kienast ¹ ¹ <i>Swiss Federal Research Institute for Forest, Snow and Landscape (WSL)</i>
11.00-11.15	T0765 Monitoring mountain summer farming landscapes in Norway through an area frame survey Sebastian Eiter ¹ , Geir-Harald Strand ¹ , Wendy Fjellstad ¹ , Kari Stensgaard ¹ ¹ <i>NIBIO - Norwegian Institute of Bioeconomy Research</i>
11.15-11.30	T0444 Monitoring the visual landscape quality based on farm census data Beatrice Schüpbach ¹ , Andreas Roesch ¹ , Thomas Walter ¹ , Erich Szerencsits ¹ ¹ <i>Agroscope</i>
11.30-11.45	T0817 Integrating wilderness qualities into landscape monitoring Brenda Maria Zoderer ¹ , Erich Tasser ² , Steve Carver ³ , Ulrike Tappeiner ¹ ¹ <i>Department of Ecology, University of Innsbruck</i> ² <i>Institute for Alpine Environment, Eurac Research</i> ³ <i>School of Geography, University of Leeds</i>
11.45-12.00	P_0227 Survey on community livelihoods and landscape change along the Nzhelele and Levubu river catchments in the Limpopo Province, South Africa Walter Musakwa ¹ , Shuai Wang ² , Fangli Wei ² , Lerato Malapane ³ , Eric Mashimbye ⁴ , Sydney Mavengahama ⁵ ¹ <i>Department of Town and Regional Planning, University of Johannesburg</i> ² <i>Beijing Normal University</i> ³ <i>University of Johannesburg</i> ⁴ <i>Stellenbosch University</i> ⁵ <i>North West University</i>
12.00-12.15	T0884 Assessing the "Landscape quality" and the Cultural Ecosystem Services through quantitative and qualitative indicators: an overview of the literature Lionella Scazzosi ¹ , Raffaella Laviscio ¹ , Paola Branduini ¹ , Andrea L'Erario ² ¹ <i>PaRID – Research and International Documentation for Landscape, Dept. of Architecture, Built environment and Construction engineering (DABC), Politecnico di Milano, Italy</i> ² <i>PhD student in Preservation of the Architectural Heritage, Dept. of Architecture and Urban Studies (DASTU), Politecnico di Milano, Italy</i>
12.15-12.30	T0219 Landscape monitoring and performance evaluation to establish learning landscapes Enrico Celio ¹ , Sven-Erik Rabe ¹ ¹ <i>ETH Zürich - IRL - PLUS</i>

Thursday, 4th July 2019	
10.30-12.45	<p align="center">Symposium 59 - Understanding the capacity of Landscape connectivity and ecosystem integrity to supply multiple ecosystem services: insights into sustainable landscapes</p> <p align="center">Room: Aula Martini (U6-04)</p> <p align="center">Session Organisers: Luque Sandra¹, Le Louarn Marine¹, van Dijk Jiska² ¹<i>IRSTEA National Research Institute of Science and Technology for Environment and Agriculture</i> ²<i>NINA</i></p>
10.30-10.45	Introduction to Symposium 59
10.45-11.00	T0903 A Landscape level approach of green infrastructure multifunctionality: from species conservation to ecosystem services producing areas Philip Roche ^{1,2} , C. Sylvie Campagne ^{1,3} , Stien Heremans ⁴ , Geert De Blust ⁴ , Jiska Van Dijk ⁵ ¹ <i>IRSTEA</i> ² <i>UMR RECOVER</i> ³ <i>Institute of Physical Geography & Landscape Ecology; Leibniz Universität Hannover</i> ⁴ <i>INBO</i> ⁵ <i>NINA</i>

11.00-11.15	T0245 Combining connectivity and habitat suitability models as decision-making tools: a case study in the south of France Marine Le Louarn ¹ , Maxime Lenormand ¹ , Sandra Luque ^{1,1} IRSTEA
11.15-11.30	T0362 How forest edges contribute to landscape connectivity? Deconchat Marc ¹ , Barbaro Luc ¹ , Brin Antoine ² , Calatayud François ¹ ¹ INRA/DYNAFOR ² EIPurpan/DYNAFOR
11.30-11.45	T0247 Quantifying simultaneously habitat loss and fragmentation for mobile species in continuous landscapes through Habitat Functionality - applied to Norwegian reindeer Bram Van Moorter ¹ , Ilkka Kivimäki ² , Manuela Panzacchi ¹ , Santiago Saura ³ , Marco Saerens ⁴ ¹ Norwegian Institute for Nature Research ² Aalto University ³ Joint Research Centre, European Commission ⁴ Université catholique de Louvain
11.45-12.00	T0177 Planning tools for landscape connectivity and threatened species conservation in a forestry context Dydee Mann ^{1,1} Forest Practices Authority
12.00-12.15	T0324 Global trends in protected area connectivity from 2010 to 2018 Santiago Saura ¹ , Bastian Bertzky ¹ , Lucy Bastin ¹ , Luca Battistella ¹ , Andrea Mandrici ¹ , Gregoire Dubois ^{1,1} European Commission, Joint Research Centre
12.15-12.20	T0385 A trait-based approach to unravel the effects of habitat connectivity and habitat amount on weeds Léa Uroy ^{1,2} , Cendrine Mony ³ , Aude Ernoul ¹ , Audrey Alignier ^{2,1} University of Rennes, UMR CNRS 6553 Ecobio, 35000, Rennes, France ² INRA of Rennes, UMR INRA 0980 Bagap, 35000, Rennes, France.
12.20-12.25	T0752 Modelling the connectivity of the coastal social-ecological networks subject to oceanic hazards Antoine Collin ¹ , Dorothée James ¹ , Joachim Claudet ^{1,1} EPHE, PSL Université Paris, CNRS LETG
12.25-12.30	T0271 Effects of wooded networks on biological control: synergy or antagonism? Florence Hecq ¹ , Charlotte Francis ¹ , Thierry Hance ^{2,1} Earth and Life Institute, Université Catholique de Louvain ² Université catholique de Louvain
12.30-12.35	P0106 Wetlands connectivity matters for maintenance of amphibian populations in different wetland network configurations Patrizia Zamberletti ^{1,2} , Marta Zaffaroni ^{1,3} , Francesco Accatino ^{1,4} , Irena Creed ⁵ , Carlo De Michele ⁶ ¹ INRA ² BioSP ³ PSH ⁴ UMR SADAPT ⁵ School of Environment and Sustainability, University of Saskatchewan ⁶ Department of Civil and Environmental Engineering, Politecnico di Milano
12.35-12.40	T0464 Effects of network conductivity of linear landscape elements on arthropod and plant communities in agricultural landscapes modelled with circuit theory Jan Thiele ¹ , Jens Schirmel ² , Sascha Buchholz ^{3,1} Thünen Institute of Biodiversity ² University of Koblenz-Landau, Institute for Environmental Science ³ Technische Universität Berlin, Department of Ecology
12.40-12.45	T0373 Study on ecological route selection of subtropical mountain expressway in China. Zhaoming Wang ¹ , Dong Zhang ¹ , Shegang Shao ¹ , Minmin Yuan ¹ , Dong Ni ¹ , Chao Wang ^{2,1} Research Institute of Highway, Ministry of Transport, China. ² Guangdong traffic construction co. LTD

Thursday, 4 th July 2019	
10.30-12.30	<p align="center">Symposium 18 Temporal dynamics in landscape science: New applications and opportunities in social-ecological systems</p> <p align="center">Room: U6-05</p> <p>Session Organisers: Alexander Killion¹, Mario Torralba², Patrick Behrer³, Jessica Gilbert⁴, Adam Dixon^{5,1}The National Socio-Environmental Synthesis Center ²University of Kassel ³Harvard University ⁴Texas A&M University ⁵University of Maryland Baltimore County</p>
10.30-10.45	Introduction to Symposium 18

10.45-11.00	T0049 Designing spatiotemporal multifunctional landscapes to support dynamic wildlife conservation Alexander Killion ¹ , Adam Dixon ² , Jessica Gilbert ³ , Mario Torralba ⁴ , Patrick Greiner ⁵ , Patrick Behrer ⁶ ¹ Boise State University ² University of Maryland Baltimore County ³ Texas A&M University ⁴ University of Kassel ⁵ Vanderbilt University ⁶ Harvard University
11.00-11.15	T0010 Examining socio-ecological connectivity through urban garden networks across varying cityscapes Monika Egerer ¹ , Nakisha Fouch ² , Elsa Anderson ³ , Mysha Clarke ⁴ , Melissa Davidson ⁵ ¹ Environmental Studies, University of California, Santa Cruz ² Dept. Wildlife and Fisheries Biology, Clemson University ³ Dept. of Biological Sciences, University of Illinois at Chicago ⁴ Geography and the Environment, Villanova University ⁵ School of Sustainability, Arizona State University
11.15-11.30	T0206 Spatiotemporal overlap of pesticide use and species richness in California, USA Ashley Larsen ¹ , Andrew MacDonald ² ¹ Bren School of Environmental Science & Management, UC Santa Barbara ² Earth Research Institute, UC Santa Barbara
11.30-11.45	T0669 Socio-ecological systems: Identification and spatial mapping in the Central Himalayas Praveen Kumar ¹ , P.K. Joshi ¹ , Christine Fürst ² ¹ School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India ² Institut für Geowissenschaften und Geographie, Martin Luther Universität Halle, Halle, Germany
11.45-12.00	T0862 Land systems on the move: A new spatiotemporal data-driven approach on land system modelling applied to the Mediterranean basin. Johanna Fusco ¹ ¹ Institut Méditerranéen de Biodiversité et d'Ecologie (IMBE) / Mediterranean Institute for Biodiversity and Ecology (Aix-en-Provence, FR)
12.00-12.15	T_0974 The Connected Nature of Landscape Transformation: A case study of Asian Carp Jordan Besek ¹ ¹ SUNY at Buffalo
12.15-12.30	T0641 The tragedy of the parks: lessons for protecting nature in post-conflict Colombia Nicola Clerici ¹ , Dolors Armenteras ² , Peter Kareiva ³ , Rodrigo Botero ⁴ , Juan Pablo Ramírez Delgado ⁵ , Duan Biggs ⁶ ¹ Biology Program, Faculty of Natural Sciences and Mathematics Universidad del Rosario ² Ecología del Paisaje y Modelación de Ecosistemas-ECOLMOD, Departamento de Biología, Universidad Nacional de Colombia ³ Institute of the Environment and Sustainability, University of California ⁴ Fundación para la Conservación y el Desarrollo Sostenible ⁵ Natural Resource and Environmental Studies Institute, University of Northern British Columbia ⁶ Environmental Futures Research Institute. Griffith University

Thursday, 4th July 2019	
10.30-12.30	<p align="center">Symposium 74 Biocultural Landscapes During the Anthropocene Room: U6-06 Session Organisers: Inocencio Jr. Buot¹, Regan Leonardus Kaswanto² ¹University of the Philippines Los Baños ²Bogor Agricultural University</p>
10.30-10.45	Introduction to Symposium 18
10.45-11.00	T0123 Water and Nutrient Dynamics in Muyong Forest and Rice Terraces (muyong-payoh system) in Banaue, Philippines Damasa Macandog ¹ , Milben Bragais ¹ , Jennifer Edrial ¹ , Marc Brian Manlubatan ¹ , Marc Anthony Rabena ¹ , Ma. Bernice Carmela Liquigan ¹ ¹ University of the Philippines Los Baños
11.00-11.15	T0036 Identification of the dynamics of change in the historical- ecological characteristics of the rural territory in the Northern Apennines: Val Tidone and Val di Nizza in the Oltrepò Pavese Anita Calegari
11.15-11.30	T0309 Biocultural landscape of Carpinus tschonoskii var. torta, a national natural monument in Japan Nobukazu Nakagoshi ¹ ¹ Hiroshima University
11.30-11.45	T0314 Pattern of vegetation structure along elevational gradients in a tropical biocultural landscape

	Inocencio E Buot Jr ^{1,2} ¹ <i>University of the Philippines Los Banos</i> ² <i>University of the Philippines Open University</i>
11.45-12.00	T0015 Fragmentation drivers in Polillo Islands key biodiversity area, Polillo Quezon, Philippines Leajim Villanueva ^{1,2} , Carmelita Rebanco ^{1,2} , Dante Gideon Vergara ^{1,2} , Eleno Peralta ^{1,3} ¹ <i>UPLB</i> ² <i>SESAM</i> ³ <i>CNFR</i>
12.00-12.15	T0305 An Assessment of a Biocultural Landscape using Community Wellbeing Approaches Merites Merida Buot ¹ , Virginia R. Cardenas, Ma. Zenia Dulce, Rona Montecalbo-Ignacio, Bertito M. Laganson, Rumela C. Bullecer ¹ <i>Department of Human Kinetics, College of Arts and Sciences, University of the Philippines Los Banos</i>
12.15-12.30	T0736 Vegetation stand structure analysis using quadrat method and auto-cad in a tropical forest ecosystem in Banaue, Ifugao, Northern Luzon, Philippines Mark Anthony Rabena ^{1,2} , Damasa Macandog ¹ ¹ <i>Institute of Biological Sciences, College of Arts and Sciences, University of the Philippines Los Banos</i> ² <i>Faculty of Management and Development Studies, University of the Philippines Open University</i>

Thursday, 4th July 2019

10.30-12.30	<p align="center">Symposium 49 Challenges for subterranean landscape conservation in the world's karst regions</p> <p align="center">Room: U6-07</p> <p align="center">Session Organisers Claudia Canedoli¹, Chris Groves², Emilio Padoa-Schioppa¹ ¹<i>Università Milano Bicocca</i> ²<i>Crawford Hydrology Laboratory</i></p>
10.30-10.45	Introduction to Symposium 49
11.00-11.15	T0111 Diversity of aquatic cave animals and their conservation status in China Yahui Zhao ¹ ¹ <i>Institute of Zoology, Chinese Academy of Sciences</i>
11.15-11.30	T0525 Protecting the World's Longest Cave: Should We Think About Caves or Karst Landscapes? Chris Groves ¹ , Rickard S. Toomey ² , Rick Olson ² , Kurt Helf ² , Barclay Trimble ² ¹ <i>Crawford Hydrology Laboratory, Department of Geography and Geology, Western Kentucky University</i> ² <i>Mammoth Cave National Park</i>
11.30-11.45	T0695 Vulnerable invertebrates in shallow subterranean habitats of Washington, D.C. Jenna Keany ¹ , David Culver ¹ , Mikaila Milton ² ¹ <i>American University Department of Environmental Science</i> ² <i>National Park Service National Capital Parks East</i>
11.45-12.00	T0849 Landscape conservation of karst regions Claudia Canedoli ¹ , Emilio Padoa-Schioppa ¹ ¹ <i>Department of earth and environmental sciences University of Milano-Bicocca</i>

Thursday, 4th July 2019

10.30-12.30	<p align="center">Symposium 40 Challenge and opportunity in the creation of bee landscapes</p> <p align="center">Room: U6-08</p> <p align="center">Session Organisers: Sabine van Rooij¹, Eveliene Steingrover¹, Arjen de Groot¹, Lawrence Jones-Walters¹ ¹<i>Wageningen Environmental Research</i></p>
10.30-10.45	Introduction to Symposium 40
10.45-11.00	T0811 'Bee landscapes' as an effective strategy to counter the decline of pollinating insects; an example in the Netherlands Steingrover Eveliene ¹ , van Rooij Sabine ¹ , Pleijte Marcel ¹ ¹ <i>Wageningen Environmental Research</i>
11.00-11.15	T0083 From potential to practical: Conserving pollinators in urban public greenspace

	Mary Gardiner ¹ , Katherin Turo ¹ ¹ <i>The Ohio State University</i>
11.15-11.30	T0863 How to use Citizen Science to promote action on wild pollinators Nieke Knoben ¹ ¹ <i>Naturalis Biodiversity Center</i>
11.30-11.45	T0854 Restoring and reconnecting (bumble)bee habitat in an agricultural landscape in the Netherlands G. Arjen de Groot ¹ , David Kleijn ² ¹ <i>Wageningen Environmental Research</i> ² <i>Plant Ecology and Nature Conservation, Wageningen University</i>
11.45-12.00	T_8801 Using floral strips in sunflower-dominated landscapes to promote wild bees and pollination services José A. González ¹ , Violeta Hevia ¹ , Jorge Ortega ¹ , Libertad Chapinal ¹ , Aura Pérez-Morín ¹ ¹ <i>Social-ecological Systems Lab, Universidad Autónoma de Madrid</i>
12.00-12.15	T0429 Effect of landscape structure on pollination service by the native honeybee (Apis cerana) to hyuganatsu (Citrus tamurana) in Aya UNESCO Biosphere Reserve Yasushi Mitsuda ¹ ¹ <i>University of Miyazaki</i>
12.15-12.30	T0808 How to optimise the creation of beescapes through a EU wide mapping approach Carlo Rega ¹ , Maria Luisa Paracchini ¹ ¹ <i>European Commission - Joint Research Centre</i>

Thursday, 4th July 2019	
10.30-12.30	<p align="center">Symposium 26 Application of novel remote sensing data and techniques to habitat and biological assessments</p> <p align="center">Room: U6-09</p> <p align="center">Session Organisers: Bronwyn Price¹, Christian Ginzler¹, Janine Bolliger¹</p> <p align="center">¹<i>Swiss Federal Research Institute WSL</i></p>
10.30-10.45	Introduction to Symposium 26
10.45-11.00	T_1010 Rapid Assessment Study of Typhoon Disaster in the Urban Agglomerations Along Western Taiwan Straits Region Based on Remote Sensing Data of Night Lighting Hao-wei Wang ¹ , Chun-yuan Zhao ¹ , Wan-gui Zhou ¹ , Ye-ning Wang ¹ ¹ <i>Institute of Urban Environment, Chinese Academy of Sciences</i>
11.00-11.15	T0690 Retrieving early indicators of high impact of an invasive ecosystem engineer from remote sensing data André Große-Stoltenberg ¹ , Christine Hellmann ² , Jan Thiele ³ , Christiane Werner ² , Jens Oldeland ⁴ ¹ <i>Landscape Ecology and Landscape Planning, Justus-Liebig-Universität Gießen</i> ² <i>Ecosystem Physiology, Albert-Ludwigs-Universität Freiburg</i> ³ <i>Thünen-Institut für Biodiversität</i> ⁴ <i>Biodiversity, Ecology and Evolution of Plants, Biocentre Klein Flottbek and Botanical Garden, Universität Hamburg</i>
11.15-11.30	T0275 Mapping compositional diversity in mediterranean sparse forests using sentinel-2 imagery Semiha Demirbas Caglayan ¹ , Uğur Murat Leloğlu ² , Can Bilgin ² , Achilleas Psomas ¹ , Lars Waser ¹ , Christian Ginzler ¹ ¹ <i>Swiss Federal Research Institute WSL</i> ² <i>Middle East Technical University</i>
11.30-11.45	T_8857 Surrogate Method for Biodiversity Assessment and Conservation Prioritization in the Indian Himalayan Region Ramesh Krishnamurthy ¹ , Sujata Upgupta ¹ , Arunkumar Ananthakumar ¹ , Tanvi Gaur ¹ ¹ <i>Wildlife Institute of India</i>
11.45-12.00	T0713 Landscape analysis of light pollution in Korean national parks using VIIRS DNB nighttime images Chan Yong Sung ¹ ¹ <i>Hanbat National University</i>
12.00-12.15	T0878 Tropical reservoirs as hourglasses of dam-related ecosystem changes Fritz Kleinschroth ¹ , Scott Winton ¹ , Elisa Calamita ¹ , Jaboury Ghazoul ¹ ¹ <i>ETH Zurich</i>
12.15-12.20	T0681 Automated mapping and modelling of habitat types at the national extent for Switzerland – a first prototype Bronwyn Price ¹ , Christian Ginzler ¹ ¹ <i>Swiss Federal Research Institute WSL</i>

12.20-12.25	T0087 Harnessing the use of declassified historical satellite images in land use change research – case study from Latvia-Russia border area Zigmars Rendenieks ¹ , Mihai Daniel Nita ² , Volker Christian Radeloff ³ ¹ <i>University of Latvia</i> ² <i>Transilvania University of Brasov</i> ³ <i>University of Wisconsin Madison</i>
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Thursday, 4th July 2019	
10.30-12.45	<p align="center">Symposium 24 Multiple roles for landscape ecology in future farming systems</p> <p align="center">Room: U6-10</p> <p align="center">Session Organisers: Diane Pearson¹, Richard Aspinall², Julian Gorman³</p> <p align="center">¹<i>Professor in Environmental Management, School of Agriculture and Environment, Massey University</i> ²<i>Independent scholar and honorary research fellow, James Hutton Institute</i> ³<i>Research Fellow in Natural-resources Based Livelihoods, Research Institute for the Environment and Livelihoods, Charles Darwin University</i></p>
10.30-10.45	Introduction to Symposium 24
10.45-11.00	T0168 What can landscape ecology contribute towards the challenges facing agriculture and the need for agricultural change in New Zealand? Diane Pearson ¹ ¹ <i>School of Agriculture and Environment, Massey University</i>
11.00-11.15	T0258 Beyond Margalef: Testing the links of landscape structure and energy and information flows driven by farming with biodiversity Joan Marull ¹ ¹ <i>Metropolitan Laboratory of Ecology and Territory of Barcelona. Autonomous University of Barcelona</i>
11.15-11.30	T0295 Using landscape ecology to help take a more holistic approach to agribusiness: The Kakadu Plum industry in northern Australia as a case study. Julian Gorman ¹ , Diane Pearson ² ¹ <i>Charles Darwin University</i> , ² <i>Massey University</i>
11.30-11.45	T0439 Developing a comprehensive knowledge system to support the ecological optimization of agriculture in Switzerland Erich Szerencsits ¹ , Attilio Benini ¹ ¹ <i>Agroscope</i>
11.45-12.00	T0454 Interplay of agroecology models in the study of landscape ecosystem services trade-offs Floriane Colas ¹ , Jeff Norville ¹ , Simon Labarthe ¹ , Vincent Martinet ¹ , Francesco Accatino ¹ ¹ <i>INRA</i>
12.00-12.15	T0583 Accounting for environment in sustainability assessments: measuring and modelling bioeconomic impacts across agricultural landscapes Richard Aspinall ¹ , Michele Staiano ² ¹ <i>Independent scholar, c/o James Hutton Institute</i> ² <i>Statistics Technology and Analysis of Data, Department of Industrial Engineering, University of Naples Federico II</i>
12.15-12.30	T0785 Estimating effect of farming practices on sediments and nutrients loading using SWAT model Petr Krpec ¹ , ¹ <i>University of Ostrava</i>
12.30-12.45	T0842 Sustainable soil management in arable landscapes and invertebrate prey availability to farmland birds Sofia Biffi ¹ , Les Firbank ¹ ¹ <i>University of Leeds</i>

Thursday, 4th July 2019	
10.30-12.30	<p align="center">Symposium 46 Landscape trajectories during the long Anthropocene: dialogues between ecology and archaeology</p> <p align="center">Room: U6-12</p> <p align="center">Session Organisers: Giuseppe Bazan¹, Angelo Castrorao Barba¹</p> <p align="center">¹<i>Università di Palermo</i></p>

10.30-10.45	Introduction to Symposium 46
10.45-11.00	T0011 Historical Ecology: a Robust Bridge between Archaeology and Ecology Carole Crumley ¹ ¹ <i>Swedish Agricultural University, Uppsala</i>
11.00-11.15	T0200 The transformations of the agricultural landscape between the 6th and the 1st millennium BC Leonor Peña-Chocarro ¹ , Guillem Pérez-Jordà ¹ ¹ <i>Spanish National Research Council</i>
11.15-11.30	T_0965 Landscape trajectory reconstruction of Sele coastal plain: from the Magna Grecia settlement of Hera Argiva (Southern Italy) to present day. Carmine Guarino ¹ , Maria Rosaria Senatore ¹ , Giuseppe Baiamonte ¹ , Agostino Meo ¹ ¹ <i>University of Sannio</i>
11.30-11.45	T_9015 Using soil charcoal to explore the ecosystem history Pille Tomson ¹ , Kalev Sepp ¹ ¹ <i>Estonian University of Life Sciences</i>
11.45-12.00	T0405 Pines and Mines. Shaping the landscape of Sounion National Park (C. Greece) since the antiquity Dimitris Kazanis ¹ ¹ <i>Department of Ecology and Systematics, Faculty of Biology, National and Kapodistrian University of Athens</i>
12.00-12.15	T0761 An agricultural system in a hostile environment: the Late Roman site of Umm al-Dabadib - Kharga Oasis (Egypt) Antonello Migliozi ¹ , Giovanni Battista Chirico ¹ , Stefano Mazzoleni ¹ , Corinna Rossi ² ¹ <i>Dipartimento di Agraria - Musa-Musei delle Scienze Agrarie, Università di Napoli Federico II</i> ² <i>Department ABC - Politecnico di Milano</i>
12.15-12.30	T0472 Deciphering the trajectories of historic landscapes for assisting the historic landscape characterization in Kuling Town, Lushan national park, China Diechuan Yang ¹ , Veerle van Eetveld ² , Gao Chi ¹ ¹ <i>Department of Landscape Architecture, Huazhong Agricultural University</i> ² <i>Ghent University</i>

Thursday, 4th July 2019	
10.30-12.40	<p align="center">Symposium 58 Urbanisation. Concepts, methods and spatially explicit indicators</p> <p align="center">Room: U6- 13</p> <p align="center">Session Organisers Luis Inostroza¹, Steward Pickett²</p> <p align="center">¹<i>Ruhr-University Bochum</i> ²<i>Cary Institute of Ecosystem Studies</i></p>
10.30-10.45	Introduction to Symposium 58
10.45-11.00	T0435 The advance of the Anthropocene - Monitoring global urbanization processes from space Hannes Taubenböck ¹ , Christian Geiß ¹ , Michael Wurm ¹ ¹ <i>Earth Observation Center (EOC), German Aerospace Center (DLR)</i>
11.00-11.15	T0370 The higher, the cooler? Effects of building height on temperatures in residential areas of Beijing Weiqi Zhou ¹ ¹ <i>State Key Laboratory of Urban and Regional Ecology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences</i>
11.15-11.30	T0531 Urban landscape metrics and heat vulnerability Zoe Hamstead ¹ , Elizabeth Cook ² ¹ <i>University at Buffalo</i> ² <i>The New School</i>
11.30-11.45	T0146 A multi-methods approach to study health outcome effects of urban nature in the context of urban heat Nadja Kabisch ¹ ¹ <i>Humboldt-Universität zu Berlin</i>
11.45-12.00	T0028 Asian urbanism and compact-green development: Concepts and framework for a spatially explicit indicator for transit-oriented Asian metropolis Peilei Fan ¹ ¹ <i>Michigan State University</i>
12.00-12.15	T0186 Identifying and assessing indicators for quantifying urbanization gradients Marcela Suarez-Rubio ¹ , Renata Krenn ¹ ¹ <i>University of Natural Resources and Life Sciences (BOKU)</i>

12.15-12.20	T0673 Mapping and assessing urban geographical systems Tatiana Kharitonova ¹ , Ksenia Merekalova ¹ , Gulnara Shigabaeva ² , Dmitry Marinskikh ² ¹ <i>Lomonosov Moscow State University</i> ² <i>Tyumen State University</i>
12.20-12.25	T0567 Global patterns and 40-year trends in built-up areas within and around protected areas Bastian Bertzky ¹ , Begoña de la Fuente ¹ , Giacomo Delli ¹ , Andrea Mandrici ¹ , Grégoire Dubois ¹ ¹ <i>European Commission, Joint Research Centre (JRC), Ispra, Italy</i>
12.25-12.30	T_9004 Influence of socio-economic status on biodiversity patterns in an urban landscape Sarel Cilliers ¹ , Marié J. du Toit ¹ , Juaneé Cilliers ² ¹ <i>School of Biological Sciences, Unit for Environmental Sciences and Management, North-West University</i> ² <i>School of Geo- and Spatial Sciences, Unit for Environmental Sciences and Management, North-West University</i>
12.30-12.35	T0455 Functionality check of the ecological regional network (RERU) with respect to the fragmentation caused by urban pressure and infrastructural barriers in Umbria Region Lorena Fiorini ¹ , Alessandro Marucci ¹ ¹ <i>University of L'Aquila</i>
12.35-12.40	T0425 A multivariate approach for the classification of landscape typologies in a compact city Mahyar Masoudi ^{1,2} , Puay Yok Tan ¹ , Daniel Richards ³ ¹ <i>National University of Singapore</i> ² <i>Campus for Research Excellence and Technological Enterprise, Singapore</i> ³ <i>Natural Capital Singapore, Singapore-ETH Centre (SEC), ETH Zurich</i>

Thursday, 4th July 2019	
10.30-12.00	<p align="center">Symposium 16 Data Science in environmental research, planning and evaluation – for a scalable multi-source environmental monitoring network</p> <p align="center">Room: U6-1A</p> <p align="center">Session Organisers: Lausch Angela¹ ¹<i>Department Computational Landscape Ecology, Helmholtz Centre for Environmental Research – UFZ</i></p>
10.30-10.45	Introduction to Symposium 16
10.45-11.00	T_9012 Data Science in environmental research, planning and evaluation – for a scalable multi-source environmental monitoring network Lausch Angela ¹ ¹ <i>Helmholtz Centre for Environmental Research - UFZ</i>
11.00-11.15	T0225 Individual and Interactive Influences of Anthropogenic and Ecological Factors on Forest PM2.5 Concentrations at an Urban Scale Yin Ren ¹ ¹ <i>Institute of Urban Environment, Chinese Academy of Sciences</i>
11.15-11.30	T0655 Design and Implementation of an Integrated Platform for Forest Landscape Visualization Chen Wang ¹ , Alessandro Gimona ¹ , Yang Jiang ² ¹ <i>The James Hutton Institute, Aberdeen, UK, AB15 8QH</i> ² <i>School of Computing Science and Digital Media, Robert Gordon University, UK, AB10 7QB</i>
11.30-11.45	T0812 Widening the perspective in landscape monitoring by integrating ground-based repeat photographs as a quantitative data source Ulrike Bayr ¹ , Oskar Puschmann ¹ ¹ <i>Norwegian Institute of Bioeconomy Research (NIBIO)</i>
11.45-12.00	T0940 Quantum Landscape: Understanding landscape heterogeneity as a response of the spectral variability observed by remote sensing Marcelo Miranda ¹ , Cynnamon Dobb ² ¹ <i>Pontificia Universidad Católica de Chile</i> ² <i>Universidad Mayor de Chile</i>

Thursday, 4th July 2019	
10.30-12.30	<p align="center">Symposium 05 The ecological role of sound in terrestrial and aquatic landscapes: theories, methods and application of ecoacoustics</p> <p align="center">Room: U6-1B</p> <p align="center">Session Organisers: Almo Farina¹, Susan Fuller², Sandra Muller³, Alice Eldridge, Gianni</p>

	<p>Pavan⁴, David Monacchi⁵; Giusi Boscaino⁶</p> <p>¹Urbino University ² Science & Engineering Faculty, Queensland University of Technology ³ Geobotany, Faculty of Biology, University of Freiburg, Freiburg, Germany ⁴Pavia University CNR ⁵Conservatorio Rossini Pesaro, ⁶Capo Granitola – Mazara del Vallo</p>
10.30-10.35	Introduction to Symposium 05
10.35-10.40	<p>T0104 An ecoacoustics approach to investigating the environmental complexity of landscapes</p> <p>Almo Farina¹, Paolo Salutari² ¹Department of Pure and Applied Sciences, Urbino University ²International Institute of Ecoacoustics</p>
10.40-10.45	<p>T0301 What does an eradication sound like? Monitoring the French Island landscape with acoustic monitoring preceding a feral cat eradication.</p> <p>Elizabeth Znidarsic¹, Michael Towsey², Michael Johnston³, Anthony Truskinger², Paul Roe² ¹Charles Sturt University ²Queensland University of Technology. Ecoacoustics Group ³Invasive and Insular Research and Management</p>
10.45-11.00	<p>T0286 A changing chorus for peri-urban native forests: an ecoacoustic examination of the effects of urbanisation on biodiversity</p> <p>Susan Fuller¹ ¹Science & Engineering Faculty, Queensland University of Technology</p>
11.00-11.15	<p>T0343 Modelling the Acoustic Complexity Index to analyze the avian dawn chorus: a phenological approach to identifying differences between vocalizing bird communities in managed temperate forest plots</p> <p>Taylor Shaw¹, Sandra Müller¹ ¹University of Freiburg</p>
11.15-11.30	<p>T0380 Acoustic diversity increases with forest patch size - a test of the theory of island biogeography in agricultural landscapes</p> <p>Sandra Müller¹, Daniel Güntert¹, Luca Thomas¹, Michael Scherer-Lorenzen¹ ¹Geobotany, Faculty of Biology, University of Freiburg, Freiburg, Germany</p>
11.30-11.45	<p>T0458 Acoustic metrics to characterize underwater acoustic diversity in the Southern Ocean</p> <p>Irene T. Roca¹, Ilse Van Opzeeland² ¹Helmholtz Institute for Functional Marine Biodiversity at the University of Oldenburg (HIFMB) ²Alfred Wegener Institute for Polar and Marine Research (AWI)</p>
11.45-12.00	<p>T0654 Soundscapes for the assessment of diversity and functionality of marine ecosystems</p> <p>Nadia Pieretti¹, Roberto Danovaro¹ ¹Polytechnic University of Marche, Department of Life and Environmental Sciences</p>
12.00-12.15	<p>T0656 Listening to biodiversity under extreme weather</p> <p>Mao-Ning Tuanmu¹, Tzu-Hao Lin², Joe Chun-Chia Huang³, Chia-Yun Lee¹</p> <p>¹Biodiversity Research Center, Academia Sinica ²Department of Marine Biodiversity Research, Japan Agency for Marine-Earth Science and Technology ³School of Environmental Sciences and Natural Resources, Universiti Kebangsaan Malaysia</p>
12.15-12.30	<p>T0702 Loss of a winter wonderland? Soundscapes indexes demonstrate the effects noise pollution on winter populations and communities.</p> <p>John Quinn¹, Alexander Schindler² ¹Furman University ²Clemson University</p>

Thursday, 4th July 2019	
10.30-12.30	<p>Session Landscape Metrics</p> <p>Room: U6-1C</p>
10.30-10.45	<p>T0069 From empirical to theoretical descriptors of landscapes complexity</p> <p>Jakub Nowosad¹, Tomasz Stepinski² ¹Institute of Geoecology and Geoinformation, Adam Mickiewicz University ²Space Informatics Lab, University of Cincinnati</p>
10.45-11.00	<p>T0726 Scale and scaling in space: Top 10 rules for landscape ecologists</p> <p>Jianguo Wu¹ ¹School of Life Sciences & School of Sustainability, Arizona State University</p>
11.00-11.15	<p>T0920 Land cover proportion and heterogeneity can help predict the accuracy of spatial pattern metrics after downscaling</p> <p>Peter Kedron¹, Amy Frazier¹ ¹Arizona State University</p>

11.15-11.30	T0716 Promoting Landscape Performance Assessment: A Guideline on Performance Baseline Collection Yi Luo ¹ , Kanglin Chen ¹ , Jinxing Wei ² ¹ University of Florida ² Texas Tech University
11.30-11.45	T_4444 Connecting Ecosystem Functions to Landscape Structure at Right Scales: Beyond Correlation Analysis Jiquan Chen ¹ , Geoffrey Henebry ¹ , Raffaele Laforzezza ² , Roy David ¹ , Peilei Fan ¹ , Giovanni Sanesi ² ¹ Michigan State University ² University of Bari
11.45-12.00	T0388 Plot-level variability in phytosociological and structural characterization of tropical herbaceous vegetation in West Africa Thiburce Bokossa ¹ , Amadé Ouedraogo ² , Sylvanus Mensah ¹ , Romain Glèlè Kaka ¹ ¹ Laboratoire de Biomathématiques et d'Estimations Forestières ² Département de Biologie et Physiologie Végétales, Université de Ouagadougou
12.15-12.30	T0927 How do ecological equivalence metrics incorporate landscape parameters in a biodiversity offset context? Clarice Borges Matos ¹ , Martine Maron ² , Jean Paul Metzger ¹ ¹ University of São Paulo – Ecology Department – Institute of Biosciences ² University of Queensland – Landscape Ecology & Conservation Group and School of Geography, Planning and Environmental Management

Thursday, 4th July 2019	
10.30-12.30	<p align="center">Symposium 04 Reconstructing past landscapes to simulate future sustainable scenarios through multidisciplinary approaches</p> <p align="center">Room: U6-1D</p> <p align="center">Session Organisers Rebecca Kariuki¹, Colin Courtney-Mustaphi², Claudia Capitani³ ¹School of Life Sciences and Bio-Engineering, Nelson Mandela African Institution of Science and Technology (NM-AIST), P.O BOX 447, Arusha, Tanzania ²Department of Archaeology and Ancient History, Uppsala University, Sweden ³York Institute for Tropical Ecosystems, Environment Department, University of York</p>
10.30-10.45	Introduction to Symposium 04
10.45-11.00	T0719 From biocultural to individual rural landscapes: case studies of historical characterisation in the Northern Apennines, Italy Rebekka Dossche ¹ , Pescini Valentina ¹ , Cevasco Roberta ² , Stagno Anna ¹ ¹ University of Genoa ² University of Gastronomic Sciences
11.00-11.15	T0166 Which future for the terraced landscape? From historical analyses to future scenarios simulation for the Ivrea's Morainic Amphitheatre (Piedmont, Italy) Enrico Pomatto ¹ , Paola Gullino ¹ , Adriana Gherzi ² , Marco Devecchi ¹ , Federica Larcher ¹ ¹ Department of Agricultural, Forest and Food Sciences, University of Turin ² Department of Architecture and Design, University of Genoa
11.15-11.30	T0229 Reconstructing rural landscape: an integrated approach to analyse future scenarios and changes. The case study of Mongardino municipality (Italy) Fabrizio Aimar ¹ , Paola Gullino ² , Marco Devecchi ² ¹ Interuniversity Department of Regional and Urban Studies and Planning, Polytechnic University of Turin, 39 Viale Pier Andrea Mattioli, 10125, Turin, Italy ² Department of Agricultural, Forest and Food Sciences, University of Turin, 2 Largo Paolo Braccini, 10095, Grugliasco (TO), Italy
11.30-11.45	T0251 Loss of forest integrity in NW Amazonia: division of a basin Dolors Armenteras ¹ , Tania Marisol Gonzalez Delgado ¹ , Uriel Murcia ² ¹ Universidad Nacional de Colombia ² Instituto Sinchi
11.45-12.00	T_1009 Implementing landscape conservation approach in southern western ghats of India: achievements, issues and opportunities Aditi Bhardwaj ¹ , Anil Kumar Bhardwaj ² , Ruchi Badola ² ¹ Tata Institute of Social Sciences ² Wildlife Institute of India

12.00-12.15	T0088 How to approach reverse transfers of minor landmarks in mining and post-mining landscapes Tomáš Hájek ¹ ¹ <i>member of The Economic and Social Council of Most Region and member of International Association of Landscape Archaeology</i>
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Thursday, 4th July 2019	
10.30-12.30	Symposium 66 The landscape approach - key to enhance sustainable land use in Europe and North-America as well? Room: U6-1E Session Organisers Bas Pedroli ¹ , Wenche Dramstad ² ¹ <i>Wageningen University & Research (WUR)</i> ² <i>Norwegian Institute of Bioeconomy Research (NIBIO)</i>
10.30-10.45	Introduction to Symposium 66
10.45-11.00	T0402 Moving from rhetoric to reality: Operationalising the landscape approach in practice Terence Sunderland ¹ , James Reed ² ¹ <i>University of British Columbia & Centre for International Forestry Research</i> ² <i>Centre for International Forestry Research</i>
11.00-11.15	T_8922 Multiple aims - one landscape Wenche E. Dramstad ¹ , Svein Olav Krøgli ¹ , Misganu Debella-Gilo ¹ ¹ <i>Norwegian Institute of Bioeconomy Research (NIBIO)</i>
11.15-11.30	T0589 40 years of environmental activism in the province of Girona, Catalonia – from case advocacy to regional planning, a story of success. Sergi Nuss ¹ , Mita Castañer Vivas ¹ , Joan Vicente Ruffi ¹ , Josep Vila Subirós ¹ , Dani Boix Massafret ² , Laura Llorens Guasch ² ¹ <i>Geography Department - University of Girona</i> ² <i>Environmental Sciences Department - University of Girona</i>
11.30-11.45	T0739 Wrapping it up? How does landscape approach work in marginal areas? Hannes Palang ¹ , Anu Printsman ¹ , Raili Nugin ¹ , Kadri Kasemets ¹ , Tarmo Pikner ¹ , Tauri Tuvikene ¹ ¹ <i>Center for Landscape and Culture, Tallinn University</i>
11.45-12.00	T0403 Engaging multiple stakeholders in landscape approaches that reconcile climate, conservation and development objectives James Reed ¹ , Terry Sunderland ² ¹ <i>Center for International Forestry Research</i> ² <i>University of British Columbia</i>
12.00-12.15	T0779 From integrated landscape approach to new European commons - about stakeholders, participatory processes and social learning Theo van der Sluis ¹ , Bas Pedroli ² ¹ <i>Wageningen Environmental Research</i>
12.15-12.30	T0130 Landscape approaches for implementing green infrastructure in local planning practice: a review Martina van Lierop ¹ , Stephan Pauleit ¹ ¹ <i>Technical University of Munich, School of Life Sciences Weihenstephan, Strategic Landscape Planning and Management</i>

Thursday, 4th July 2019	
10.30-12.45	Session Urban Planning Room: U6-1F
10.30-10.45	T0452 Evaluating environmental and ecological landscape characteristics relevant to urban resilience across gradients of land-sharing-sparing and urbanity Matthew Dennis ¹ , Philip James ² ¹ <i>University of Manchester</i> ² <i>University of Salford</i>
10.45-11.00	T0754 The combination of a Green and Open Space Factor with a microclimate simulation model as a steering tool to support green and climate-sensitive urban planning

	Florian Reinwald ¹ , Zita Ring ¹ , Florian Kraus ² , Bernhard Scharf ² , Doris Damyanovic ² ¹ University of Natural Resources and Life Sciences, Vienna ² Green4Cities GmbH
11.00-11.15	T0066 Strong contribution of rapid urbanization and urban agglomeration development to regional thermal environment dynamics and evolution Zhaow Yu ¹ , Yawen Yao ¹ , Henrik Vejre ¹ ¹ University of Copenhagen
11.15-11.30	T0415 Conformance and Performance Implementation Evaluation of Green Space Planning Based on Landscape Ecological Effects in Beijing Metropolitan Area Wei Fu ¹ ¹ Beijing University of Civil Engineering and Architecture
11.30-11.45	T0426 Climate Justicescape: Integrating green infrastructure in Social-Ecological-Technological vulnerability assessment for identifying climate justice patterns in USA Chingwen Cheng ¹ ¹ Arizona State University
11.45-12.00	T0182 Exploring Planning Strategy of Urban Agriculture Based on Informal Sector in China Luoman Zhao ^{1,2} ¹ RWTH Aachen University ² Institute of Landscape Architecture
12.00-12.15	T0311 Efficiency and impacts of land use (governance) in the urban-rural nexus Markus Meyer ¹ , Andrea Früh-Müller ¹ ¹ Research Group on Agricultural and Regional Development Triesdorf
12.15-12.30	T0349 Assessment of the management effectiveness of Dinadiawan River protected landscape in Aurora province, Philippines Diomedes Racelis ¹ , Elenita Racelis ² , Mayo Grace Caoili-Amit ³ ¹ IRNR, College of Forestry and Natural Resources, University of the Philippines Los Banos ² TREES, College of Forestry and Natural Resources, University of the Philippines Los Banos ³ College of Public Affairs and Development, University of the Philippines Los Banos
12.30-12.45	T0304 How landscape heterogeneity influences the ecosystem services provision of urban green spaces? Yujing Xie ¹ ¹ Fudan University

Thursday, 4 th July 2019	
14.00-15.30	<p>Symposium 63 How is landscape ecology shaped by research policies?</p> <p>Room: Aula Magna</p> <p>Symposium organizers: Werner Rolf¹, Isabel Loupa-Ramos², Jonathan Porter³, Veerle Van Eetvelde⁴, Wenche Dramstad⁵</p> <p>¹Technical University of Munich, ²Technical University of Lisbon, ³Countryside, ⁴University of Ghent, ⁵Norwegian Institute of Bioeconomy research - NIBIO</p>
14.00-14.30	<p>Introduction of Session and presentation of survey results</p> <p>Werner Rolf</p>
14.30-15.15	<p>Moderated Discussion</p> <p>Moderator: Jonathan Porter</p>
15.15-15.30	Conclusions and Lookout

Thursday, 4 th July 2019	
14.00-15.30	<p>Symposium 69 Satellite and UAV (Drone) systems for assessing and monitoring of ecological landscapes of Africa</p> <p>Room: U6-02</p> <p>Session Organisers: Moses Azong¹, Henry Bulley², Jane Bemigisha³, Yazidhi Bamutaze⁴, Aniko Polo-Akpisso⁵</p> <p>¹Council for Scientific and Industrial Research ²BMCC, City University of New York ³ESIPPS International Ltd. ⁴Makerere University, College of Agricultural and Environmental</p>

	<i>Sciences⁵Laboratory of Botany and Plant Ecology Faculty of Sciences, University of Lomé</i>
14.00-14.15	Introduction to Symposium 69
14.15-14.30	T0620 Modelling land use/cover transitions and vegetation dynamics in the fragile Rwizi catchment, Lake Victoria Basin Yazidhi Bamutaze ¹ , Philip Massa ² , Anthony Egeru ² ¹ <i>Department of Geography, Geo-Informatics and Climatic Sciences</i> ² <i>Makerere University</i>
14.30-14.45	T0794 Multi - season biomass estimation as an indicator of rangeland quantity using MODIS imagery Abel Ramoelo ¹ , Moses Cho ² ¹ <i>South African National Parks</i>
14.45-15.00	T0798 Setting up unmanned aerial system (UAS) or drone services for agriculture in Uganda Jane Bemigisha ¹ , John Begumana ¹ , Eunice Mahoro Duli ¹ , Kennedy Adriko ¹ , Janice Nakamya ¹ , Dorothy Nanyonjo ¹ ¹ <i>ESIPPS International Ltd</i>
15.00-15.15	T0956 Digital Image Classification with Machine Learning: Application to Unmanned Aerial Vehicles (UAVs) Abdelaziz Lawani ¹ , Alain Abi-Kaberou ² ¹ <i>Eastern Kentucky University, Department of Agriculture</i> ² <i>Global Partners</i>
15.15-15.20	P0036 Application of NDVI and aerial imaging for land use classification and plant disease diagnosis Yen-Cheng Chiang ¹ ¹ <i>Department of Landscape Architecture, National Chiayi University</i>
15.20-15.25	T0196 Geospatial analysis of vegetative drought impacts on southern African biomes (1998-2017) Farai Maxwell Marumbwa ¹ , Moses Azong Cho ² , Paxie Chirwa ³ ¹ <i>University of Zimbabwe, Department of Geography and Environmental Science,</i> ² <i>Natural Resources and Environment Unit, The Council for Scientific and Industrial Research (CSIR),</i> ³ <i>Forest Science Postgraduate Programme, Department of Plant and Soil Sciences, University of Pretoria, Pretoria</i>
15.25-15.30	T0587 Characterising Spatial and Temporal Heterogeneity of Vulnerable Miombo Woodlands of the Copperbelt Province of Zambia using Remote Sensing and Landscape Metrics Mwelwa Mwape Malunga ¹ , Moses Cho ² , Paxie Chirwa ³ , Adedayo Yerokun ⁴ ¹ <i>University of Pretoria</i> ² <i>Natural Resources and Environment Unit. The Council for Scientific and Industrial Research (CSIR)</i> ³ <i>Postgraduate Forest Programme, University of Pretoria</i> ⁴ <i>Zambia Open University</i>

Thursday, 4th July 2019	
14.00-15.30	Symposium 42 - Landscape monitoring: best practices and new developments for an integrated assessment of landscape change Room: U6-03 Symposium organizers: Flurina Wartmann ¹ , Felix Kienast ¹ , Marcel Hunziker ¹ ¹ <i>Federal Research Institute for Forest, Snow and Landscape (WSL)</i>
14.00-14.15	T0781 Identification of landscape character for urban waterfront landscape based on HLC and LCA : A case of urban waterfront area, Wuhan Tongxi Gao ¹ , Chi Gao ¹ <i>Huazhong Agricultural University</i>
14.15-14.30	T0358 Extracting perceived landscape properties from texts for Landscape Character Assessment Olga Koblet ¹ , Ross S. Purves ¹ ¹ <i>University of Zurich</i>
14.30-14.45	T0352 Exploring sensitivity of perceived elements in landscape to change through user-generated content Ross Purves ¹ , Manuel Bär ¹ ¹ <i>Department of Geography, University of Zurich</i>
14.45-15.00	T0285 Physical and social aspects of forest preference and recreation – approaches to a comprehensive monitoring Marcel Hunziker ¹ , Christoph Fischer ¹ , Tessa Hegetschweiler ¹ ¹ <i>Swiss Federal Inst. for Forest, Snowe and Landscape Research, WSL</i>

15.00-15.15	T0930 The landscape services of urban spontaneous forests in Padova (north-eastern Italy) Vito Emanuele Cambria ¹ , Thomas Campagnaro ¹ , Marco Perfetti ¹ , Simone Iacopino ¹ , Tommaso Sitzia ¹ ¹ <i>Department Land, Environment, Agriculture and Forestry - University of Padua</i>
15.15-15.30	T0109 Landscape Ecology Time Analysis of Wetland in Pesnica Valley, Northeastern Slovenia Iztok Erjavec ¹ ¹ <i>NGO</i>

Thursday, 4th July 2019	
14.00-15.30	<p align="center">Symposium 72 Theoretical and practical challenges for planning landscape restoration</p> <p align="center">Room: Aula Martini (U6-04)</p> <p align="center">Session Organisers: Cristian Echeverria¹</p> <p align="center">¹<i>Universidad de Concepción</i></p>
14.00-14.15	Introduction to Symposium 72
14.15-14.30	T0252 Understanding ecological restoration effectiveness in southwestern China Sijing Qiu ¹ , Jian Peng ¹ ¹ <i>College of Urban and Environmental Sciences, Peking University</i>
14.30-14.45	T0640 Restoring riparian forests according to existing regulations could greatly improve habitat connectivity for forest fauna in Chile Isabel M Rojas ¹ , Anna M Pidegon ¹ , Volker C Radeloff ¹ ¹ <i>SILVIS Lab, Department of Forest and Wildlife Ecology, University of Wisconsin-Madison, USA</i>
14.45-15.00	T0772 Theoretical approaches and practical challenges for landscape restoration planning from the landscape sustainability science. Cristian Echeverria ¹ , Rodrigo Fuentes ¹ , Francisco De la Barrera ¹ , Mauricio Aguayo ¹ ¹ <i>Universidad de Concepción</i>
15.00-15.15	T0865 Guidelines for defining the decision space for landscape-scale ecosystem restoration Cara R. Nelson ^{1,2} ¹ <i>Department of Ecosystem and Conservation Sciences, University of Montana</i> ² <i>UCN Commission on Ecosystem Management, Ecosystem Restoration Thematic Group</i>

Thursday, 4th July 2019	
14.00-15.30	<p align="center">Symposium 18 Temporal dynamics in landscape science: New applications and opportunities in social-ecological systems</p> <p align="center">Room: U6-05</p> <p align="center">Session Organisers: Alexander Killion¹, Mario Torralba², Patrick Behrer³, Jessica Gilbert⁴, Adam Dixon⁵</p> <p align="center">¹<i>The National Socio-Environmental Synthesis Center</i> ²<i>University of Kassel</i> ³<i>Harvard University</i> ⁴<i>Texas A&M University</i> ⁵<i>University of Maryland Baltimore County</i></p>
14.00-14.15	T0828 Pines stand still, vines move: Century-scale dynamics of a mountainous mediterranean landscape Vassilis Detsis ¹ , Antonis Hadjikyriacou ² , Vagelis Papadias ³ , Christos Chalkias ³ ¹ <i>Harokopio University, Department of Home Economics & Ecology</i> ² <i>Boğaziçi University, History Department</i> ³ <i>Harokopio University, Geography Department</i>
14.15-14.30	T0091 Transformation of land use in an agricultural landscape on landscape structure and soil based ecosystem services over the last 250 years Mike Baude ¹ , Burghard C. Meyer ¹ ¹ <i>Department of Physical Geography and Geoecology, Institute of Geography University of Leipzig</i>
14.30-14.45	T0934 Integrating different time scales in the analysis and cartography of cultural landscape units in the mountain systems of Northwestern Portugal: Arga Hill as a case-study. Andreia Pereira ¹ , Lúcio Cunha ¹ ¹ <i>Departamento de Geografia e Turismo, Faculdade de Letras da Universidade de Coimbra; Centro de Estudos em Geografia e Ordenamento do Território</i>

14.45-15.00	T0241 Change in aesthetic value of landscapes over the last 150 years Uta Schirpke ¹ , Andreas Altzinger ¹ , Georg Leitinger ² , Erich Tasser ¹ ¹ <i>Institute for Alpine Environment, Eurac Research</i> ² <i>Department of Ecology, University of Innsbruck</i>
15.00-15.15	T0547 Conceptual approach for analyzing the landscape dynamics in agricultural areas Iliia Tamburadzhiev ¹ , Kamen Nam ¹ ¹ <i>Sofia university "St. Kliment Ohridski", Faculty of Geology and Geography, Department of Landscape sciences and Environmental Protection</i>
15.15-15.30	T_9005 Social and ecological factors and consequences of the rural settlement pattern transformation in North-West Russia on the turn of the Middle Ages and New time Olga Trapeznikova ¹ , Alexey Frovov ² ¹ <i>Sergeev Institute of Environmental Geoscience</i> ² <i>The Institute of World History of RAS</i>

Thursday, 4th July 2019

14.00-15.30	<p align="center">Symposium 74 Biocultural Landscapes During the Anthropocene</p> <p align="center">Room: U6-06</p> <p align="center">Session Organisers: Inocencio Jr. Buot¹, Regan Leonardus Kaswanto²</p> <p align="center">¹<i>University of the Philippines Los Baños</i>²<i>Bogor Agricultural University</i></p>
14.00-14.15	T0086 Creating a Network Model of System Component Connectivity to Visualize Agroecosystem Interactions in Ecologically Designed Permaculture Landscapes in the Philippines Jabez Joshua Flores ¹ , Ara Kathleen Bagunu ² ¹ <i>School of Environmental Science and Management, University of the Philippines Los Banos</i> ² <i>Permaculture Research PH</i>
14.15-14.30	T0174 Malevolence or Benevolence: The Nocturnal Urban Forest in the 21st Century, The Case of Seoul Forest and North Seoul Dream Forest, Seoul, South Korea Charl Justine Darapisa ¹ ¹ <i>Seoul National University</i>
14.30-14.45	T0580 Re(Connecting) with the Ifugao Rice Terraces as a Biocultural Landscape through a Youth Capacity Building and Exchange Program: A Conservation and Sustainable Development Approach Joane Serrano ¹ , Marissa Bulong ² ¹ <i>UP Open University</i> ² <i>Ifugao State University</i>
14.45-15.00	T0728 Striving for a Balance Between Sprawl and Bio-cultural Landscapes: The Case of the Ifugao Rice Terraces in the Philippines Consuelo Habito ¹ , Rosalyn Sontillanosa ² ¹ <i>Faculty of Management and Development Studies, University of the Philippines Open University</i> ² <i>National Mapping Resource Information</i>
15.00-15.05	T0127 Recommendations for Sustainable Cultivation of Organic Rice Farming in Malang East Java Indonesia Amin Setyo Leksono ¹ , Zainal Abidin ¹ , Jati Batoro ¹ , Aminudin Afandhi ² , Anisa Zairina ³ ¹ <i>Departments of Biology, Faculty of Mathematics and Natural Sciences, Universitas Brawijaya, Indonesia</i> ² <i>Faculty of Agriculture, Universitas Brawijaya, Indonesia</i> ³ <i>Forestry Study Program, Faculty of Forestry, Malang Institute of Agriculture, Indonesia</i>
15.05-15.10	T0303 Malay Community Perspective towards the Conservation of the Traditional Houses Landscape in Langkawi Azman A Rahman ¹ , Siti Asmaa Hasshim ¹ , Abd Manan Samad ¹ ¹ <i>Universiti Teknologi MARA</i>
15.10-15.15	T0774 Impacts of Oil Palm Plantation to the People of Barangay Sagpangan, Aborlan, Palawan, Philippines Lita Sopsop ¹ , Mylene Martinez ² ¹ <i>Western Philippines University</i>

Thursday, 4th July 2019

14.00-15.30	<p align="center">Symposium 03 Integrating food systems into landscape research</p> <p align="center">Room: U6-07</p> <p align="center">Session Organisers: Maria Garcia-Martin¹, Tobias Plieninger¹, Mario Torralba¹</p>
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	<i>¹Universities of Göttingen and Kassel</i>
14.00-14.15	Introduction to Symposium 03
14.15-14.30	T0236 Towards a framework to connect food value chains to landscape sustainability. An example from the Mediterranean. María García-Martín ¹ , Tobias Plieninger ¹ , Mario Torralba ² , Cristina Quintas-Soriano ^{2,1} <i>Georg-August-Universität Göttingen</i> ² <i>University of Kassel</i>
14.30-14.45	T0787 Potential contributions of food systems to sustainable landscape development Iris Bohnet ¹ , Kristina Janeckova ¹ , Ruth Beilin ² , Petr Sklenicka ^{1,1} <i>Czech University of Life Sciences Prague</i> ² <i>University of Melbourne</i>
14.45-15.00	T0059 Fostering biocultural diversity in landscapes through place-based food networks: a “solution scan” of European and Japanese models Tobias Plieninger ^{1,1} <i>University of Göttingen & University of Kassel</i>
15.00-15.15	T0840 Effects of land systems dynamics on local food systems: insights from seven Mediterranean local case-studies Esther Sanz Sanz ¹ ¹ <i>INRA UR Ecodéveloppement</i>
15.15-15.20	T0607 Local and landscape drivers of biodiversity and ecosystem service trade-offs in urban agricultural landscapes Monika Egerer ¹ , Shalene Jha ² , Stacy Philpott ^{1,1} <i>University of California, Santa Cruz</i> ² <i>University of Texas at Austin</i>

Thursday, 4th July 2019	
14.00-15.30	<p align="center">Symposium 12 Landscape resilience and ecological governance in Anthropocene</p> <p align="center">Room: U6-08</p> <p align="center">Session Organisers: Yangfan Li¹, Yi Li¹</p> <p align="center">¹<i>Xiamen University</i></p>
14.00-14.15	Introduction to Symposium 12
14.15-14.30	T0776 Landscape resilience and ecological governance in Anthropocene Yangfan Li ¹ , Yi Li ¹ ¹ <i>College of the Environment and Ecology, Xiamen University</i>
14.30-14.45	T0113 Tree species functional traits and forest network topology to characterize landscape resilience to natural disturbances Núria Aquilué ¹ , Élise Filotas ² , Dylan Craven ³ , Marie-Josée Fortin ⁴ , Christian Messier ¹ ¹ <i>Centre for Forest Research (CFR), Université du Québec à Montréal</i> ² <i>Département Science et Technologie, TÉLUQ, Université du Québec, Biodiversity, Macroecology & Biogeography, Faculty of Forest Sciences and Forest Ecology, University of Göttingen</i> , ⁴ <i>Department of Ecology & Evolutionary Biology, University of Toronto</i>
14.45-15.00	T0287 Effects of China's Payment for Ecosystem Services Programs and Agricultural Subsidies on Cropland Use Conghe Song ¹ , Qi Zhang ² , Ying Wang ^{3,1} <i>University of North Carolina at Chapel Hill</i> ² <i>Boston University</i> ³ <i>China University of Geosciences Wuhan</i>
15.00-15.15	T0317 Landscape stability analysis based on the mathematical morphology of landscape (a case study of lacustrine thermokarst plains with fluvial erosion within the Cryolithozone) Alexey Victorov ¹ , Olga Trapeznikova ¹ , Timofey Orlov ^{1,1} <i>Sergeev Institute of Environmental Geoscience of RAS</i>
15.15-15.20	T0246 Optimizing the spatial arrangement of trees in residential neighborhoods for better cooling effects Zhifeng Wu ¹ , Liding Chen ^{2,1} <i>Institute of Urban Environment, Chinese Academy of Sciences</i> ² <i>Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences</i>

Thursday, 4 th July 2019	
14.00-15.30	<p align="center">Symposium 60 Implementing the Green Infrastructure Approach in Central Europe and beyond</p> <p align="center">Room: U6-09</p> <p>Session Organisers: Marco Neubert¹, Thomas Wrbka², Hana Skokanova³, Henriette John¹</p> <p align="center">¹<i>Leibniz Institute of Ecological Urban and Regional Development</i></p> <p align="center">²<i>University Vienna – Division for Conservation Biology, Vegetation and Landscape Ecology</i></p> <p align="center">³<i>Silva Tarouca Research Institute for Landscape and Ornamental Gardening, Department of Landscape Ecology</i></p>
14.00-14.15	Introduction to Symposium 60
14.15-14.30	<p>T0789 The knowledge about the term Green Infrastructure in the public and general needs for a Green Infrastructure assessment</p> <p>Henriette John¹, Marco Neubert¹ ¹<i>Leibniz Institute of Ecological Urban and Regional Development</i></p>
14.30-14.45	<p>T_0998 Methodological geospatial guidance to support strategic deployment of Green Infrastructure</p> <p>Christine Estreguil¹, Gorm Dige², Stefan Kleeschulte³, Hugo Carrao³, Julie Raynal⁴, Anne Teller⁴ ¹<i>European Commission, Joint Research Centre (JRC)</i> ²<i>European Environment Agency</i></p> <p align="center">³<i>European Topic Center on Urban, Land and Soil systems, Space4environment</i> ⁴<i>European Commission, DG-Environment</i></p>
14.45-15.00	<p>T0788 Transnational Mapping of Green Infrastructure in Central Europe</p> <p>Neubert Marco¹, John Henriette¹ ¹<i>Leibniz Institute of Ecological Urban and Regional Development</i></p>
15.00-15.15	<p>T_1014 A Federal Green Infrastructure Concept for Germany</p> <p>Mayer Florian¹ ¹<i>Bundesamt für Naturschutz (Federal Agency for Nature Conservation)</i></p>
15.15-15.20	<p>T0184 Territorial system of ecological stability as a regional example for Green Infrastructure planning in the Czech Republic</p> <p>Hana Skokanova¹, Tomáš Slach¹ ¹<i>Silva Tarouca Research Institute</i></p>

Thursday, 4 th July 2019	
14.00-15.30	<p align="center">Symposium 64 Deciphering environmental gradients in landscapes for a better understanding of biodiversity dynamics</p> <p align="center">Room: U6-10</p> <p>Session Organisers: Jacques Baudry¹, Angela Lausch², Paola Mairota³</p> <p align="center">¹<i>National Institute for Agonomic Research (INRA)</i> ²<i>Helmholtz Centre for Environmental Research - UFZ</i> ³<i>University of Bari "Aldo Moro"</i></p>
14.00-14.15	Introduction to Symposium 64
14.15-14.30	<p>T0707 Satellite remote sensing of ecosystem functions for the assessment of ecosystems conservation status</p> <p>Paola Mairota¹, Domingo Alcaraz-Segura², Sofia Lino-Vaz³, Francisco Javier Cabello-Pinar⁴</p> <p align="center">¹<i>University of Bari "Aldo Moro"</i> ²<i>University of Granada</i> ³<i>University of Porto and University of Granada</i> ⁴<i>University of Almeria</i></p>
14.30-14.45	<p>T0466 Assessing the wheat and rapeseed vegetation structure in space and time from local to landscape scale using Sentinel-1 and 2 time series and their use in ecology</p> <p>Mercier Audrey¹, Laurence Hubert-Moy¹, Julie Betbeder², Joan Van-Baaren³, Vincent Leroux⁴, Jacques Baudry⁵ ¹<i>LETG Rennes UMR 6554 LETG; Université Rennes 2</i> ²<i>CIRAD, Forest ecosystems goods and services</i> ³<i>UMR 6553 ECOBIO, Université de Rennes 1</i> ⁴<i>Unité Ecologie et Dynamiques des Systèmes Anthropisés;</i> ⁵<i>INRA, UMR BAGAP</i></p>
14.45-15.00	<p>T0889 Two statistical approaches to infer multiscale effects of Landscape : Modelling effects of landscape variables using buffers or spatial influence functions</p>

	Florence Carpentier ¹ , Martin Olivier ¹ ¹ INRA
15.00-15.15	T0237 From threshold-based methods to functional windows to characterize relations between landscape variables and biological responses Benjamin Bergerot ¹ , Hugues Boussard ² ¹ UMR CNRS 6553 ECOBIO ² UMR INRA BAGAP
15.15-15.20	T0372 The response of biodiversity of urban ecological corridor to urbanization in Beijing Mengyuan Zhang ¹ , Shuxin Fan ¹ , Peiyao Hao ¹ , Li Dong ¹ ¹ College of Landscape Architecture, Beijing Forestry University

Thursday, 4 th July 2019	
14.00-15.30	<p align="center">Symposium 46 Landscape trajectories during the long Anthropocene: dialogues between ecology and archaeology</p> <p align="center">Room: U6-12</p> <p align="center">Session Organisers: Giuseppe Bazan¹, Angelo Castrorao Barba¹ ¹Università di Palermo</p>
14.00-14.15	P0121 Effects of colonisation on an Indigenous landscape in southeastern Australia Aedeen Cremin ¹ , Peter Bindon ² ¹ Australasian Society for Historical Archaeology ² Australian Ethnographic Institute
14.15-14.30	T0103 Distinct phases of natural landscape dynamics and intensifying human activity in the central Kenya Rift Valley during the past 1300 years Geert Van der Plas ¹ , Gijs De Cort ² , Nik Petek ³ , Daniele Colombaroli ⁴ , Paul Lane ³ , Dirk Verschuren ¹ ¹ Limnology Unit, Department of Biology, Ghent University ² Department of Earth Sciences, Royal Museum for Central Africa ³ Department of Archaeology and Ancient History, Uppsala Universitet ⁴ Centre for Quaternary Research, Department of Geography, Royal Holloway University of London
14.30-14.45	P0129 The use of LiDAR in reconstructing lost landscapes of abandoned Ruthenian and German villages in southern Poland Andrzej Affek ¹ , Agnieszka Latocha ² , Jacek Wolski ¹ , Maria Zachwatowicz ³ , Małgorzata Wieczorek ² ¹ Institute of Geography and Spatial Organization Polish Academy of Sciences ² Faculty of Earth Sciences and Environmental Management, University of Wrocław ³ Faculty of Biology, University of Warsaw
14.45-15.00	T0615 The Archaeological-Natural Resilience in the Proto-urban Megalith site of Pietra Tara. Monte Gallo Palermo Francesca Mercadante ¹ , Gianluigi Pirrera ² ¹ GeoArchPA ² AIPIN (Associazione Italiana per l'ingegneria Naturalistica)
15.00-15.15	P0167 Ancient Soil bioengineering and floristic resilience for archeonaturalistic restoration in Sicily Gianluigi Pirrera ¹ , Vera Greco ² ¹ Biocity Engineering Srl ² Parco archeologico di Naxos Taormina
15.15-15.20	P0133 Lithic and megalithic itineraries in the Sicilian naturalistic archaeological landscape Francesca Mercadante ¹ , Vera Greco ² , Gianluigi Pirrera ³ ¹ GeoArchPA ² Regione Siciliana ³ AIPIN (Associazione Italiana per l'ingegneria Naturalistica)

Thursday, 4 th July 2019	
14.00-15.30	<p align="center">Symposium 01 Disappearing snow and altered ecosystems: Observations, experiments, and outcomes</p> <p align="center">Room: U6-1A</p> <p align="center">Session Organisers: Brian Buma¹ ¹University of Colorado</p>

14.00-14.15	Introduction to Symposium 01
14.15-14.30	T0050 Warmer winters and a disappearing subnivium Kimberly L. Thompson ¹ , Warren P. Porter ¹ , Benjamin Zuckerberg ¹ , Jonathan N. Pauli ¹ ¹ <i>University of Wisconsin – Madison</i>
14.30-14.45	T0782 The potential for biodiversity loss at landscape scale due to declining snow cover Pekka Niittynen ¹ , Risto Heikkinen ² , Miska Luoto ¹ ¹ <i>University of Helsinki</i> ² <i>Finnish Environment Institute</i>
14.45-15.00	T0496 Winter climate change, snow depth, and prescribed fire affect prairie plant extinction and growth Jonathan Henn ¹ , Laura Ladwig ¹ , Ellen Damschen ¹ ¹ <i>University of Wisconsin-Madison, Department of Integrative Biology</i>
15.00-15.15	T0169 Differential responses of forest understory and overstory plants to advancing snowmelt: a test by stand-scale manipulation Makoto Kobayashi ¹ ¹ <i>Hokkaido University</i>
15.15-15.20	T0549 Experimentally Simulating Warming and Snow Loss in a Mountain Meadow Ecosystem Jill Sherwood ¹ , Diane Debinski ² , Petrutza Caragea ³ , Matthew Germino ⁴ ¹ <i>Map and Geospatial Hub, Arizona State University</i> ² <i>Department of Ecology, Montana State University</i> ³ <i>Department of Statistics, Iowa State University</i> ⁴ <i>Forest and Rangeland Ecosystem Science Center, United States Geological Survey</i>

Thursday, 4th July 2019	
14.00-14.30	<p align="center">Symposium 05 The ecological role of sound in terrestrial and aquatic landscapes: theories, methods and application of ecoacoustics</p> <p align="center">Room: U6-1B</p> <p align="center">Session Organisers: Almo Farina¹, Susan Fuller², Sandra Muller³, Alice Eldridge, Gianni Pavan⁴, David Monacchi⁵; Giusi Boscaino⁶</p> <p align="center">¹<i>Urbino University</i> ²<i>Science & Engineering Faculty, Queensland University of Technology</i> ³<i>Geobotany, Faculty of Biology, University of Freiburg, Freiburg, Germany</i> ⁴<i>Pavia University CNR</i> ⁵<i>Conservatorio Rossini Pesaro</i>, ⁶<i>Capo Granitola – Mazara del Vallo</i></p>
14.00-14.15	T0923 Optimization of temporal sampling regimes for temperate forest and grassland preserves Jonathan Eiseman ¹ , Maarten Vonhof ¹ , Sharon Gill ¹ ¹ <i>Department of Biological Sciences, Western Michigan University</i>
14.15-14.30	T0608 First assessment of the soundscape of the Integral Nature Reserve “Sasso Fratino” in the Central Apennine, Italy Roberta Righini ¹ , Gianni Pavan ¹ ¹ <i>Univeristy of Pavia, Department of Earth and Environmental Sciences, Center for Bioacoustics and Environmental Research</i>

Thursday, 4th July 2019	
14.00-15.30	<p align="center">Symposium 52 Urban Sprawl: From Measurement to Management</p> <p align="center">Room: U6-1D</p> <p align="center">Session Organisers: Jochen A. G. Jaeger¹</p> <p align="center">¹<i>Concordia University Montreal, Dept. of Geography, Planning and Environment</i></p>
14.00-14.15	Introduction to Symposium 52

14.15-14.30	T_0967 Urban sprawl on the rise: Global trends 1990–2014 Behnisch Martin ¹ , Krueger Tobias ¹ , Jaeger Jochen A. G. ² ¹ <i>Leibniz Institute of Ecological Urban and Regional Development (IOER)</i> ² <i>Concordia University Montreal, Dept. of Geography, Planning and Environment</i>
14.30-14.45	T0928 Measuring the total impact of soil consumption Maddalena Gioia Gibelli ¹ , Viola Dosi ¹ , Roberto La Greca ¹ , Riccardo Santolini ² ¹ <i>Studio architetto Gibelli</i> ² <i>Università degli Studi di Urbino, Campus Scientifico E. Mattei, Urbino (PU), Italy</i>
14.45-15.00	T0203 Mapping urban area in China using Landsat and nighttime light on Google earth engine Platform: A multi-scale comparative perspective Yina Hu ¹ , Jian Peng ¹ ¹ <i>Peking University</i>
15.00-15.15	T0135 Leading the way toward respecting limitations on a finite planet: Proposing quantitative targets and limits to urban sprawl Jochen Jaeger ¹ , Christian Schwick ² ¹ <i>Concordia University Montreal, Dept. of Geography, Planning and Environment</i> ² <i>Die Geographen Schwick und Spichtig</i>
15.15-15.20	T0434 Urban Sprawl Metrics help to identify ecological impacts: Implementation and Application of New Neighbourhood Metrics to assess Habitat Network Structure and Connectivity Hans-Georg Schwarz-v.Raumer ¹ ¹ <i>University of Stuttgart, Institute of Landscape Planning and Ecology</i>

Thursday, 4th July 2019	
14.00-15.30	Symposium 51 Modeling the structure and functioning of forest landscapes under changing climate and disturbance regimes Room: U6-1F Session Organisers: Giorgio Vacchiano ¹ , Heike Lischke ² , Paola Mairota ³ , Rupert Seidl ⁴ ¹ <i>Università di Milano</i> ² <i>Swiss Federal Institute WSL</i> ³ <i>Università di Bari</i> ⁴ <i>University of Natural Resources and Life Sciences (BOKU)</i>
14.00-14.15	Introduction to Symposium 51
14.15-14.30	P0053 Effective allocation design of riparian buffer strips in plantation forest landscapes for controlling sediment discharge from logged forests in southern Japan Satoshi Ito ¹ , Takuro Mizokuchi ¹ , Kiwamu Yamagishi ¹ , Yasushi Mitsuda ¹ , Ryoko Hirata ¹ <i>University of Miyazaki</i>
14.30-14.45	T_8897 Retrospective prediction of forest damage caused by storm 'Vaia': a comparison of three approaches to estimating the distribution of wind damage Tom Locatelli ¹ , Duncan Heathfield ² , Giorgio Vacchiano ³ , Barry Gardiner ⁴ , Donato Morresi ⁵ , Matteo Garbarino ⁵ ¹ <i>Forest Research</i> ² <i>World In A Box</i> ³ <i>Università degli Studi di Milano, DISAA</i> ⁴ <i>EFI Planted Forests Facility</i> ⁵ <i>Università degli Studi di Torino, DISAFA</i>
14.45-15.00	T0120 From mycelia to mammoths - simulating biotic disturbance agents in a changing world Juha Honkaniemi ¹ , Werner Rammer ¹ , Rupert Seidl ¹ ¹ <i>University of Natural Resources and Life Sciences, Institute of Silviculture, Vienna, Austria</i>
15.00-15.15	T0437 The scaling of resilience: projecting regeneration failure under future climate and fire regimes for Greater Yellowstone Werner Rammer ¹ , Zak Ratajczak ² , Leroy Westerling ³ , Monica G. Turner ² , Rupert Seidl ¹ ¹ <i>Institute of Silviculture, University of Natural Resources and Life Sciences, Vienna</i> ² <i>Department of Integrative Biology, University of Wisconsin</i> ³ <i>Sierra Nevada Research Institute, University of California</i>

Thursday, 4th July 2019	
16.00-16.30	Symposium 63 How is landscape ecology shaped by research policies?

	<p align="center">Room: Aula Magna</p> <p align="center">Symposium organizers: Werner Rolf¹, Isabel Loupa-Ramos², Jonathan Porter³, Veerle Van Eetvelde⁴, Wenche Dramstad⁵</p> <p align="center">¹Technical University of Munich, ²Technical University of Lisbon, ³Countryscape, ⁴University of Ghent, ⁵ Norwegian Institute of Bioeconomy research - NIBIO</p>
15.30-15.45	Reflection
15.45-16.00	Summing up

Thursday, 4th July 2019	
16.00-17.00	<p align="center">Symposium 42 Landscape monitoring: best practices and new developments for an integrated assessment of landscape change</p> <p align="center">Room: U6-03</p> <p align="center">Symposium organizers: Flurina Wartmann¹, Felix Kienast¹, Marcel Hunziker¹ <i>¹Federal Research Institute for Forest, Snow and Landscape (WSL)</i></p>
16.00-16.15	<p>T0703 Drivers of change in a coastal landscape: Case of The Yali wetlands, Central Chile. Vannia Ruiz¹, Francisco De la Barrera², Carolina Martínez¹¹<i>Pontificia Universidad Católica de Chile</i> ²<i>Universidad de Concepción</i></p>
16.15-17.00	Discussion

Thursday, 4th July 2019	
16.00-16.30	<p align="center">Symposium 18 Temporal dynamics in landscape science: New applications and opportunities in social-ecological systems</p> <p align="center">Room: U6-05</p> <p align="center">Symposium organizers: Alexander Killion¹, Mario Torralba², Patrick Behrer³, Jessica Gilbert⁴, Adam Dixon⁵</p> <p align="center"><i>¹The National Socio-Environmental Synthesis Center ²University of Kassel ³Harvard University ⁴Texas A&M University ⁵University of Maryland Baltimore County</i></p>
16.00-16.15	<p>T0164 Combining paleoecological knowledge and trait-based ecology for the sustainable management of agroecosystems Annegreet Veecken¹, Suzanne McGowan¹, Franziska Schrodtt¹, Maria João Ferreira Dos Santos²¹<i>University of Nottingham</i> ²<i>University of Zurich</i></p>
16.15-16.30	<p>T0250 Designign Soil in the Antropocene era - Territorial upgrade through the reinterpretation of "soil consumption" in the framework of landscape resilience Vittoria Mencarini¹, Luca Emanuelli², Gianni Lobosco²¹<i>Università degli studi di Ferrara</i>, ²<i>Università degli studi di Ferrara - Departement of Architecture - Sealine departmental research center</i></p>

Thursday, 4th July 2019	
16.00-17.30	

	<p align="center">Symposium 31 Biocultural Seascapes of the Anthropocene</p> <p align="center">Room: U6-06</p> <p align="center">Session Organisers: Gloria Pungetti¹, Sun-Kee Hong²</p> <p align="center">¹University of Sassari and University of Cambridge ²Mokpo National University</p>
16.00-16.15	Introduction to Symposium 31
16.15-16.30	T0902 Anthropogenic seascapes Gloria Pungetti ¹ ¹ Universities of Sassari and Cambridge
16.30-16.45	T0296 Island Biocultural Diversity - past, present and future Sun-Kee Hong ¹ ¹ Mokpo National University
16.45-17.00	T0183 Marine and coastal cultural ecosystem services: Current status and future prospect in Japan Misako Matsuba ¹ ¹ Japan Agency for Marine-Earth Science and Technology
17.00-17.15	T0506 Sustainable biocultural diversity in Southwestern seascape of the Republic of Korea Jae-Eun Kim ¹ ¹ Institution for Marine and Island Cultures, Mokpo National University

Thursday, 4th July 2019	
16.00-17.00	<p align="center">Symposium 03 Integrating food systems into landscape research</p> <p align="center">Room: U6-07</p> <p align="center">Symposium organizers: Maria Garcia-Martin¹, Tobias Plieninger¹, Mario Torralba¹</p> <p align="center">¹Universities of Göttingen and Kassel</p>
16.00-16.15	T0451 Exploring tradeoffs and synergies between food production and carbon sequestration in a grassland-dominated landscape based on extensive beef-cattle systems. Francesco Accatino ¹ , Alberto Tonda ² , Muriel Tichit ¹ ¹ UMR SADAPT, INRA, AgroParisTech, Université Paris-Saclay ² UMR GMPA, INRA, Université Paris-Saclay
16.15-17.00	Discussion

Thursday, 4th July 2019	
16.00-16.415	<p align="center">Symposium 12 Landscape resilience and ecological governance in Anthropocene</p> <p align="center">Room: U6-08</p> <p align="center">Symposium organizer: Yangfan Li¹, Yi Li¹</p> <p align="center">¹Xiamen University</p>
16.00-16.15	T0293 Connectivity conservation between coastal protected areas under anthropogenic disturbances and climate change Yi Li ¹ , Bingchao Yin ¹ , Qihao Jin ¹ , Yangfan Li ¹ ¹ Xiamen University
16.15-16.30	T_0981 The dynamics of carbon flows in coastal landscape under rapid urbanization: integrated land-sea and resilience perspective Fan Bingxiong ¹ , Li Yangfan ¹ ¹ Xiamen University
16.30-16.45	Discussion of Symposium 12

Thursday, 4th July 2019	
16.00-17.30	<p align="center">Symposium 60 Implementing the Green Infrastructure Approach in Central Europe and beyond</p>

	<p align="center">Room: U6-09</p> <p align="center">Symposium organizers: Marco Neubert¹, Thomas Wrбка², Hana Skokanova³, Henriette John¹</p> <p align="center">¹<i>Leibniz Institute of Ecological Urban and Regional Development</i></p> <p align="center">²<i>University Vienna – Division for Conservation Biology, Vegetation and Landscape Ecology</i></p> <p align="center">³<i>Silva Tarouca Research Institute for Landscape and Ornamental Gardening, Department of Landscape Ecology</i></p>
16.00-16.15	<p>T0582 Green Infrastructure at regional and local scale – Assessing connectivity and functionality through stakeholder involvement</p> <p>Florian Danzinger¹, Thomas Wrбка¹<i>Division of Conservation Biology, Vegetation Ecology and Landscape Ecology, Department of Botany and Biodiversity Research, University of Vienna</i></p>
16.15-16.30	<p>T0404 Strategic Alpine Connectivity Areas (SACA): a tool for targeting nature conservation interventions in the European Alps</p> <p>Yann Kohler¹, Guillaume Costes², Rachel Luethi³<i>Alpine Network of Protected Areas ALPARC</i>²<i>Conservatoire d'espaces naturels Haute Savoie ASTERS</i> ³<i>Swiss National Park</i></p>
16.30-16.45	<p>T0125 Assessing landscape services as foundation for Green Infrastructure functionality: the case of the Biosphere Reserve Wienerwald.</p> <p>Mita Drius¹, Katharina Theresa Sams², Friedrich Knopper², Christiane Brandenburg², Thomas Wrбка¹ ¹<i>Division of Conservation Biology, Vegetation Ecology and Landscape Ecology, Dept of Botany & Biodiversity Research, University of Vienna</i> ²<i>Institute of Landscape Development, Recreation and Conservation Planning, Dept of Landscape, Spatial and Infrastructure Sciences, University of Natural Resources and Life Sciences</i></p>
16.45-17.00	<p>T0710 Ecological networking assessment to evaluate ecosystem services and improve green infrastructure</p> <p>Maria Rita Minciardi¹, Chiara Richiardi¹, Stefania Poma², Simonetta Alberico³, Simone Ciadamidaro¹, Gian Luigi Rossi¹ ¹<i>ENEA</i>²<i>Parco del Po vercellese alessandrino</i> ³<i>Città Metropolitana di Torino</i></p>
17.00-17.15	<p>T0895 Applying socio-ecological lens to blue-green solutions in the city under the multiple social-ecological transitions. The case study of Lodz (Poland).</p> <p>Kinga Krauze¹<i>European Regional Centre for Ecohydrology PAS</i></p>
17.15-17.30	<p>T0672 Planning Green Infrastructure: strategies and action plans.</p> <p>Gian Luigi Rossi¹, Simone Ciadamidaro¹, Maria Rita Minciardi¹, Simonetta Alberico², Stefania Grasso³, Paola Vayr² ¹<i>ENEA - Laboratorio Biodiversità e Servizi ecosistemici</i> ²<i>Città Metropolitana di Torino - Dipartimento Ambiente e Vigilanza Ambientale</i> ³<i>Città Metropolitana di Torino - Dipartimento Territorio, Viabilità ed Edilizia</i></p>

Thursday, 4th July 2019	
16.00-16.30	<p align="center">Symposium 64 Deciphering environmental gradients in landscapes for a better understanding of biodiversity dynamics</p> <p align="center">Room: U6-10</p> <p align="center">Symposium organizers: Jacques Baudry¹, Angela Lausch², Paola Mairota³</p> <p align="center">¹<i>National Institute for Agonomic Research (INRA)</i> ²<i>Helmholtz Centre for Environmental Research - UFZ</i> ³<i>University of Bari "Aldo Moro"</i></p>
16.00-16.15	<p>T0888 Spatial and temporal stationarity of inter-component relationships in boreal forest landscapes of Russia</p> <p>Ksenia Merekalova¹, Alexander Khoroshev¹ ¹<i>Lomonosov Moscow state university</i></p>
16.15-16.30	<p>T_8874 Remote sensing of forest mast seeding</p> <p>Giorgio Vacchiano¹, Paola Mairota² ¹<i>University of Milano, DISAA</i> ²<i>University of Bari "Aldo Moro", DISAAT</i></p>

Thursday, 4 th July 2019	
16.00-16.30	<p>Symposium 01 Disappearing snow and altered ecosystems: Observations, experiments, and outcomes</p> <p>Room: U6-1A</p> <p>Brian Buma¹</p> <p>¹University of Colorado</p>
16.00-16.15	<p>T0007 Widespread snow loss driving mass mortality of a forest – but might it be temporary?</p> <p>Brian Buma¹, Allison Bidlack², Richard (Jr) Lader^{3,1} <i>University of Colorado, Denver</i> ²<i>Alaska Coastal Rainforest Center, University of Alaska Southeast</i> ³<i>International Arctic Research Center and Alaska Climate Adaptation Science Center, University of Alaska Fairbanks</i></p>
16.15-16.20	<p>T0735 Snow Cover Distribution in a small basin in South Western Siberia: Field Observations and Isotopic Composition</p> <p>Dmitry Pershin¹, Dmitry Chernykh¹, Natalia Malygina¹, Roman Biryukov¹, Dmitry Zolotov¹, Alla Eirikh^{1,2} <i>Institute for Water and Environmental Problems, Siberian Branch, Russian Academy of Sciences, Barnaul</i></p>
16.20-16.25	<p>T0542 Landscapes of fear in novel winters: woody debris addition increases small-mammal winter seed predation in habitats with snow removed</p> <p>Peter Guiden¹, John Orrock^{1,2} <i>University of Wisconsin-Madison</i></p>
16.25-16.30	<p>T0273 Climate change and mountain life: the risk comes from permafrost (?)</p> <p>Luisa Pedrazzini¹ <i>Regione Lombardia DG Territorio e protezione civile</i></p>

Thursday, 4 th July 2019	
16.00-17.15	<p>Symposium 62 The European Landscape Convention 20 years after: Achievements, Progresses, and Opportunities</p> <p>Room: U6-1B</p> <p>Symposium organizers: Wei-Ning Xiang¹, Daniele La Rosa², Christian Albert³</p> <p>¹University of North Carolina at Charlotte ²University of Catania, Dept. Civil Engineering and Architecture ³Leibniz University Hannover, Institute of Environmental Planning</p>
16.00-16.15	Introduction Symposium 62
16.15-16.30	<p>T0572 From the European Landscape Convention to green infrastructure: making progress or stepping backwards? Stephan Pauleit</p>
16.30-16.45	<p>T0682 The Big Hope. Landscape discourse and landscape policies in Italy after the European Landscape Convention</p> <p>Claudia Cassatella¹ <i>Politecnico di Torino</i></p>
16.45-17.00	<p>T9NN8 The European Landscape Convention at 20 – Reflections and opportunities from landscape planning processes in Italy</p> <p>Daniele La Rosa¹ <i>Department of Civil Engineering and Architecture, University of Catania</i></p>
17.00-17.15	<p>T0792 Typisation of the Slovak Landscape</p> <p>Zita Izakovičová¹ <i>Institute of Landscape Ecology, Slovak Academy of Sciences</i></p>

Thursday, 4 th July 2019	
16.00-16.45	<p>Symposium 52 Urban Sprawl: From Measurement to Management</p> <p>Room: U6-1D</p>

	Symposium organizers: Jochen A. G. Jaeger ¹ ¹ <i>Concordia University Montreal, Dept. of Geography, Planning and Environment</i>
16.00-16.15	T0797 Using edge density metrics to assess landscape fragmentation along Quezon City's Mariblo creek system Michael Abuan ¹ , Nappy Navarra ¹ ¹ <i>University of the Philippines</i>
16.15-16.30	T0825 Characterizing and understanding the transformation of urban morphology: a case study of Austin metropolitan area, Texas, U.S. Chunhong Zhao ¹ , Anna M. Hersperger ¹ ¹ <i>Swiss Federal Research Institute WSL, Land-change-science Research Unit</i>
16.30-16.45	T0368 The TOD Suitability Index: A Planning Framework for Transit-Oriented Developments (TOD) Angelo Paulo Mogul ¹ ¹ <i>Land & Man Integrated Design</i>

Thursday, 4 th July 2019	
16.00-17.15	Symposium 36 The importance of coppice forests for landscape diversity and the factors influencing the proportion and distribution of young growth stages. Room: U6-1E Debbie Bartlett ¹ , Valeriu-Norocel Nicolescu ² ¹ <i>University of Greenwich</i> ² <i>University of Braşov</i>
16.00-16.15	Introduction Symposium 36
16.15-16.30	T0129 Coppice woodlands in South East England: the socio-economic and non-market factors influencing structural diversity in the wooded landscape Debbie Bartlett ¹ ¹ <i>University of Greenwich</i>
16.30-16.45	T0818 Shaping future forestry for sustainable coppices in southern Europe: the contribution of LIFE FutureForCoppices project Andrea Cutini ¹ , Elena Gottardini ² , Simonetta Bagella ³ , Roberto Fratini ⁴ , Giuliano Patteri ⁵ , Bruno Ciucchi ⁶ ¹ <i>CREA Council for Agricultural Research and Economics - Research Centre for Forestry and Wood</i> ² <i>Edmund Mach Foundation</i> ³ <i>University of Sassari</i> ⁴ <i>University of Florence</i> ⁵ <i>Agenzia Forestas</i> ⁶ <i>Terre regionali toscane</i>
16.45-17.00	T0364 The social-ecological system of coppiced forest in the Italian Central Apennine Marco Cervellini ¹ , Giandiego Campetella ¹ , Stefano Chelli ¹ , Enrico Simonetti ¹ , Roberto Canullo ¹ ¹ <i>University of Camerino - School of Biosciences and Veterinary Medicine, Plant Diversity and Ecosystems Management Unit</i>
17.00-17.15	T0138 Interspecific variation in growth responses to tree size, competition and climate of western Canadian boreal mixed forests Xinyu Jiang ¹ ¹ <i>Guangdong Institute of Eco-environmental Science & Technology, Guangzhou, 510650, China</i>

Thursday, 4 th July 2019	
16.00-16.30	Symposium 51 Modeling the structure and functioning of forest landscapes under changing climate and disturbance regimes Room: U6-1F Symposium organizers: Giorgio Vacchiano ¹ , Heike Lischke ² , Paola Mairota ³ , Rupert Seidl ⁴ ¹ <i>Università di Milano</i> ² <i>Swiss Federal Institute WSL</i> ³ <i>Università di Bari</i> ⁴ <i>University of Natural Resources and Life Sciences (BOKU)</i>
16.00-16.15	T0671 Seed dispersal, climate change and disturbance scenario strongly and differently affect predictions of forest landscape models

	Heike Lischke ¹ , Petter Gunnar ² , Paola Maiora ³ , Giorgio Vacchiano ⁴ , Josef Bruna ⁵ ¹ <i>Dynamic Macroecology, WSL</i> ² <i>Mountain Forest Ecology,, ETH Zürich</i> ³ <i>Di.S.A.A.T. , University of Bari</i> ⁴ <i>Forest Management And Maintenance, University of Milano</i> ⁵ <i>Inst. of Botany, Academy of Sciences</i>
16.15-16.30	T_9017 Future forest dynamics under climate change, land use change, and harvest in subtropical forests in Southern China Zhuo Wu

FRIDAY, 5th July 2019

08.45-10.00	PLENARY TALK <i>A voice outside landscape ecology - From genetics to artificial intelligence: the brilliant intuitions of Primo Levi on the destiny of Man</i> Gianfranco Pacchioni Room: Aula Magna <i>University Milano-Bicocca</i>
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Friday, 5 July 2019

10.30-12.30	Symposium 20 - Challenges of Arid and Semi-Arid Landscapes in the Anthropocene: Searching for New approaches for Adaptation, Conservation, Planning and Management Room: Aula Magna <i>Session Organisers: Sima Fakheran, Vice President of IALE-International, President of IALE-Iran; Wenjiang Liu, ²Executive Deputy Director of Research Center for Ecology and Environment of Central Asia (RCEECA), the Chinese Academy of Sciences (CAS); Xi Chen, ³Vice President, Xinjiang Branch of Chinese Academy of Sciences (CAS), Director of Research Center for Ecology and Environment of Central Asia, CAS; Josef Senn, Scientific staff member, Swiss Federal Research Institute WSL</i>
10.30-10.45	Introduction to Symposium 20
10.45-11.00	T0051 Effects of Land preparation and Reforestation on Eco-hydrological Services in the Loess Plateau of China <i>Wei Wei¹ ¹State Key Lab of Urban and Regional Ecology, Research Center for Ecoenvironmental Sciences, Chinese Academy of Sciences</i>
11.00-11.15	T0097 Desertification classification framework and its application within the Northern Kulunda Steppe in Western Siberia <i>Schreiner Vera¹, Meyer Burghard² ¹Institut für Geowissenschaften und Geographie, Martin-Luther-Universität Halle-Wittenberg, ²Department of Physical Geography and Geoecology, Institute of Geography University of Leipzig</i>
11.15-11.30	T0152 Impacts of landscape changes on regional climate: The case of vegetation restoration in the Loess Plateau of China <i>Qian Cao¹, Jianguo Wu², Deyong Yu¹, Wei Wang³ ¹Beijing Normal University ²Arizona State University ³National Center for Atmospheric Research</i>
11.30-11.45	T0367 Synergies between Ecological Restoration and Energy Production- A Case of Bioenergy and Climate Change Mitigation Potential of Arid Wastelands in Northern Nigeria <i>Oludunsin Arodudu¹ ¹Maynooth University</i>
11.45-12.00	T0394 Quantifying desertification trend using the hexagonal network, gradian analysis and landscape metrics in Chaharmahal Va Bakhtiari province, Iran <i>Raheleh Daneshmandparsa^{1,2} ¹Dept. of Natur. Resour., Isf. Univ. of Technol., Isfahan, Iran ²Dept. of the Environ., Faculty of Natur. Resour. and Earth Sci, Univ. of Kashan, Kashan, Iran</i>
12.00-12.15	T0447 Soil and gas exchange under historically farmed and pristine Acacia karoo patches in the Tankwa Karoo National Park, South Africa <i>Lesego Khomo¹ ¹UNISA</i>
12.15-12.30	T0529 Tree Rings as Bio-indicator of Riverscape Changes in Central Iran <i>Hossein Moradi¹, Mahsa Mirzakhani¹, Rasoul Yousefpour², Hans-Peter Kahle², Javad Soosani³ ¹Department of Natural Resources, Isfahan University of Technology, ²Chair of Forestry Economics and Forest Planning, University of Freiburg, ³Faculty of Agriculture and Natural Resources, Lorestan University</i>

Friday, 5 July 2019	
10.30-12.00	<p align="center">Symposium 28 - Forest disturbances as drivers of tree species range shifts under global change</p> <p align="center">Room: U6 - 02</p> <p>Session Organisers: Juha Honkaniemi¹¹<i>Institute of Silviculture, University of Natural Resources and Life Sciences, Vienna (BOKU)</i>; Brian Buma², ²<i>Department of Integrative Biology, University of Colorado Denver</i>;</p>
10.30-10.45	Introduction to Symposium 28
10.45-11.00	<p>T0100 Plant pathogens have their say: Impact of a novel Phytophthora species on plant composition and ecosystem functions of kauri forests</p> <p>Luitgard Schwendenmann¹, Beate Michalzik² ¹<i>University of Auckland</i>, ²<i>University of Jena</i></p>
11.00-11.15	<p>T0156 Anthropogenic disturbance is more important than climate change in explaining compositional changes in northern forests over the past century</p> <p>Victor Danneyrolles¹, Yan Boucher², Jason Laflamme², Mark Vellend³, Yves Bergeron⁴, Dominique Arseneault¹ ¹<i>Université du Québec à Rimouski</i>, ²<i>Ministère des Forêts, de la Faune et des Parcs du Québec</i>, ³<i>Université de Sherbrooke</i>, ⁴<i>Université du Québec en Abitibi-Témiscamingue</i></p>
11.15-11.30	<p>T0248 Do we need disturbances to project species distributions? Insights from Temperate and Mediterranean forests.</p> <p>Josep M Serra-Diaz¹, Yu Liang², Robert M Scheller³, Janet Franklin⁴ ¹<i>Université de Lorraine, AgroParisTech, INRA, Silva</i> ²<i>CAS Key Laboratory of Forest Ecology and Management, Institute of Applied Ecology, The Chinese Academy of Sciences</i>, ³<i>Fellow, Center for Geospatial Analytics -- Dynamic Ecosystems & Landscapes Lab. North Carolina State University</i>, ⁴<i>University of California Riverside</i></p>
11.30-11.45	<p>T0481 Gaps accelerate temperate forest adaptation to global warming</p> <p>Lucie Dietz¹, Catherine Collet¹, Jean-Luc Dupouey¹, Lisa Laurent¹, Eric Lacombe¹ ¹<i>Université de Lorraine, AgroParisTech, Inra, Silva, 54000, Nancy, France</i></p>
11.45-12.00	<p>T0663 Climate-induced slope processes favour widespread microrefugia for nival and alpine plant species across treelines</p> <p>Rodolfo Gentili¹ ¹<i>University of Milano-Bicocca, Department of Earth and Environmental Sciences</i></p>

Friday, 5 July 2019	
10.30-12.45	<p align="center">Symposium 47 - Biophysical Methods for the Quantification, Mapping and Assessment of Ecosystem Services</p> <p align="center">Room: U6 - 03</p> <p>Session Organisers: Bastian Steinhoff-Knopp¹, Benjamin Burkhard¹ ¹<i>Leibniz Universität Hannover</i></p>
10.30-10.45	Introduction to Symposium 47
10.45-11.00	<p>T0336 A two-dimensional assessment framework for quantifying cultural ecosystem services of green infrastructures in urban area: a case study of parks in Three-hills and Five-gardens area in Beijing, China</p> <p>Xueying Tu¹⁻², Qing Chang¹, Veerle Van Eetveld², Wangxin Su¹ ¹<i>China Agricultural University</i>, ²<i>Ghent University</i></p>
11.00-11.15	<p>T_8918 Quantification and mapping of regulating and provisioning services in urban areas making use of a system dynamics model</p>

	Javier Babí Almenar ^{1,2,3} , Thomas Elliot ¹ , Benedetto Rugani ¹ , Claudio Petucco ¹ ¹ <i>Luxembourg Institute of Science & Technology</i> , ² <i>University of Trento</i> , ³ <i>University of Bordeaux</i>
11.15-11.30	T0614 Quantification and modeling of multiple ecosystem services in the Venice lagoon (Italy): an analysis from a sustainability perspective Silvia Rova ¹ , Felix Müller ² , Patrick Meire ³ , Fabio Pranovi ¹ ¹ <i>Environmental Sciences, Informatics and Statistics Dept., University Ca' Foscari of Venice</i> , ² <i>Institute for Natural Resource Conservation, Christian Albrechts University of Kiel</i> , ³ <i>Ecosystem Management Research Group, Biology Dept., University of Antwerp</i>
11.30-11.45	T0604 Integrated mapping and assessment of agroecosystems in Northern Germany Paula Rendon ^{1,2} , Bastian Steinhoff-Knopp ¹ , Benjamin Burkhard ² ¹ <i>Institute of Physical Geography and Landscape Ecology, Leibniz University of Hannover</i> , ² <i>Leibniz Centre for Agricultural Landscape Research (ZALF) Müncheberg</i>
11.45-12.00	T0145 Assessing the decrease in soil-related ecosystem services by soil erosion Bastian Steinhoff-Knopp ¹ , Kristin Kuhn ¹ , Benjamin Burkhard ¹ ¹ <i>Leibniz University Hannover</i>
12.00-12.15	T0249 Ecosystem functions and services: from plot to landscape scale Georg Leitinger ¹ , Uta Schirpke ² , Lisa Huber ¹ , Johannes Rüdiger ¹ , Erich Tasser ² , Ulrike Tappeiner ¹ ¹ <i>University of Innsbruck, Department of Ecology</i> , ² <i>Eurac Research, Institute for Alpine Environment</i>
12.15-12.30	T_0975 A tiered approach for biophysical ecosystem services quantification, mapping and assessment Benjamin Burkhard ¹ , Paula Rendón ¹ , Claudia Dworczyk ¹ , Bastian Steinhoff-Knopp ¹ ¹ <i>Leibniz University Hannover, Institute of Physical Geography and Landscape Ecology</i>
12.30-12.45	T_8882 Risk of unsustainable use of ecosystem services through capacity / use assessment: current state and scenarios for support decision making C. Sylvie Campagne ^{1,2,3} , Philip Roche ¹ ¹ <i>IRSTEA, UMR RECOVER, Aix-en-Provence</i> , ² <i>Institute of Physical Geography & Landscape Ecology</i> , ³ <i>Leibniz Universität Hannover</i>

Friday, 5 July 2019	
10.30-12.30	<p align="center">Symposium 43 - Planning with nature for sustainable landscape development: lessons-learned from around the world</p> <p align="center">Room: U6 - 04</p> <p>Session Organisers: Christian Albert, <i>Leibniz University Hannover, Institute of Environmental Planning</i>; Zhifang Wang, <i>College of Architecture and Landscape Architecture, Peking University</i></p>
10.30-10.45	Introduction to Symposium 43
10.45-11.00	T0346 City scale landscape planning based upon prioritization and governance of NBS Zhifang Wang ¹ , Sirui Wang ¹ , Yinglu Miu ¹ , Yaojin Zhou ¹ , Zhongwei Zhu ¹ , Hongpeng Fu ¹ ¹ <i>College of Architecture and Landscape, Peking University</i>
11.00-11.15	T0938 Urban regeneration with productive nature-based solutions – what are the framing conditions? Examples from seven post-industrial European cities Rieke Hansen ¹ , Sabina Leopa ² , Pietro Elisei ² , Axel Timpe ¹ ¹ <i>RWTH Aachen University</i> , ² <i>URBASOFIA</i>
11.15-11.30	T0670 Exploring Co-Benefits, Negative Externalities and Impact Pathways of Nature-based Solutions in Urban Areas Maria Susana Orta Ortiz ¹ , Davide Geneletti ¹ ¹ <i>University of Trento, Department of Environmental, Civil and Mechanical Engineering</i>
11.30-11.45	T0360 Regional policies to better protect natural heritage of peri-urban open spaces: example from European Union Marcin Spyra ¹ , Alina Schürmann ¹ ¹ <i>Martin Luther University, Halle – Wittenberg</i>
11.45-12.00	T0160 Stelvio national park: interregional planning for future landscapes

	Riccardo Giacomelli ¹ <i>University of Trento, DICAM, Doctoral Course in Civil, Environmental and Mechanical Engineering</i>
12.00-12.15	T0644 Planning nature-based solutions in the Lahn river landscape Christian Albert ¹ , Mario Brillinger ¹ , Sarah Gottwald ¹ , Paulina Guerrero ¹ , Jennifer Henze ¹ , Stefan Schmidt ¹ <i>Leibniz University Hannover, Institute of Environmental Planning</i>
12.15-12.30	T0359 A health-data led approach to green and blue infrastructure and health studies-A case study of Ireland Oludunsin Arodudu ¹ , Ronan Foley ¹ , Michael Brennan ² , Gerald Mills ³ , Tine Ningal ³ , Malachy Bradley ² ¹ Maynooth University, ² Eastern and Midland Regional Assembly, ³ School of Geography, University College Dublin

Friday, 5 July 2019	
10.30-12.30	<p>Symposium 15 - Toward a landscape-scale management of large carnivores in human-dominated areas</p> <p>Room: U6 - 05</p> <p>Session Organisers: Olivia Dondina, Valerio Orioli, <i>University of Milano-Bicocca, Department of Earth and Environmental Sciences</i>; Alberto Meriggi, <i>University of Pavia, Department of Earth and Environmental Sciences</i></p>
10.30-10.45	Introduction to Symposium 15
10.45-11.00	<p>T0082 Change of woody cover affects ocelot recovery in South Texas, USA</p> <p>Jason Vincent Lombardi¹, Michael E. Tewes¹, Humberto L. Perotto-Baldivieso¹<i>Caesar Kleberg Wildlife Research Institute, Texas A&M University-Kingsville</i></p>
11.00-11.15	<p>T0933 How Iberian lynx interact with humanized landscapes? Insights from a Portuguese study</p> <p>Inês Marques Duarte¹, Susana Dias¹, Leónia Nunes^{1,2,3}, Francisco Castro Rego¹<i>Centre for Applied Ecology "Professor Baeta Neves" (CEABN), InBIO, School of Agriculture, University of Lisbon, ²CITAB - Centre for the Research and Technology of Agro-Environmental, ³Biological Sciences, University of Trás-os-Montes e Alto Douro</i></p>
11.15-11.30	<p>T0406 Evaluating impact of major developments in Myanmar on clouded leopard connectivity and population dynamics</p> <p>Zaneta Kaszta¹, Samuel A. Cushman², Saw Htun³, Dawn Burnham¹, David W. Macdonald¹<i>Wildlife Conservation Research Unit (WildCRU), University of Oxford, ²USDA Forest Service, Rocky Mountain Research Station, ³WCS Myanmar</i></p>
11.30-11.45	<p>T0475 Using Systematic Conservation Planning to identify habitat conservation priorities for brown bears in the Romanian Carpathians</p> <p>Viorel Popescu¹, Mihai Pop², Ruben Iosif², Iulia Miu², Laurentiu Rozyłowicz²<i>Ohio University, Department of Biological Sciences, ²University of Bucharest</i></p>
11.45-12.00	<p>T0648 Should I stay or should I go? Different strategies of recolonization of a lowland ecological corridor by wolf</p> <p>Valerio Orioli¹, Alberto Meriggi², Luciano Bani¹, Olivia Dondina¹<i>University of Milano-Bicocca, ²University of Pavia</i></p>
12.00-12.15	<p>T0195 Striped hyenas - human-wildlife conflict in a highly populated area</p> <p>Yariv Malihi¹<i>INPA - Israel Nature Reserves & National Parks Authority</i></p>
12.15-12.30	<p>T0846 Understanding spatial patterns of livestock depredation risk by wolves in a human-dominated landscape of northern Apennines, Italy</p> <p>Marco Davoli¹, Tobias Kuemmerle¹, Arash Ghoddousi¹, Olivia Dondina², Elena Fabbri³, Romolo Caniglia³<i>Humboldt-Universität zu Berlin, ²Università degli Studi di Milano-Bicocca - Department of Earth and Environmental Sciences, ³Institute for Environmental Protection and Research (ISPRA)</i></p>
12.30-12.45	<p>T0192 Integrating ecology and social science to understand dynamics of human-black bear (<i>Ursus americanus</i>) interactions across an exurban landscape</p>

	Anita T Morzillo ¹ , Nicholas Yarmey ¹ , Howard Kilpatrick ² , Rick Jacobson ² , Jason Hawley ² ¹ <i>University of Connecticut</i> , ² <i>Connecticut Department of Energy and Environmental Protection</i>
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Friday, 5 July 2019	
10.30-12.30	<p>Symposium 38 - 3-D landscape metrics and visualization techniques - applications in spatial planning, environmental assessment and participatory decision processes</p> <p>Room: U6 - 06</p> <p>Session Organisers: Christine Fürst, <i>Martin Luther University Halle-Wittenberg, Inst. Geosciences and Geography, Dept. Sustainable Landscape Development</i>; Mihai Stupariu, <i>University of Bucharest, Department of Computer Science</i>; Ileana Stupariu, <i>University of Bucharest, Department of Regional Geography and Environment</i></p>
10.30-10.45	Introduction to Symposium 38
10.45-11.00	<p>T0078 Using 3-D metrics in spatial planning – application areas and suitability of indicators</p> <p>Christine Fürst¹¹<i>Dept. Sustainable Landscape Development, Martin Luther University Halle-Wittenberg</i></p>
11.00-11.15	<p>T0588 Do we need 3D-landscape metrics?</p> <p>Ulrich Walz¹¹<i>Dresden University of Applied Sciences</i></p>
11.15-11.30	<p>T0376 Differentiating between 2D and 3D landscape metrics: the role of surface variability</p> <p>Mihai-Sorin Stupariu¹, Christine Fürst², Ileana Pătru-Stupariu¹¹<i>University of Bucharest</i>, ²<i>Martin Luther University Halle-Wittenberg</i></p>
11.30-11.45	<p>T0605 Human-wildlife interactions in peri-urban areas: does the 3D fingerprint of the landscapes matter?</p> <p>Ileana Pătru-Stupariu¹, Mihai Mustăţea¹, Alin-Ionuţ Pleşoianu¹, Martin Schultze², Mihai-Sorin Stupariu¹, Christine Fürst²¹<i>University of Bucharest</i> ²<i>Martin Luther University Halle-Wittenberg</i></p>
11.45-12.00	<p>T0393 The role of 3D metrics in landscape divisions and their practical significance in environmental protection</p> <p>Marta Kubacka¹, Sylwia Bródka¹, Andrzej Macias¹¹<i>Adam Mickiewicz University, Department of Landscape Ecology</i></p>
12.00-12.15	<p>T0210 3D point clouds as a new language for linking landscape ecology and participatory planning</p> <p>Grêt-Regamey Adrienne¹, Disegna Angela²¹<i>ETH Zürich</i>, ²<i>ETH-SEC, Future Cities Lab</i></p>
12.15-12.30	<p>T0040 Landscape Visualization: Its Application for Participatory Decision Making</p> <p>Elham Nasr Azadani¹¹<i>Pennsylvania State University</i></p>

Friday, 5 July 2019	
10.30-12.45	<p>Symposium 41 - Ecology, water and the city: strengthening water-sensitive planning with Nature-Based Solutions in urban contexts</p> <p>Room: U6 - 07</p> <p>Session Organisers: Daniele La Rosa, <i>University of Catania, Department of Civil Engineering and Architecture</i>; Raffaele Pelorosso, <i>Tuscia University</i></p>
10.30-10.45	Introduction to Symposium 41
10.45-11.00	<p>T0948 Sustainable Urban Drainage Systems in Eastern Europe: an analytical overview of constraints and enabling conditions for the development of water-related Nature-Based Solutions</p>

	Anton Shkaruba ¹ , Olga Likhacheva ² , Hanna Skryhan ³ , Viktor Kireyeu ⁴ , Iryna Shpakivska ⁵ ¹ <i>Estonian University of Life Sciences</i> , ² <i>Pskov State University</i> , ³ <i>Belarusian-Russian University</i> , ⁴ <i>St. Petersburg State University</i> , ⁵ <i>Institute of the Ecology of Carpathians</i>
11.00-11.15	T0306 The Benefits of Nature-Based Solutions in Urban Landscapes in terms of Improving Ecosystem Services; The Case of the URBAN GreenUP Project in Izmir Cigdem Coskun Hepcan ¹ , Serif Hepcan ¹ , Gulsah Adiguzel ² , Merve Ozeren Alkan ¹ ¹ <i>Ege University</i> , ² <i>Mehmet Akif Ersoy University</i>
11.15-11.30	T0668 Potentialities, uncertainties and opportunities for storm water modelling introduction in NBS urban planning Raffaele Pelorosso ¹ , Daniele La Rosa ² , Federica Gobattoni ¹ ¹ <i>Tuscia University</i> , ² <i>Catania University</i>
11.30-11.45	T_8747 Analyzing the spatial equity of the benefits of Sustainable Urban Drainage Systems – case study from Mediterranean urban context Viviana Pappalardo ¹ , Daniele La Rosa ¹ , Raffaele Pelorosso ² ¹ <i>Department of Civil Engineering and Architecture, University of Catania</i> , ² <i>DAFNE Department, University of Tuscia</i>
11.45-12.00	T0233 Transitioning to a water-sensitive paradigm through and with Sustainable Urban Drainage Systems (SuDS)? - Analysis of transformative dynamics in Linz (Austria) and Toulouse (France) Marc Gimenez Maranges ¹ , Jürgen Breuste ¹ , Angela Hof ¹ ¹ <i>Paris Lodron Universität Salzburg</i>
12.00-12.15	T0650 LIM: inovative technology for designing, building and management of Green Infrastructure Projects Paulo Renato Mesquita Pellegrino ¹ , Newton Célio Becker de Moura ² , Adriana Afonso Sandre ¹ ¹ <i>Faculty of Architecture and Urbanism, University of São Paulo</i> ² <i>Faculty of Architecture and Urbanism, Federal University of Ceara</i>
12.15-12.30	T0545 Multi-target blue green infrastructures for urban regeneration and runoff control using a network of LID-BMPs. The case study of Naples Marialuce Stanganelli ¹ , Francesco De Paola ¹ , Carlo Gerundo ¹ , Pasquale Romano ¹ ¹ <i>Department of Civil, Architectural and Environmental Engineering, University of Naples Federico II</i>
12.30-12.45	T0300 Estimating the Relationship of Urban Blue Infrastructure to and the Mitigation Effects on Land Surface Temperature in the Urban Environment Junxiang Li ¹ , Caiyan Wu ¹ , Maroš Finka ² , Conghe Song ³ ¹ <i>East China Normal University</i> , ² <i>Slovak University of Technology in Bratislava (STU)</i> , ³ <i>Department of Geography, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599, USA</i>

Friday, 5 July 2019	
10.30-12.30	<p>Symposium 29 - Good anthropocene practices in contributing landscape ecology. Discourses and perspectives on governance process towards resilience and adaptation of complex systems</p> <p>Room: U6 - 08</p> <p>Session Organisers: Angela Colucci¹, ¹<i>SIEP-IALE / REsilienceLAB</i>, Emma Puerari², ²<i>Department of Planning and Environment, Faculty of Spatial Sciences, University of Groningen</i>; Luca Sára Bródy³, ³<i>Gran Sasso Science Institute (GSSI)</i></p>
10.30-10.45	Introduction to Symposium 29
10.45-11.00	T0115 Urban psychology: neuroscience, epigenetics and resilience as contributions for an ecological response to the Anthropocene Marialfonsa Fontana Sartorio ¹ ¹ <i>Associazione qualità e formazione</i>
11.00-11.15	T0322 Alignment of Social and Ecological Structures Increased the Ability of Trans-boundary River Management Shuai Wang Wang ¹ ¹ <i>Beijing Normal University</i>
11.15-11.30	T0366 Institutional barriers of the adaptation process of the cities and their reactions to the climate change

	Tereza Aubrechtová ¹ , Jan Geletič ² , Olga Halasová ³ , Michal Lehnert ³ ¹ <i>University of Ostrava, Faculty of Science</i> , ² <i>CZEGLOBE - Global Change Research Institute, CAS</i> , ³ <i>Palacký University Olomouc, Faculty of Physical Culture</i>
11.30-11.45	T0445 Behavioural change towards sustainable and resilient communities: the role of community involvement, green co-design and gamification tools Giuliana Gemini ¹ , Silvia Pezzoli ¹ , Alessandro Lué ¹ , Federico Lia ¹ ¹ <i>Poliedra - Politecnico di Milano</i>
11.45-12.00	T0591 Delineation of county landscape governance units for WuSheng Yaojing Zhou ¹ , Zhifang Wang ¹ , Sirui Wang ¹ , Yinglu Miao ¹ , Zhongwei Zhu ¹ ¹ <i>School of Architecture and Landscape Design, Peking University</i>
12.00-12.15	T0622 Good anthropocene practices: emerging trends and perspectives for the implementation of renovated adaptive governance models Angela Colucci ¹ ¹ <i>SIEP-IALE / RESilienceLAB / Co.O.Pe.Ra.Te. srl</i>
12.15-12.30	T0722 From the past straight into the future: the Italian Commons revived as socio-ecological systems in an Ecosystem Service perspective. Silvia Scozzafava ¹ ¹ <i>Independent</i>

Friday, 5 July 2019	
10.30-12.35	<p align="center">Symposium 57 - Green Infrastructure as a way to rethink Ecological Landscape Planning</p> <p align="center">Room: U6 - 09</p> <p align="center">Session Organisers: Camila Sant' Anna¹, ¹<i>University of Brasília / University of Goiás</i>, Maria do Carmo De Lima Bezerra², ²<i>UnB – University of Brasília</i></p>
10.30-10.45	Introduction to Symposium 57
10.45-11.00	Invited speaker
11.00-11.15	T0809 Species-habitat networks: A novel approach to improve agricultural landscape management for conservation Lorenzo Marini ¹ , Ignasi Bartomeus ² , Francesco Lami ¹ ¹ <i>DAFNAE, University of Padova</i> , ² <i>Dpto. Ecologia Integrativa, Estacion Biologica de Dõnana (EBD-CSIC)</i>
11.15-11.30	T0714 Ecological Landscape Planning: An applied study of the Cantareira State Park's buffer zone Adriana Afonso Sandre ¹ , Júlia Assis ¹ , Paulo Pellegrino ¹ ¹ <i>University of São Paulo, School of Architecture and Urbanism</i>
11.30-11.45	T0261 Using an ecomimicry design approach to achieve ecologically-attuned, multifunctional urban green infrastructure Caroline Nash ¹ , Stuart Connop ¹ ¹ <i>University of East London</i>
11.45-12.00	T0565 Evaluation of the green infrastructure from UAV images, in the UnB Planaltina Campus area, Brasília, DF, Brazil Rômulo Ribeiro ¹ ¹ <i>UNiversity of Brasília</i>
12.00-12.15	T0532 Defining ecological corridors for birds in urban landscapes using multipath model and landscape configuration analysis Gabriela Rosa Graviola ¹ , João Carlos Castro Pena ¹ , Milton Cezar Ribeiro ¹ ¹ <i>UNESP - São Paulo State University</i>
12.15-12.30	T0334 Islands in the Sky: Green roofs demonstrate the problems of implementing green infrastructure without good landscape planning and ecological knowledge. Heather Rumble ¹ , Alan Gange ² ¹ <i>University of Portsmouth</i> , ² <i>Royal Holloway, University of London</i>
12.30-12.35	T_0534 Mapping the cooling capacity of existing green infrastructure to support urban planning in the city of Ghent Luyuan Li ¹ , Pieter Uyttenhove ¹ , Veerle Van Eetvelde ² , Xin Cheng ¹ ¹ <i>Department of Architecture and urban planning, Ghent University</i> , ² <i>Department of Geography, Ghent University</i>

Friday, 5 July 2019

10.30-12.30	<p style="text-align: center;">Symposium 73 - Social theory and landscape ecology – Interpreting, explaining and modeling landscape management practices and decision making in the Anthropocene</p> <p style="text-align: center;">Room: U6 - 10</p> <p style="text-align: center;">Session Organisers: AndreasAagaard Christensen¹, Veerle van Eetvelde², AnnaHersperger³, Terry Marsden⁴, MatthiasBuchecker⁵; ¹ <i>University of Copenhagen, Department of Geosciences and Natural Resource Management</i>; ² <i>University of Ghent, Department of Geography, Landscape Research Unit</i>, ³ <i>Swiss Federal Research Institute WSL, Land Change Science Research Unit</i>; ⁴ <i>Cardiff University, School of Geography and Planning</i>; ⁵ <i>Swiss Federal Research Institute WSL, Social Sciences in Landscape Research Unit</i></p>
10.30-10.45	Introduction to Symposium 73
10.45-11.00	T_1018 Landscape ecological theory building in an interdisciplinary context – learning from the past towards the future Veerle Van Eetvelde ¹ <i>Ghent University, Department of Geography</i>
11.00-11.15	T0383 Inscape/Landscape Concept by P. M. Dansereau: synthesis for landscape management Miloslav Lapka ¹ <i>Faculty of Economics, University of South Bohemia in Ceske Budejovice</i>
11.15-11.30	T0433 Politics of Nature – Development of a participatory framework for water allocation, -trade and -ethics in the Western Cape Province, South Africa Jakob Raffn ¹ , Morten Graversgaard ¹ , Tommy Dalgaard ¹ <i>Aarhus University - Department of Agroecology</i>
11.30-11.45	T_1015 Comparative approaches to theory formulation from case study evidence - Examples from studies of decision making in European and post-colonial agricultural landscapes Andreas Aagaard Christensen ¹ <i>University of Copenhagen</i>
11.45-12.00	T0563 Deriving more generally applicable knowledge from multiple-case data: an example from strategic spatial planning processes Anna M. Hersperger ¹ , Simona R. Gradinaru ² , Eduardo Oliveira ³ , Sofia Pagliarin ⁴ , Gaëtan Palka ⁵ <i>Swiss Federal Research Institute WSL</i> , ² <i>University of Bucharest</i> , ³ <i>Université catholique de Louvain</i> , ⁴ <i>Bamberg University</i> , ⁵ <i>CNRS Rennes</i>
12.00-12.15	T0961 Exploring the concept of problem framing as a basis to understand actors' preparedness to implement landscape management decisions Matthias Buchecker ¹ , Raphael Gaus ¹ <i>Swiss Federal Research Institute WSL</i>
12.15-12.30	T_1007 Explaining environmental changes in the landscape: Do we need more theory or better methodology? Bradley Walters ¹ <i>Mount Allison University, Sackville, N.B. CANADA</i>
12.30-12.45	T_1008 Unified science, landscape management, and the Viewpoint of Complementarity Steen Brock ¹ <i>Aarhus University</i>

Friday, 5 July 2019

10.30-12.30	<p style="text-align: center;">Session soil, vegetation and biodiversity</p> <p style="text-align: center;">Room: U6 - 12</p>
10.30-10.45	T0709 Structure and dynamics of forest landscapes of the north-western Caucasus Marina Petrushina ¹ , Maxim Bocharnikov ¹ <i>Lomonosov Moscow State University, Faculty of Geography</i>
10.45-11.00	T0867 Assessing impact of human disturbance in shaping forest plant communities structure, productivity and diversity in highly fragmented high-Andean forests

	Mariasole Calbi ¹ <i>Freie Universitaet Berlin - Botanischer Garten und Botanischer Museum Berlin</i>
11.00-11.15	T0238 Impacts of forest restoration on soil organic carbon and nitrogen dynamics Xiaolin Dou ¹ <i>Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences</i>
11.15-11.30	T0918 Secondary forests have functionally eroded pollinator communities and reduced plant genetic diversity Urs G Kormann ¹ , F. Andrew Jones ² , Adam S. Hadley ³ , W. Douglas Robinson ⁴ , Matthew G. Betts ³ <i>¹Swiss Ornithological Institute Sempach, Bern University of Applied Sciences, ²Department of Botany and Plant Pathology, Oregon State University, ³Forest Biodiversity Research Network, Forest Ecosystems and Society, Oregon State University, ⁴Department of Fisheries and Wildlife, Oregon State University</i>
11.30-11.45	T0691 Legumes contribution to nitrogen supply in other plants and microhabitats in a green roof substrate. Stuart Dick ¹ <i>University of Portsmouth</i>
11.45-12.00	T0329 Black beauty on the rocks – distribution, function and C-storage potential of Tangel humus in the Calcareous Alps Michelangelo Olleck ^{1,2} , Jörg Ewald ^{1,2} <i>Hochschule Weihenstephan-Triesdorf, University of Applied Sciences</i>
12.00-12.15	T0925 Grazing animals are important for distribution of plant genes in alpine summer farming landscapes and rangelands Hanne Sickel ¹ , Ellen Svalheim ¹ <i>Norwegian Institute of Bioeconomy Research (NIBIO), Department of Landscape Monitoring</i>

Friday, 5 July 2019	
10.30-12.00	Session Public Participation Introduction Room: U6 – 13
10.30-10.45	Introduction to Session Public Participation Introduction
10.45-11.00	T0749 Urban Green Infrastructure for Children's Ecological Learning : Design and Collaborative Management of an Urban Park in Kitakyushu City, Fukuoka, Japan. Tomomi Sudo ¹ , Keitaro Ito ¹ , Ingunn Fjørtoft ² <i>Laboratory of Environmental Design, Department of Civil Engineering, Kyushu Institute of Technology, ²Faculty of Art, Fork Culture and Teacher Education, University College of South-Eastern Norway</i>
11.00-11.15	T0692 Potentials and issues in involving peri-urban agricultural stakeholders to enhance landscape multifunctionality. A selection of cases from “Los_Dama!” and the Alpine metropolitan areas. Alessandro Betta ¹ , Martina Van Lierop ² , Aurore Meyfroidt ³ <i>University of Trento - Department of Civil, Environmental and Mechanical Engineering (DICAM), ²Technical University of Munich, School of Life Sciences Weihenstephan, Strategic Landscape Planning and Management, ³University Grenoble Alpes, UMR PACTE</i>
11.15-11.30	T0625 Landscape preferences as predictor for social acceptance of the energy turnaround. How the perceived change of landscape quality contributes to the development of sustainable energy policies. Boris Salak ¹ , Marcel Hunziker ¹ , Felix Kienast ¹ , Reto Spielhofer ² , Ulrike Wissen ² , Adrienne Grêt-Regamey ² <i>Swiss Federal Institute for Forest, Snow and Landscape Research (WSL), ²ETH PLUS Zürich</i>
11.30-11.45	T0561 Management and Perception of metropolitan Natura 2000 sites: the case study of La Mandria Park (Turin, Italy) Federica Larcher ¹ , Luca Battisti ¹ <i>Department of Agricultural, Forest and Food Sciences, University of Turin</i>
11.45-12.00	T0191 Co-producing urban meadows as a nature-based solution: Land manager perceptions of the opportunities and challenges.

	Helen Hoyle ¹ , Anna Jorgensen ² , Philip Warren ³ , Nigel Dunnett ² , Karl Evans ³ ¹ <i>Centre for Sustainable Planning and Environments, UWE Bristol</i> , ² <i>Department of Landscape, University of Sheffield</i> , ³ <i>Department of Animal and Plant Sciences, University of Sheffield</i>
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Friday, 5 July 2019	
10.30-12.15	<p align="center">Session Remote sensing Room: U6 – 1A</p>
10.30-10.45	<p>T0228 Landscape patterns of forest types using object-based classification method based on GF-1 remote sensing data in the Qinling Mountains, China Xuehua Liu¹, Wanlong Sun¹ ¹<i>Tsinghua University</i></p>
10.45-11.00	<p>T0764 Anthropogenic gap dynamics in forest landscapes of Northeastern Europe during recent history Urmas Peterson¹, Jaan Liira² ¹<i>Department of Remote Sensing, Tartu Observatory of University of Tartu</i>, ²<i>Department of Botany, Institute of Ecology and Plant Sciences, Faculty of Science and Technology, University of Tartu</i></p>
11.00-11.15	<p>T0189 Remote sensing data for the assessment of condition dynamics of river basins vegetation cover in European Russia Natalia Mishchenko¹, Tatiana Trifonova², Natalia Mishchenko¹, Oleg Savelyev¹ ¹<i>Vladimir State University</i>, ²<i>Lomonosov Moscow State University and Vladimir State University</i></p>
11.15-11.30	<p>T0916 Modeling landscape patterns presented by the coastal ridge landforms in the lake basins of arid regions Timur Gonikov¹ ¹<i>Lomonosov Moscow State University / Faculty of Geography</i></p>
11.30-11.45	<p>T0449 3-D beach metrics: an instrument to inform resilience on Mediterranean beaches. Jose Lascrain¹ ¹<i>SGM sl</i></p>
11.45-12.00	<p>T0636 Thermal fields invariants in the southern taiga landscape using Landsat images Anastasia Baibar¹, Robert Sandlersky² ¹<i>Lomonosov Moscow State University</i>, ²<i>A.N. Severtsov Institute of Ecology and Evolution RAS</i></p>
12.00-12.15	<p>T_0791 Investigating the patterns of recurrent fires in highly urbanized Mediterranean landscapes Vincenzo Giannico¹, Mario Elia¹, Giuseppina Spano¹, Raffaele Laforteza¹, Giovanni Sanesi¹ ¹<i>Università degli Studi di Bari Aldo Moro</i></p>

Friday, 5 July 2019	
10.30-12.30	<p align="center">Symposium 35 - Planning and design for sustainable and healthy cities: mainstreaming urban ecological measures beyond demonstration projects Room: U6 – 1B Session Organisers: Ina Saumel¹, Federica Larcher²; ¹<i>TU Berlin</i>, ²<i>University of Turin, Dept. Agricultural, forest and food sciences</i></p>
10.30-10.45	Introduction to Symposium 35
10.45-11.00	<p>T0224 Agenda for Urban Farmland Conservation and Green Infrastructure Development in a Sprawled Suburban City in Tokyo, Japan Akito Murayama¹, Akiko Iida¹ ¹<i>Associate Professor, Department of Urban Engineering, School of Engineering, The University of Tokyo</i></p>

11.00-11.15	T0400 Ecosystem services spillovers from trees could reduce or increase urban heat inequities depending on the spatial patterns of residential segregation. A case study from Santiago de Chile. Ignacio C. Fernández ¹ <i>Centro de Modelación y Monitoreo de Ecosistemas, Universidad Mayor</i>
11.15-11.30	T0515 Urban community foodsheds in Tokyo Metropolis Akiko Iida ¹ , Kai Kurimoto ¹ , Kazuki Kuse ¹ , David Mason ¹ , Takahiro Yamazaki ¹ , Makoto Yokohari ¹ ¹ <i>Department of Urban Engineering, Graduate School of Engineering, The University of Tokyo</i>
11.30-11.45	T0564 Residential Greenery and Human Well-being: the Case Study of Berlin Luca Battisti ¹ , Laurantine Pille ² , Thomas Wachtel ² , Federica Larcher ¹ , Ina Säumel ² ¹ <i>University of Turin</i> , ² <i>Integrative Research Institute THESys Transformation of Human-Environment-Systems Humboldt-Universität zu Berlin</i>
11.45-12.00	T0593 Validating users' preferences for accessibility to green spaces in cities: a planning framework to increase cultural services Chika Takatori ¹ , Daniele La Rosa ² ¹ <i>Graduate School of Environmental Studies, Nagoya University</i> , ² <i>Department Civil Engineering and Architecture, University of Catania</i>
12.00-12.15	T0741 What have we learned from nature restoration and collaborative ecological landscape design in urban area in Japan? Keitaro Ito ¹ , Tomomi Sudo ¹ ¹ <i>Lab. Environmental Design, Kyushu Institute of Technology, Japanese National University Corporation</i>
12.15-12.30	T0777 Transformation towards Water Sensitive Communities: Experiences from Water Scarce Cities Zeina El Zein ¹ ¹ <i>IRI THESys - Humboldt University</i>

Friday, 5 July 2019	
10.30-12.30	Symposium 07 - Anthropocene or Urbanocene? The need of a new theory of global sustainability, including urban metabolism Room: U6 – 1C Session Organisers: Massimo Palme ¹ , Luis Inostroza ² , Daniele La Rosa ³ <i>¹Universidad Católica del Norte, ²Ruhr Universität Bochum, ³Università di Catania</i>
10.30-10.45	Introduction to Symposium 07
10.45-11.00	T0864 Anthropocene, urbanocene, capitalocene Massimo Palme ¹ <i>¹Universidad Católica del Norte</i>
11.00-11.15	T0917 Anthropocene, its 40 alternatives and planetary urbanization – considering the urbanocene proposition Franciszek Chwalczyk ¹ <i>¹Adam Mickiewicz University in Poznan, Faculty of Social Sciences</i>
11.15-11.30	T0090 Port-City interface: the water-front area in Haifa as an ecosystem between the mountain, the port and the city Noa Benvenisty ¹ , Elena Bougleux ¹ <i>¹University of Bergamo</i>
11.30-11.45	T0771 Constructed wetlands How close can be industrial sites and protected areas: the case study of Pialassa Piomboni in Ravenna Constructed wetlands produced by excavation mud in commercial docks Vittoria Mencarini ¹ , Luca Emanuelli ¹ , Gianni Lobosco ¹ , Massimo Tondello ¹ <i>¹University of Ferrara, Department of Architecture - International Research Doctorate in Architecture and Urban Planning</i>
11.45-12.00	T0595 Anatomy of a Mutating Landscape Giovanni Santamaria ¹ <i>¹New York Institute of Technology- School of Architecture and Design</i>
12.00-12.15	T0686 A Green Infrastructure and urban metabolism strategy for urban retrofitting Daniele La Rosa ¹ , Riccardo Privitera ¹ <i>¹University of Catania</i>
12.15-12.30	T0513 Public spaces and common scapes. Five questions in [scalar] transition. Carola Clemente ¹ , Marilisa Cellurale ¹ , Michele Bianchi ¹ <i>¹Sapienza, University of Rome</i>

Friday, 5 July 2019	
10.30-12.15	<p>Symposium 27 - Working with Natural Processes: Co-benefits at the Landscape Scale</p> <p>Room: U6 – 1D</p> <p>Session Organisers: Jessica Neumann¹, Chris Short², Emma Shuttleworth³, ¹<i>University of Reading / International Association for Landscape Ecology UK Chapter (ialeUK)</i>, ²<i>CCRI, University of Gloucester</i>, ³<i>University of Manchester</i></p>
10.30-10.45	<p>T0499 Green infrastructure planning for reduction of flood risks and improvement of ecosystem viability within lowland river landscapes in Latvia and Lithuania</p> <p>Anda Ruskule¹, Ivo Vinogradovs², Anita Zariņa², Dana Prižavoite¹, Kristina Veidemane¹, ¹<i>Baltic Environmental Forum – Latvia</i>, ²<i>University of Latvia</i></p>
10.45-11.00	<p>T0453 A multi-criteria approach for the Nature-Based Solutions (NBSs) assessment. The case-study of the Isar River (DE)</p> <p>Francesco Pugliese¹, Gerardo Caroppi¹, Francesco De Paola¹, Aude Zingraff-Hamed², Jerd Lupp², Maria Luce Stanganelli¹, Maurizio Giugni¹, ¹<i>University of Naples Federico II, Department of Civil, Architectural and Environmental Engineering</i>, ²<i>Technical University of Munich, Chair for Strategic Landscape Planning and Management</i></p>
11.00-11.15	<p>T0851 Exploring the acceptability and feasibility of different Natural Flood Management measures in the West Thames, UK, and the evidence needed to support decision-making.</p> <p>Angie Elwin¹, ¹<i>University of Reading</i></p>
11.15-11.30	<p>T0833 Delivering Natural Flood Risk Management through restoration of upland peatlands – evidence from landscape scale restoration in the southern Pennines, UK</p> <p>Martin Evans¹, Emma Shuttleworth¹, Tim Allott¹, Martin Kay¹, David Milledge², Joseph Holden³, ¹<i>University of Manchester</i>, ²<i>Newcastle University</i>, ³<i>University of Leeds</i></p>
11.30-11.45	<p>T0282 Sustainable development through Eco-DRR and WWNP in Aso region, Kyushu, Japan</p> <p>Tomohiro Ichinose¹, ¹<i>Keio University</i></p>
11.45-12.00	<p>T0048 Reduction of flood and sediment disaster risk using traditional knowledge of satoyama landscape on the west side of Lake Biwa, Japan</p> <p>Katsue Fukamachi¹, ¹<i>Kyoto University</i></p>
12.00-12.15	Symposium 27 final discussion

Friday, 5 July 2019	
10.30-12.45	<p>Symposium 32 - Past, present, and future resilience of forest landscapes: Unpacking effects of multi-scale climate change</p> <p>Room: U6 – 1E</p> <p>Session Organisers: Rupert Seidl¹, Winslow D. Hansen², ¹<i>University of Natural Resources and Life Sciences (BOKU) Vienna</i>, ²<i>Columbia University</i></p>
10.30-10.45	Introduction to Symposium 32
10.45-11.00	<p>T0276 Forest resilience to climate change: An investigation across scales</p> <p>Rupert Seidl¹, ¹<i>University of Natural Resources and Life Sciences (BOKU) Vienna</i></p>
11.00-11.15	<p>T0597 Multiscale climate change impacts on the Amazon rainforest</p> <p>Anja Rammig¹, Katrin Fleischer¹, Christian Zang¹, Delphine Clara Zemp², Carlos Quesada³, ¹<i>Technical University of Munich</i>, ²<i>University of Goettingen</i>, ³<i>National Institute for Amazonian Research (INPA)</i></p>
11.15-11.30	<p>T0488 Variability is more important than the mean: sensitivity of vegetation to rainfall in seasonally dry tropical forests</p>

	Naomi Schwartz ¹ , Jennifer Powers ² , Xue Feng ² ¹ <i>Department of Geogaphy, University of British Columbia</i> , ² <i>University of Minnesota</i>
11.30-11.45	T0500 Evaluating savanna-forest stability from temporal trajectories of change Carla Staver ¹ , Casey Ryan ² , Sam Bowers ² ¹ <i>Yale University</i> , ² <i>University of Edinburgh</i>
11.45-12.00	T0098 Topographic complexity increases the climate resilience of mountain forests Katharina Albrich ¹ , Werner Rammer ¹ , Rupert Seidl ¹ ¹ <i>Institute of Silviculture, University of Natural Resources and Life Sciences, Vienna</i>
12.00-12.15	T0522 Ecological constraints on the pace of upslope range shifts by subalpine forests with warming Lara Kueppers ¹ ¹ <i>University of California, Berkeley</i>
12.15-12.30	T0660 Scale-dependent changes in the structure of naturally dynamic old-growth boreal forests on two continents Niko Kulha ¹ , Leena Pasanen ² , Lasse Holmström ² , Louis De Grandpré ³ , Sylvie Gauthier ³ , Timo Kuuluvainen ¹ ¹ <i>Department of Forest Sciences, University of Helsinki</i> , ² <i>Research Unit of Mathematical Sciences, University of Oulu</i> , ³ <i>Laurentian Forestry Center, Canadian Forest Service</i>
12.30-12.45	T0347 Effects of climate variability on the resilience of tropical, temperate, and boreal forest landscapes Winslow Hansen ¹ , Rupert Seidl ² ¹ <i>Columbia University</i> , ² <i>University of Natural Resources and Life Sciences (BOKU)</i>

Friday, 5 July 2019	
10.30-12.45	Session Dynamic and Disturbance Room: U6 – 1F
10.30-10.45	T0871 Ecosystem changes induced by Robinia pseudoacacia: results from invaded landscapes in the Veneto Region Thomas Campagnaro ¹ , Simone Iacopino ¹ , Flora Giulia Simonelli ¹ , Tommaso Sitzia ¹ ¹ <i>Dept. of Land, Environment, Agriculture and Forestry - Università degli Studi di Padova</i>
10.45-11.00	T0742 The effect of the invasive species Buddleja davidii on plant–pollinator networks is mediated by honeybee abundance Daria Corcos ¹ ¹ <i>DAFNAE, University of Padova, Viale dell'Università 16, 35020 Legnaro (Padua), Italy</i>
11.00-11.15	T_2222 Integrating vegetation suitability into the ecological restoration in the LoessPlateau, China Cong Wang ¹ ¹ <i>Research Center for Eco-environmental Sciences, Chinese Academy of Sciences</i>
11.15-11.30	T_9003 Amazon deforestation drives malaria transmission, and malaria burden reduces forest clearing Andrew MacDonald ¹ , Erin Mordecai ² ¹ <i>Earth Research Institute, University of California, Santa Barbara</i> , ² <i>Department of Biology, Stanford University</i>
11.30-11.45	T0628 Transboundary Climate Adaptation Strategies Are Needed For East Asian Temperate Forests. Hyeyeong Choe ¹ , James Thorne ² ¹ <i>Kangwon National University</i> , ² <i>University of California Davis</i>
11.45-12.00	T0795 Responses of Spring Phenology to Preseason Warming and Temperature Sensitivity Changes in High Latitudes of China Yue Yang ¹ , Haibo Du ² , Hong S. He ³ , Shengwei Zong ² , Zhengfang Wu ² , Mai-He Li ⁴ ¹ <i>Northeast Normal University, Changchun, China</i> , ² <i>School of Geographical Sciences, Northeast Normal University, 130024, Changchun, China</i> , ³ <i>School of Natural Resources, University of Missouri, Columbia, MO, USA</i> , ⁴ <i>Forest Dynamics, Swiss Federal Research Institute WSL, Birmensdorf, Switzerland</i>
12.00-12.15	T0844 Urbanization and black locust dominance effects on understory plant biodiversity in three European cities compared Simone Iacopino ¹ , Sabina Burrascano ² , Cecilia Bacchetti ³ , Giovanni Trentanovi ¹ , Tommaso Sitzia ¹ ¹ <i>Università degli Studi di Padova, Dipartimento Territorio e Sistemi Agro-forestali</i> , ² <i>Sapienza Università di Roma, Dipartimento di Biologia Ambientale</i> , ³ <i>Regione Lazio</i>

12.15-12.30	T0292 Landscape Approach Methodology for Islands Environmental Monitoring Artem Kudriavtcev ¹ ¹ <i>Pacific International Landscape Center Far East Federal University</i>
12.30-12.45	T0211 Does land use change influence human well-being and development in the Amazon's agriculture frontier? Andrea Santos Garcia ¹ , Paul C. West ² , James S. Gerber ² , Maria Victoria R. Ballester ¹ ¹ <i>Environmental analysis and Geoprocessing Lab, Centre for Nuclear Energy in Agriculture, University of São Paulo,</i> ² <i>Global Landscapes Initiative, Institute on the Environment, University of Minnesota</i>

Friday, 5 July 2019	
14.00-14.55	Symposium 20 - Challenges of Arid and Semi-Arid Landscapes in the Anthropocene: Searching for New approaches for Adaptation, Conservation, Planning and Management Room: Aula Magna Session Organisers: Sima Fakheran, <i>Vice President of IALE-International, President of IALE-Iran;</i> Wenjiang Liu, <i>²Executive Deputy Director of Research Center for Ecology and Environment of Central Asia (RCEECA), the Chinese Academy of Sciences (CAS);</i> Xi Chen, <i>³Vice President, Xinjiang Branch of Chinese Academy of Sciences (CAS), Director of Research Center for Ecology and Environment of Central Asia, CAS;</i> Josef Senn, <i>Scientific staff member, Swiss Federal Research Institute WSL</i>
14.00-14.15	T0571 A rapid method for quantifying landscape-scale vegetation disturbances by surface coal mining in arid and semiarid regions Qun Ma ¹ , Chunyang He ² , Xuening Fang ² ¹ <i>Shanghai Normal University, ²Beijing Normal University)</i>
14.15-14.30	T0600 The impact of historic land-clearing on the fire-response of an endangered bird species Simon J Verdon ¹ , Michael F Clarke ¹ , Simon J Watson ¹ ¹ <i>La Trobe University</i>
14.30-14.35	T0618 Valuation of tradeoffs between agricultural production and ecosystem services for adaptive water resources management in the Heihe River Basin XiangzhengDeng ¹ , Zhihui Li ¹ ¹ <i>Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences</i>
14.35-14.40	T0632 Development of a system of systems framework to better understanding feedback loops and multi-scale interactions in social-ecological systems in Sub-Saharan Africa Martin Schultze ¹ , Christine Fürst ¹ ¹ <i>Institute of Geosciences and Geography/ Martin-Luther University Halle-Wittenberg</i>

Friday, 5 July 2019	
14.00-15.15	Symposium 47 - Biophysical Methods for the Quantification, Mapping and Assessment of Ecosystem Services Room: U6 - 03 Session Organisers: Bastian Steinhoff-Knopp ¹ , Benjamin Burkhard ¹ ¹ <i>Leibniz Universität Hannover</i>

14.00-14.15	T0443 Ecosystem services of German landscapes Karsten Grunewald ¹ , Ralf-Uwe Syrbe ² , Ulrich Walz ³ , Sophie Meier ² , Burkhard Schweppe-Kraft ⁴ ¹ <i>Leibniz Institute of Ecological Urban and Regional Development</i> , ² <i>IOER</i> , ³ <i>HTW Dresde</i> , ⁴ <i>BfN</i>
14.15-14.30	T0504 A cumulative indicator for mapping recreational ecosystem services supply and demand in Germany. Johannes Hermes ¹ , Christian Albert ¹ , Christina von Haaren ¹ ¹ <i>Leibniz University Hannover, Institute of Environmental Planning</i>
14.30-14.45	T0613 Lowland riparian hardwood forests – regulating services of the European remnants Andrzej Affek ¹ , Anna Kowalska ¹ , Ewa Kołaczowska ¹ , Bogusława Kruczkowska ² , Edyta Regulska ¹ , Jacek Wolski ¹ ¹ <i>Institute of Geography and Spatial Organization, Polish Academy of Sciences</i> , ² <i>Faculty of Agriculture and Biology, Warsaw University of Life Sciences</i>
14.45-15.00	T0664 Identification of hotspots and bundles of forest ecosystem services in Europe Francesco Orsi ¹ , Davide Geneletti ¹ ¹ <i>University of Trento</i>
15.00-15.15	T0822 Impacts of forest management on ecosystem services: reliable projections require fine-scale information on landscape characteristics Anu Akujärvi ¹ , Anna Repo ¹ , Altti Akujärvi ² , Aleksi Lehtonen ³ , Jari Liski ¹ ¹ <i>Finnish Environment Institute</i> , ² <i>VTT Technical Research Centre of Finland</i> , ³ <i>Natural Resources Institute Finland</i>

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14.00-14.15	<p>Symposium 43 - Planning with nature for sustainable landscape development: lessons-learned from around the world</p> <p>Room: U6 - 04</p> <p>Session Organisers: Christian Albert, <i>Leibniz University Hannover, Institute of Environmental Planning</i>; Zhifang Wang, <i>College of Architecture and Landscape Architecture, Peking University</i></p>
14.00-14.15	<p>T0158 The adoption of an Ecosystem services-based approach for green infrastructure design: practical insights from the case study of Rescaldina Municipality (Milan Metropolitan city, Italy)</p> <p>Silvia Ronchi¹, Andrea Arcidiacono¹, Laura Pogliani¹ ¹<i>Politecnico di Milano - Department of Architecture and Urban Studies (INRA)</i>, ²<i>Agroécologie–Plateforme GenoSol, BP 86510, F-21000 Dijon, France</i>, ³<i>Femto-ST Institute, Univ. Bourgogne Franche-Comté/CNRS Besançon – France</i>, ⁴<i>IRD, Sorbonne Université, UMMISCO, F-93143, Bondy, France</i></p>

Friday, 5 July 2019

14.00-15.00	<p>Symposium 38 - 3-D landscape metrics and visualization techniques - applications in spatial planning, environmental assessment and participatory decision processes</p> <p>Room: U6 - 06</p> <p>Session Organisers: Christine Fürst, <i>Martin Luther University Halle-Wittenberg, Inst. Geosciences and Geography, Dept. Sustainable Landscape Development</i>; Mihai Stupariu, <i>University of Bucharest, Department of Computer Science</i>; Ileana Stupariu, ³<i>University of Bucharest, Department of Regional Geography and Environment</i></p>
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14.00-14.15	T0073 Integrating the three-dimensional pattern metrics and circuitry-theory to develop the greenspace ecological networks Fanhua Kong ¹ , Fan Fei ² , Jiayu Chen ¹ , Haiwei Yiin ^{2,1} <i>International Institute for Earth System Science (ESSI), Nanjing University, ²School of Architecture and Urban Planning, Nanjing University</i>
14.15-14.30	T0325 Topographic controls over soil-vegetation relationships in the Southern Urals, Russia under climatic changes Alexander Khoroshev ¹ , Darya Sharova ¹ , Glafira Leonova ^{1,1} <i>Lomonosov Moscow State University, Faculty of Geography</i>
14.30-14.45	T0943 Innovative design and inventory technologies in historical urban complex on the example of terraced of terraced landscape in a UNESCO protected area. Dagmara Pasinska ¹ , Wojciech Rydlewicz ^{2,1} <i>Institute of Architecture and Urban Planning, Technical University of Lodz, ²Softdesk Systems Centre</i>
14.45-14.50	T0629 Analyzing urban thermal environment corresponding to the 3D urban spatial pattern Fanhua Kong ¹ , Jiayu Chen ¹ , Haiwei Yiin ^{2,1} <i>International Institute for Earth System Science (ESSI), Nanjing University, ²School of Architecture and Urban Planning, Nanjing University</i>
14.45-14.50	T0763 Three-dimensional Point Cloud Data Based Eye-level Urban Greenery Assessment and Greening Simulation Model Han Kyul Heo ¹ , Dong Kun Lee ¹ , Yoon-hee Jeung ² , Ho Gul Kim ^{3,1} <i>Seoul National University, ²Research Institute for Gangwon, ³Cheongju University</i>
14.50-15.00	Conclusion

Friday, 5 July 2019	
14.00-14.45	<p align="center">Symposium 41 - Ecology, water and the city: strengthening water-sensitive planning with Nature-Based Solutions in urban contexts</p> <p align="center">Room: U6 - 07</p> <p align="center">Session Organisers: Daniele La Rosa, <i>University of Catania, Department of Civil Engineering and Architecture</i>; Raffaele Pelorosso, <i>Tuscia University</i></p>
14.00-14.15	T0147 Watersigns. Memories of water and urban design strategies Sebastiano D'Urso ^{1,1} <i>Department of Civil Engineering and Architecture. University of Catania</i>
14.15-14.30	T0852 Mapping Water Gioia Gibelli ¹ , Luca Dorbolò ¹ , Viola Maria Dosi ¹ , Caterina Selva ^{1,1} <i>STUDIO Gioia Gibelli</i>
14.30-14.45	T0297 The research on the application of water sensitive urban design in sponge city construction of China Zhufang Wang ¹ , Yinjiang Zhang ^{1,1} <i>Shanghai Ocean University</i>

Friday, 5 July 2019	
14.00-15.20	<p align="center">Symposium 35 - Planning and design for sustainable and healthy cities: mainstreaming urban ecological measures beyond demonstration projects</p> <p align="center">Room: U6 – 1B</p> <p align="center">Session Organisers: Ina Saumel¹, <i>¹TU Berlin</i>, Federica Larcher², <i>²University of Turin, Dept. Agricultural, forest and food sciences</i></p>

14.00-14.15	T0800 Dynamic planning of adaptation technologies across sectors using multi-objective optimization for Suwon-city Jung Hee Hyun ¹ , Dong Kun Lee ¹ , Chae Yeon Park ¹ ¹ <i>Seoul National University, Interdisciplinary Program in Landscape Architecture</i>
14-15.14.30	T0667 Creative tensions in City Teams: Bringing together conflictious stakeholder for successful urban transformation Reddy Suhana Elisabeth
14.30-14.45	T0065 Opportunities and Challenges of Forest Landscape Restoration (FLR) in Latin America and the Caribbean James McBreen ¹ ¹ <i>International Union for Conservation of Nature (IUCN)</i>
14.45-14.50	T0020 Spatial interaction between urbanization and ecosystem services: a case study of the Changsha-Zhuzhou-Xiangtan urban agglomeration in China Xiao Ouyang ¹ ¹ <i>hunan normal university</i>
14.50-14.55	T0060 Strategic Urban Ecosystem Planning in a Changing Climate: Growing the Resilient Urban Forest Today for the Sustainable and Healthy City of Tomorrow Naomi Zürcher ¹ ¹ <i>Arbor Aegis / European Forum on Urban Forestry</i>
14.55-15.00	T0212 The Rieselfeld district in Freiburg: promoting sustainable urbanisation and resilience leveraging on green blue infrastructure Maria-Beatrice Andreucci ¹ ¹ <i>Sapienza University of Rome, Planning Design Technology of Architecture Department</i>
15.00-15.05	T0339 Potential of new urban greenery areas in the context of present and future global challenges. Ingrid Belčáková ¹ , Martina Slámová ² ¹ <i>Technical University in Zvolen, Faculty of Ecology and Environmental Sciences, Dpt. of UNESCO for Sustainable Development and Ecological Awareness,</i> ² <i>Technical University in Zvolen, Faculty of Ecology and Environmental Sciences, Dpt. of Landscape Planning and Design</i>
15.05-15.10	T0440 Urban farming, productive green space, local food system, community foodshed, Tokyo Jan Macháč ¹ , Jan Brabec ¹ , Petr Meyer ² , Jiří Louda ¹ ¹ <i>J. E. Purkyne University in Usti nad Labem, Czech Republic, Institute for Economic and Environmental Policy,</i> ² <i>J. E. Purkyne University in Usti nad Labem, Czech Republic, Faculty of Science</i>
15.10-15.15	T0498 Assessment of the structural connectivity of green spaces to identify stepping stones for garden city development of Quezon City, Philippines Aicel Mae Alvarez ¹ , Nappy Navarra ¹ ¹ <i>College of Architecture, University of the Philippines</i>
15.15-15.20	T0616 An innovative approach to Floating Islands as multifunctional devices for ecosystem services provision Cleandho M. de Souza ¹ , Paulo Renato Mesquita Pellegrino ¹ ¹ <i>University of Sao Paulo</i>

Friday, 5 July 2019

14.00-14.30	<p>Symposium 07 - Anthropocene or Urbanocene? The need of a new theory of global sustainability, including urban metabolism</p> <p>Room: U6 – 1C</p> <p>Session Organisers: Massimo Palme¹, Luis Inostroza², Daniele La Rosa^{3,1}<i>Universidad Católica del Norte, ²Ruhr Universitat Bochum, ³Università di Catania</i></p>
14.00-14.15	<p>T_0952 Urban microclimate and overheating in urban canyons in Valparaíso, Chile</p> <p>Claudio Carrasco¹, Massimo Palme² <i>¹Facultad de Ingeniería, Universidad de Valparaíso, ²Escuela de Arquitectura, Universidad Católica del Norte</i></p>
14-15.14.30	<p>T_1005 Fatbergers: material ecologies, it's matter and the complexities of waste</p> <p>Rosalea Monacella¹ <i>¹Harvard University</i></p>

Friday, 5 July 2019

15:30 – 16:00	<p>CONGRESS CLOSING</p> <p>Room: Aula Magna</p>
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Defining, quantifying, measuring and monitoring sustainability

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Effects of global climate change on development and sustainability

Sustainable chemistry

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Developments in cultural diversity, tradition, social systems, globalization, immigration and settlement, and their impact on cultural or social sustainability

System analysis methods, including life cycle assessment and management

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Global, regional, and urban climate and their interplays
Climate dynamics and variability
Impact of climate on short-term extreme events
Chemistry, aerosol, cloud, and climate interactions
Hydroclimate
Interactions of air, land, water, and plant
Interactions of water-, energy-, and carbon-cycles
Impact of climate on air/water quality, ecosystem, human health, food production
Impact of climate on economy and society
Climate mitigation and adaptation policies and strategies
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Geoengineering

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POSTER PROGRAM

Building U6 – ground floor

Poster can be displayed all the week - Poster sessions:

Monday 1st 18.30-19.00 / Tuesday 2nd 17:30-19:00 / Thursday 4th 17:30-18:30

Symposium 02
P0174 Delineation of urban growth boundary based on ecological security pattern Rui Zhou ¹ , Jun Gao ¹ <i>¹Shanghai Normal University</i>
Symposium 03
P0031 Agrarian landscape rehabilitation following landscape bionomics Vittorio Ingegnoli ¹ , Stefano Bocchi ^{1,2} <i>¹State University of Milan</i>
P0093 Investigating the off-stage landscape service burdens of olive oil production Maria Rita Pasimeni ¹ , Donatella Valente ¹ , Irene Petrosillo ¹ , Giovanni Zurlini ^{1,2} <i>¹Lab. of Landscape Ecology, Dept. of Biological and Environmental Sciences and Technologies, University of Salento</i>
Symposium 04
P0064 We need to talk about walls: examining the legacy of the Berlin Wall on a peri-urban forest Elsa Anderson ¹ <i>¹Technische Universität of Berlin</i>
Symposium 05
P0210 Forest-bird relationships within two differently managed Natura 2000 alpine sites: an application of the bioacoustics approach at small scale Alessia Portaccio ¹ , Tommaso Sitzia ¹ , Andrea Favaretto ² , Thomas Campagnaro ^{1,2} <i>¹TESAF Department, University of Padova ²Bioprogramm (Soc.Coop.R.L.)</i>
T0847 Evaluation of anthropogenic disturbances on the soundscape of urban parks Alessandro Bisceglie
Symposium 07
T0659 A circular and Nature-based view of urban systems: The low-entropy city Raffaele Pelorosso ^{1,2} <i>¹Tuscia University</i>
Symposium 08
T_0964 Effects of habitat fragmentation and landscape structure on core and peripheral populations of the eastern green lizard (Lacerta viridis) Ana María Prieto Ramírez
P0170 Enhancing tree health and urban biodiversity along with citizen wellbeing: analyzing tree functional traits to support urban forest planning and management in Padova (Italy). Chiara Cortinovis ¹ , Claudia Alzetta ² , Davide Geneletti ¹ , Grazia Zulian ³ , Federico Agostini ⁴ <i>¹University of Trento ²Comune di Padova ³European Commission Joint Research Centre ⁴University of Padova</i>
T0738 Understory vegetation recovery after wildfire disturbances in boreal forest Bo Liu
Symposium 09
P0001 Scenario analysis of ecosystem service changes and interactions in a mountain-oasis-desert system: a case study in Altay Prefecture, China Qi Fu
P_8193 National Park Collaborative Management Functional Zoning Study in China—Taking Shennongjia National Park as an example Jie Li ¹ , Weiyue Li ¹ , Jun Gao ¹ , Jing Fu ^{1,2} <i>¹School of Environmental and Geographical Sciences, Shanghai Normal University</i>
P0008 Future trends in the provision of ecosystem services of mountain grassland Uta Schirpke ^{1,2} , Marina Kohler ² , Georg Leitinger ² , Veronika Fontana ¹ , Erich Tasser ¹ , Ulrike Tappeiner ^{1,2} <i>¹Institute for Alpine Environment, Eurac Research ²Department of Ecology, University of Innsbruck</i>

<p>P0082 The influence of hiking pressure on wildlife activity in the Baekdudaegan Mountain Range Trail in Korea Byung Mook Hwang¹, Dongwook W. Ko¹, Chan Ryul Park ¹<i>Department of Forest, Environment, and Systems, Kookmin University</i> ²<i>Urban Forests Research Center, National Institute of Forest Science (NIFoS)</i></p>
<p>P0088 Study on supply and demand matching of ecosystem services in Loess Hilly Regiona case study of Lanzhou, Gansu Province Chunfang Liu¹ ¹<i>College of Social Development and Public Administration, Northwest Normal University</i></p>
<p>P0120 Relationships between habitat structure and ecosystem services: carbon stock in alpine forests and prairies Emilio Padoa-Schioppa¹, Angela Proietto², Francesca Mazzucchelli¹, Claudio Liga¹, Davide Abu El Khair¹, Claudia Canedoli¹ ¹<i>University of Milano-Bicocca; Department of Earth and Environmental Sciences</i> ²<i>University of Milano</i></p>
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<p>P0034 Integrated assessment of forest bioenergy options using the Landscape simulation and Ecological Assessment (LEcA) tool – a study of Lithuania Ulla Mörtberg¹, Xi Pang¹, Renats Trubins², Gintautas Mozgeris³ ¹<i>Department of Sustainable Development, Environmental Science and Engineering, KTH Royal Institute of Technology, Stockholm</i> ²<i>Swedish University of Agricultural Sciences, Alnarp</i> ³<i>Agriculture Academy of Vytautas Magnus University, Institute of Forest Management and Wood Science</i></p>
<p>P0046 Temperate European floodplain forests face the threats of water management projects Ivo Machar¹, Jan Brus² ¹<i>Palacky University Olomouc, Faculty of Science, Dpt. of Development and Environmental Studies</i> ²<i>Palacky University Olomouc, Faculty of Science, Dpt. of Geoinformatics</i></p>
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<p>P0128 Soil invertebrates as bioindicators of biodiversity support in urban agriculture Baptiste Grard¹, Claire Chenu¹, Apolline Auclerc¹, Laure Vieublé¹, Antoine Lagneau², Sophie Joimel¹ ¹<i>UMR ECOSYS (AgroParisTech - INRA)</i> ²<i>Agence Régionale de la Biodiversité, département de l'Institut d'Aménagement et d'Urbanisme</i></p>
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P0154 Land-use change in oil palm dominated tropical landscapes - An agent-based model to explore ecological and socio-economic trade-offs Jan Salecker ¹ , Claudia Dislich ^{1,2} , Elisabeth Hettig ^{3,1} , Jann Lay ^{3,1} , Katrin Meyer ¹ , Kerstin Wiegand ¹ ¹ <i>University of Goettingen</i> ² <i>UFZ - Helmholtz Centre for Environmental Research</i> ³ <i>GIGA German Institute of Global and Area Studies</i>

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P0132 Grazing and fire on the reversibility and management of woody shrub encroachment: A modeling approach Junran Li ¹ , Guan Wang ¹ , Ravi Sujith ² ¹ <i>The University of Tulsa, OK, USA</i> ² <i>Temple University, PA, USA</i>
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P0142 Historical floras: a cultural heritage and a data source to detect past landscape features. A case study from late 19th century (Bologna, northern Italy) Giovanna Pezzi ¹ , Alessandro Alessandrini ² , Enrico Muzzi ³ , Fabrizio Buldrini ¹ ¹ <i>Department of Biological, Geological and Environmental Sciences, Università di Bologna</i> ² <i>Istituto per i beni artistici, culturali e naturali - Regione Emilia-Romagna</i> ³ <i>Department of Agricultural and Food Sciences, Università di Bologna</i>
P0181 The influence of land abandonment on disturbance regimes of forest ecosystems: a review Giulia Mantero ¹ , Donato Morresi ¹ , Renzo Motta ¹ , Raffaella Marzano ¹ , David Mladenoff ² , Matteo Garbarino ¹ ¹ <i>Università di Torino (DISAFA)</i> ² <i>University of Wisconsin, Madison</i>
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P0126 Analysis of changes in forest habitat connectivity in the disaster damaged Sendai Bay area of northeast Japan Hidetake Hirayama ¹ Mizuki Tomita ² Keitarou Hara ^{2,1} <i>Graduate School of Tokyo University of Information Sciences²Department of Informatics, Tokyo University of Information Sciences</i>
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P0168 A comparative landscape genetic approach to assessing landscape effects on agricultural native bees in Alberta, Canada Celia Hein ¹ , Cameron Carlyle ² , Jessamyn Manson ³ , Paul Galpern ⁴ , Helene Wagner ¹ <i>¹University of Toronto Mississauga ²University of Alberta ³University of Virginia ⁴University of Calgary</i>
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<i>and Renewable Forest Resources, University of Ljubljana,³e-GEO, Research Centre for Geography and Regional Planning, Faculdade de Ciências Sociais e Humanas, Universidade Nova de Lisboa, ⁴Departamento de Paisagem, Ambiente e Ordenamento, Escola de Ciências e Tecnologia, Instituto de Ciências Agrárias e Ambientais Mediterrânicas, Instituto de Investigação e Formação Avançada, Universidade de Évora</i>
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T0351 Carbon Quantification in a Mining Forest towards Valuing Ecosystem Services Elenita Racelis ¹ , Diomedes Racelis ² ¹ <i>TREES, College of Forestry and Natural Resources, University of the Philippines Los Banos</i> , ² <i>IRNR, College of Forestry and Natural Resources, University of the Philippines Los Banos</i>
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P0192 Socio-ecological perspective on prioritising semi-natural grassland restoration sites and actions: the experience of LIFE project GrassLIFE (Latvia) Solvita Rūsiņa ¹ , Ainārs Auniņš ² , Andrejs Briedis ³ , Lauma Gustiņa ¹ , Inga Račinska ³ , Baiba Strazdiņa ³ ¹ <i>Faculty of Geography and Earth Sciences, University of Latvia</i> , ² <i>Faculty of Biology, University of Latvia</i> , ³ <i>Latvian Fund for Nature</i>

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P_0225 An Integrated Geographic Information System for the conservation of biodiversity on Mediterranean coastal dunes. The case of CALLIOPE (LIFE17-NAT_IT_000565) Maria Laura Carranza ¹ , Ludovico Frate ¹ , Irene Prisco ¹ , Flavio Marzialetti ¹ , Angela Stansici ¹ , Maria Carla Di Francesco ¹ <i>University of Molise/ Dip BiT/ EnvixLab</i>
P_8189 Wetlands changes in the landscape of lowlands and uplands of the Czech Republic over the last 180 years. Pavel Richter ¹ , Tomáš Fojtík ¹ , Jan Skaloš ^{2,1} <i>T. G. Masaryk Water Research Institute, public research institution, Branch of Water Protection and Informatics, Podbabská 2582/30, Prague 160 00, Czech Republic, ²Czech University of Life Sciences, Faculty of Environmental Sciences, Kamýcká 1176, Prague 165 21, Czech Republic</i>
P0096 Utilization of mangroves in Grand-Popo District, a hotspot of mangroves in Benin, West-Africa Constant Gnansounou ¹ , Mireille Toyi ² , Valère Salako ¹ , Oscar Ahossou ² , Jean Didier Akpona ¹ , Achille Assogbadjo ^{2,1} <i>Laboratoire de Biomathématiques et d'Estimations Forestières, ²Laboratory of Applied Ecology</i>
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P0118 On the distribution of soil C, N, P in the salination-affected plant communities of the Yellow River Delta, China Shuying Jiao ¹ , Junran Li ² , Yongqiang Li ¹ , Ye Li ¹ , Zixu Zhang ¹ , Baishu Kong ¹ ¹ College of Resources and Environment, National Engineering Laboratory for Efficient Utilization of Soil and Fertilizer Resources, Shandong Agricultural University, Tai'an, Shandong 271018, China, ² Department of Geosciences, the University of Tulsa, Tulsa, OK 74104
P0123 Demo-genetic modeling of the effect of forest fragmentation on plant population viability: parameterizing a HexSim model with 10 years of field data Adam Hadley ¹ , Madeleine Oman ¹ , Matthew Betts ² , Helene Wagner ¹ ¹ University of Toronto ² Oregon State University
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P0199 Integrated Biodiversity Conservation and Carbon Sequestration in the Changing Environment (IBC-CARBON) Anu Akujärvi ¹ , Irina Bergström ¹ , Martin Forsius ¹ , Francesco Minunno ² , Annikki Mäkelä ² , Risto K. Heikkinen ¹ ¹ Finnish Environment Institute, ² University of Helsinki
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¹ Department of Civil and Environmental Engineering, Graduate School of Advanced Technology and Science, Tokushima University, ² Research Center for Management of Disaster and Environment, Tokushima University
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Symposium 02 - From conservation priority area to ecological security pattern. Jian Peng, Jeroen Meersmans *Day Tuesday 2th Room U6-1c*

Symposium 03 - Integrating food systems into landscape research. Maria Garcia-Martin, Tobias Plieninger, Mario Torralba *Day Thursday 4th Room U6-07*

Symposium 04 - Reconstructing past landscapes to simulate future sustainable scenarios through multidisciplinary approaches. Rebecca Kariuki, Colin Courtney-Mustaphi, Claudia Capitani *Day Thursday 4th Room U6-1d*

Symposium 05 - The ecological role of sound in terrestrial and aquatic landscapes: theories, methods and application of ecoacoustics. Almo Farina, Susan Fuller, Sandra Muller, Alice Eldridge, Gianni Pavan *Day Thursday 4th Room U6-1b*

Symposium 07 - Anthropocene or Urbanocene? The need of a new theory of global sustainability, including urban metabolism. Massimo Palme, Luis Inostroza, Daniele La Rosa *Day Friday 5th Room U6-1c*

Symposium 08 - Towards a 'traits' framework that is both ecologically and socio-culturally relevant: Functional traits beyond life history characteristics. Join a discussion on theory and application. Erik Andersson, Dagmar Haase, Timon McPhearson, Johannes Langemeyer *Day Tuesday 2th Room U6-1d*

Symposium 09 - Scoping with future challenges in mountain landscapes. Uta Schirpke, Ulrike Tappeiner, Georg Leitinger *Day Tuesday 2th Room U6-04 Aula Martini*

Symposium 10 - Using landscape simulation models to help balance conflicting goals in a changing forest: from timber production to carbon sequestration and biodiversity conservation. Anouschka Hof, Miguel Montoro Girona, Caren Dymond *Day Tuesday 2th Room U6-03*

Symposium 11 - From urban agriculture to edible cities – challenges and chances for approaching sustainable urban socio-ecological systems. Martina Artmann, Jan Vávra, Rommel Marius *Day Tuesday 2th Room U6-08*

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Symposium 13 - Addressing the challenges of the Anthropocene with strategic planning: novel ways to couple ecological sciences and territorial governance. Hersperger Anna M., Grădinaru Simona R., Pierri Daunt Beatriz *Day Tuesday 2th Room U6-07*

Symposium 14 - Linking natural and anthropogenic forces: landscape pattern and processes in global urbanized deltas and lowlands. Zhifeng Wu, Paolo Tarolli, Xiuzhen Li *Day Tuesday 2th Room U6-18*

Symposium 15 -Toward a landscape-scale management of large carnivores in human-dominated areas. Olivia Dondina, Valerio Orioli, Alberto Meriggi *Day Friday 5th Room U6-05*

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Symposium 26 - Application of novel remote sensing data and techniques to habitat and biological assessments. Bronwyn Price, Christian Ginzler, Janine Bolliger [Day Thursday 4th Room U6-09](#)

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Symposium 28 - Forest disturbances as drivers of tree species range shifts under global change. Juha Honkaniemi, Brian Buma [Day Friday 5th Room U6-02](#)

Symposium 29 - Good anthropocene practices in contributing landscape ecology. Discourses and perspectives on governance process towards resilience and adaptation of complex systems. Angela Colucci, Emma Puerari, Luca Sára Bródy [Day Friday 5th Room U6-08](#)

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Symposium 32 - Past, present, and future resilience of forest landscapes: Unpacking effects of multi-scale climate change. Rupert Seidl, Winslow D. Hansen [Day Friday 5th Room U6-1e](#)

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Symposium 36 - The importance of coppice forests for landscape diversity and the factors influencing the proportion and distribution of young growth stages. Debbie Bartlett, Valeriu-Norocel Nicolescu [Day Thursday 4th Room U6-1e](#)

Symposium 38 - 3-D landscape metrics and visualization techniques - applications in spatial planning, environmental assessment and participatory decision processes. Christine Furst, Mihai Stupariu, Ileana Stupariu [Day Friday 5th Room U6-06](#)

Symposium 39 - The design of the contemporary cities through a green and blue infrastructure for Ecosystem services provision. Silvia Ronchi, Andrea Arcidiacono, Angela Colucci [Day Tuesday 2th Room U6-1a](#)

Symposium 40 - Challenge and opportunity in the creation of bee landscapes. Sabine van Rooij, Eveliene Steingrover, Arjen de Groot, Lawrence Jones-Walters [Day Thursday 4th Room U6-08](#)

Symposium 41 - Ecology, water and the city: strengthening water-sensitive planning with Nature-Based Solutions in urban contexts. Daniele La Rosa, Raffaele Pelorosso [Day Friday 5th Room U6-07](#)

Symposium 42 - Landscape monitoring: best practices and new developments for an integrated assessment of landscape change. Flurina Wartmann, Felix Kienast, Marcel Hunziker [Day Thursday 4th Room U6-03](#)

Symposium 43 - Planning with nature for sustainable landscape development: lessons-learned from around the world. Christian Albert, Zhifang Wang [Day Friday 5th Room U6-04 Aula Martini](#)

Symposium 45 - Conservation in the city. Heather Sander [Day Tuesday 2th Room U6-06](#)

Symposium 46 - Landscape trajectories during the long Anthropocene: dialogues between ecology and archaeology. Giuseppe Bazan, Angelo Castrorao Barba [Day Thursday 4th Room U6-12](#)

Symposium 47 - Biophysical Methods for the Quantification, Mapping and Assessment of Ecosystem Services. Bastian Steinhoff-Knopp, Benjamin Burkhard [Day Friday 5th Room U6-03](#)

Symposium 48 (together with 22) - The role of landscape experiments to inform large-scale habitat restoration. Kevin Watts, Kirsty Park, Elisa Fuentes-Montemayor [Day Tuesday 2th Room U6-09](#)

Symposium 49 - Challenges for subterranean landscape conservation in the world's karst regions. Claudia Canedoli, Chris Groves, Emilio Padoa-Schioppa [Day Thursday 4th Room U6-07](#)

Symposium 50 - Disturbance, degradation, and restoration in fragile ecosystems: Implications for resource distribution and ecosystem service. Junran Li, Sujith Ravi, Shiliang Liu, Yihe Lv [Day Tuesday 2th Room U6-05](#)

Symposium 51 - Modeling the structure and functioning of forest landscapes under changing climate and disturbance regimes. Giorgio Vacchiano, Heike Lischke, Paola Mairota, Rupert Seidl [Day Thursday 4th Room U6-1f](#)

Symposium 52 - Urban Sprawl: From Measurement to Management. Jochen Jaeger [Day Thursday 4th Room U6-1d](#)

Symposium 53 - Policy and governance innovation in agricultural landscapes: recent trends and future pathways towards enhanced sustainability and food security. José Muñoz-Rojas, Teresa Pinto-Correia, Rafael Mata-Olmo, Isabel Loupa-Ramos, Lone Kristensen [Day Tuesday 2th Room U6-1b](#)

Symposium 55 - Assessing the patterns and drivers of land-use intensity change. Robert Pazur, Matthias Bürgi, Alexander Prishchepov [Day Tuesday 2th Room U6-12](#)

Symposium 56 - Biodiversity spillover in fragmented landscapes and effects on ecosystem services provision and regulation. Andrea Larissa Boesing, Paula Ribeiro Prist [Day Tuesday 2th Room U6-1b](#)

Symposium 57 - Green Infrastructure as a way to rethink Ecological Landscape Planning. Camila Sant' Anna, Maria do Carmo De Lima Bezerra [Day Friday 5th Room U6-09](#)

Symposium 58 - Urbanisation. Concepts, methods and spatially explicit indicators. Luis Inostroza, Steward Pickett [Day Thursday 4th Room U6-18](#)

Symposium 59 - Understanding the capacity of Landscape connectivity and ecosystem integrity to supply multiple ecosystem services: insights into sustainable landscapes. Luque Sandra, Le Louarn Marine, van Dijk Jiska [Day Thursday 4th Room U6-04](#)

Symposium 60 - Implementing the Green Infrastructure Approach in Central Europe and beyond. Marco Neubert, Thomas Wrbka, Hana Skokanova, Henriette John [Day Thursday 4th Room U6-09](#)

Symposium 62 - The European Landscape Convention 20 years after: Achievements, Progresses, and Opportunities. Wei-Ning Xiang, Daniele La Rosa, Christian Albert [Day Thursday 4th Room U6-1b](#)

Symposium 63 – How is landscape ecology shaped by research policies?. Werner Rolf, Isabel Loupa-Ramos, Jonathan Porter, Veerle Van Eetvelde, Wenche Dramstad [Day Thursday 4th Room Aula Magna](#)

Symposium 64 - Deciphering environmental gradients in landscapes for a better understanding of biodiversity dynamics. Jacques Baudry, Angela Lausch, Paola Mairota [Day Thursday 4th Room U6-10](#)

Symposium 65 - Innovating teaching and learning landscape ecology to address the challenges of the Anthropocene. Veerle Van Eetvelde, Simona Grădinaru, Wenche Dramstad, Werner Rolf, Ileana Stupariu [Day Tuesday 2th Room U6-10](#)

Symposium 66 - The landscape approach - key to enhance sustainable land use in Europe and North-America as well? Bas Pedroli, Wenche Dramstad [Day Thursday 4th Room U6-1e](#)

Symposium 67 - Towards visionary peri-urban landscapes? Environmental governance mixes for sustainable peri-urbanization. Marcin Spyra, Christine Fürst, Tereza Aubrechtova, Alina Schürmann [Day Tuesday 2th Room U6-1e](#)

Symposium 69 - Satellite and UAV (Drone) systems for assessing and monitoring of ecological landscapes of Africa. Moses Azong, Henry Bulley, Jane Bemigisha, Yazidhi Bamutaze, Aniko Polo-Akpisso [Day Thursday 4th Room U6-02](#)

Symposium 70 - Seascape Ecology. Alessandra Savini, Simone Farina, Luca Fallati, Daniele Grech [Day Tuesday 2th Room U6-1f](#)

Symposium 71 - Synergistic Effects of Climate and Management on Biodiversity. Robert Scheller, Matthew Betts, Melissa Lucash [Day Tuesday 2th Room U6-1e](#)

Symposium 72 - Theoretical and practical challenges for planning landscape restoration. Cristian Echeverria [Day Thursday 4th Room U6-04](#)

Symposium 73 – Social theory and landscape ecology – Interpreting, explaining and modelling landscape management practices and decision-making in the Anthropocene. Andreas Aagaard Christensen, Veerle Van Eetvelde, Anna Hersperger, Terry Marsden, Matthias Buchecker [Day Friday 5th Room U6-10](#)

Symposium 74 - Biocultural Landscapes During the Anthropocene. Inocencio Jr. Buot, Regan Leonardus Kaswanto [Day Thursday 4th Room U6-06](#)

Session Anthropogenic Landscapes

[Day Tuesday 2th Room U6-1d](#)

Session Biodiversity Conservation

[Day Tuesday 2th Room U6-03](#)

Session Dynamic and Disturbances in Landscapes

Day Friday 5th Room U6-1f

Session Habitat Fragmentation and Landscape Connectivity

Day Tuesday 2th Room U6-08

Session Landscape Metrics

Day Thursday 4th Room U6-1c

Session Public Participation

Day Friday 5th Room U6-18

Session Remote Sensing and Landscape Ecology

Day Friday 5th Room U6-1a

Session Soil, Vegetation and Biodiversity

Day Friday 5th Room U6-12

Session Urban Forestry

Day Tuesday 2th Room U6-09

Session Urban Planning

Day Thursday 4th Room U6-1f

MONDAY 1 st JULY, 2019																			
ROOM ->	Aula Magna	U6-02	U6-03	Aula Martini (U6-04)	U6-05	U6-06	U6-07	U6-08	U6-09	U6-10	U6-12	U6-13	U6-1a	U6-1b	U6-1c	U6-1d	U6-1e	U6-1f	U6-18
Morning 10:30-14:00									SIEP-IALE General assembly			Biocultural landscapes WG (12:00-14:00)			IALE COUNCIL (13:00-14:00)				
Morning 11:30-14:30/	Registration opening																		
Afternoon 14:30-15:00	Official congress opening																		
Afternoon 15:00-15:45	Plenary 1 Nagendra																		
15:45-16:15	COFFEE BREAK																		
Afternoon 16:15-17:00	Plenary 2 Ellis																		
Afternoon 17:00-18:30	Opening ceremony IALE																		
18:30-19:00	Poster session 1																		
18:00-19:00	APERITIF																		

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THURSDAY 4th JULY, 2019

ROOM ->	Aula Magna	U6-02	U6-03	Aula Martini (U6-04)	U6-05	U6-06	U6-07	U6-08	U6-09	U6-10	U6-12	U6-13	U6-1a	U6-1b	U6-1c	U6-1d	U6-1e	U6-1f	U6-18
Morning 08:30 - 10:00	Plenary																		
10:00 - 10:30	COFFEE BREAK																		
Morning 10:30 - 12:30/12.45	Symp 19	Symp 30	Symp 42	Symp 59	Symp 18	Symp 74	Symp 49	Symp 40	Symp 26	Symp 24	Symp 46	Symp 58	Symp 16	Symp05	Session Landscape metrics	Symp 04	Symp 66	Session Urban planning	
12:30 - 14:00	LUNCH																		
Afternoon 14:00 - 15:30	Symp 63	Symp 69	Symp 42	Symp 72	Symp 18	Symp 74	Symp 03	Symp 12	Symp 60	Symp 64	Symp 46	Symp 01	Symp05			Symp 52	Symp 66	Symp 51	
15:30 - 16:00	COFFEE BREAK																		
Afternoon 16:00 - 17:30/17.45	Symp 63		Symp 42		Symp 18	Symp 31	Symp 03	Symp 12	Symp 60	Symp 64		Symp 01	Symp 62		Symp 52	Symp 36	Symp 51		
17:30 - 18:30	Poster session 3																		
Other events								FALE Europe Meeting (17:30 -18:45)											
19:30	SOCIAL DINNER (At ALCATRAZ - Preservation required)																		

FRIDAY 5th JULY, 2019

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