



iale BULLETIN

INTERNATIONAL ASSOCIATION FOR LANDSCAPE ECOLOGY

Dear IALE Members,

After a very much needed restful holiday break with our families and friends, many of us returned to work with recharged energy. I hope you also enjoy the landscape changes resulting from the change of the seasons, either from winter to spring in the northern hemisphere or from summer to fall in the southern hemisphere.

I am honored to introduce 7 distinguished leaders in the field of Landscape Ecology (LE) who have kindly agreed to serve the inaugural the Scientific Advisory Board (SAB) of IALE: Matthias Bürgi, Graeme S. Cumming, Cristian Echeverria, Joern Fischer, Monica G. Turner, Kimberly A. With, and Jianguo (Jingle) Wu. Please see the photos, brief bios and websites of these distinguished scholars in this Bulletin. The SAB of IALE is set to increase the scientific rigor and the visibility of the LE discipline. The first SAB meeting is scheduled at the end of March, and we will keep the whole community posted for the outcomes of the meeting.

As many of you are aware that as of January 2024, Springer Nature is proud to offer active IALE members a 50% discount off the article processing charge of their paper which has been accepted by Landscape Ecology, an open access journal. Please check the IALE website for details on how it works.

I am also delighted to update you that four chapters across the globe (Chile, India, Japan, New Zealand) have submitted proposals to host the 12th World Congress (WC) of IALE. We are very thankful to these chapters who have put the considerable time and effort to prepare WC proposals. We are excited to announce that the cities of Valparaíso and Viña del Mar, Chile were elected by the Executive Committee to host the 2027's World Congress of IALE.

I also would like to update our members that we have received funding requests of a total amount of €24908 from chapters and working groups who responded to the "Competitive call to support for IALE Chapter and Working Groups for 2024." All requests were reviewed and evaluated in January 2024. The EC allocated the fundings (a total of €14000) to the following recipients with their proposed activities in 2024:

- North American Chapter, support 2 additional foreign scholar award recipients to attend the annual meeting of IALE-NA, €2000
- Indian Regional Chapter, support the annual meeting of the chapter, €2000

- European Chapter, support meeting attendance of early career scholars and scholars from low-income countries attending an IALE-Europe seminar, €2000
- Italian Chapter, support the global and regional participation of a hybrid conference on the conservation of trees in urban landscape at the National History Museum of Milan, €2000
- Chilean Chapter, support communication improvement, €1500
- Portuguese Chapter, support students' travel and training at the 2024 Iberian Congress of Landscape Ecology, €1500
- IALE-Biocultural Working Group, support two workshops and student training at the workshops on biocultural networks, €1500
- IALE-Historical LE working Group, organize joint session of IALE and International Association of Landscape Archeology (IALA) at Conference of Landscape Archeology 2024, €1500

I appreciate your continuous support of IALE and wish you all the best!

Peilei Fan
IALE President

March 18, 2024

IALE Scientific Advisory Board (SAB) Members

Matthias Bürgi Swiss Federal Research Institute WSL, Switzerland



Dr. Matthias Bürgi is interested in the historical dynamics of the interdependence of society and the environment and how this is expressed in changes to ecosystems and landscapes. He is head of the Land Change Science research unit at the Swiss Federal Research Institute WSL in Birmensdorf, Switzerland, and teaches "Landscape History" at the Department of Geography at the University of Bern, Switzerland. Website: www.wsl.ch/de/mitarbeitende/buergim/

Graeme S. Cumming James Cook University, Townsville, QLD, Australia



Dr. Graeme Cumming is a Professor and Premier's Science Fellow at the Oceans Institute of the University of Western Australia. He has a wide range of interests, centering around understanding spatial aspects of ecology and the relevance of broad-scale pattern-process dynamics for ecosystem (and social-ecological system) function and resilience. Graeme's current research focus is on understanding the geography and sustainability of protected areas (broadly defined) and the ecosystem services they support. Website: www.research-repository.uwa.edu.au/en/persons/graeme-cumming

Cristian Echeverria Universidad de Concepción, Chile



Cristian Echeverria is a forest engineer with a Master of Science degree from the Universidad Austral de Chile and a Master in Philosophy and Ph.D. from the University of Cambridge, UK. He is currently a full professor at the Faculty of Forestry Sciences, Universidad de Concepción. He is director of the Landscape Ecology Laboratory and is also director of the

institutional project Campus Naturaleza at the Universidad de Concepción. He was co-founder and president of IALE Chile, and currently is vice-president of IALE global. His research focuses on landscape sustainability, quantification and mapping of ecosystem services, conservation planning, biodiversity conservation, and ecosystem and landscape restoration. He is an associate editor for Landscape Ecology Journal and editor for Springer Landscape Series. He is a member of UICN Species Survival Commission Tree Specialists and advisor for multiple government policies of environmental importance. Website: www.lep.udec.cl/

Joern Fischer Leuphana University, Germany



Dr. Joern Fischer is professor of 'sustainable landscapes' at Leuphana University of Lueneburg, Germany. He has worked in and led interdisciplinary projects on landscape sustainability in Australia, Europe and Africa. He has a background in ecology, but most of his present work is grounded in social-ecological systems theory. Website: www.leuphana.de/en/institutes/sesi/team/joern-fischer.html

Monica G. Turner University of Wisconsin-Madison, USA



Dr. Monica G. Turner is the Eugene P. Odum Professor of Ecology and a Vilas Research Professor in the Department of Integrative Biology, University of Wisconsin-Madison. Her research emphasizes causes and consequences of spatial heterogeneity in ecological systems, focusing primarily on ecosystem and landscape ecology. She has studied fire, vegetation dynamics, nutrient cycling, bark beetle outbreaks, and climate change in Greater Yellowstone for over 25 years, including long-term research on the 1988 Yellowstone fires. She also studies abrupt change in ecological systems, land-water interactions in Wisconsin landscapes, and spatial dynamics of ecosystem services. She has published ~ 250 scientific papers and

authored or edited six books. She earned her BS in Biology from Fordham University and her PhD in Ecology from the University of Georgia. Turner is a past-president of the Ecological Society of America (ESA), a recipient of ESA's Robert H. MacArthur Award, and a member of the National Academy of Sciences. Website: www.turnerlab.ibio.wisc.edu/

Kimberly A. With Kansas State University, USA



Dr. Kimberly With is a Professor in the Division of Biology at Kansas State University, where she teaches a graduate course in landscape ecology and an upper-level undergraduate course in conservation biology. Her research has largely focused on understanding how habitat loss, fragmentation and land-use practices affect population and landscape connectivity, species extinction risk, invasive spread, species interactions and community structure, using a combination of theoretical modelling, experimental, and field-based approaches. She is the current President of IALE-North America and has previously been recognized by this regional chapter as a Distinguished Landscape Ecologist (2016) and with two Outstanding Paper Awards (1996, 2002) for her research contributions to the field. She is also the author of the textbook, Principles of Landscape Ecology, published by Oxford University Press (2019). Website: www.withlab.weebly.com/

Jianguo (Jingle) Wu Arizona State University, USA



Dr. Jianguo (Jingle) Wu is Dean's Distinguished Professor of Landscape Ecology and Sustainability Science in School of Life Sciences and School of Sustainability, Arizona State University. His research areas include landscape ecology, urban ecology, and landscape sustainability science (www.scholar.google.com/citations?user=tDmLtlUAAAAAJ&hl=en). He has been the Editor-in-Chief of Landscape Ecology & Sustainability Lab (LESL) www.l eml.asu.edu/jingle/index.html.

Updates from IALE chapters

News from IALE-Europe: IALE 2025 European Landscape Ecology Congress!!

The IALE 2025 European Landscape Ecology Congress will take place in Bratislava, Slovakia on 2-5 September 2025.

The Congress will be an important opportunity for the landscape ecology community across Europe and beyond to meet, discuss and exchange experiences. The congress aims to connect researchers, experts from all disciplines related to landscape, students, decision-makers, practitioners and other stakeholders interested.

Landscapes are changing all the time and changes are inherent to landscapes. Alongside widely acknowledged drivers of landscape change such as demographic changes, urbanization, climate change, and European and local policies, other drivers have recently emerged. The COVID-19 pandemic, the steep rise of artificial intelligence and digitalization, armed conflicts in our neighborhoods, the energy crisis and the economic recession

have all unfolded in a rather short period of time. These events operate on broad spatial scales, or even globally, and they all have direct or indirect impact on the landscape. Additionally, they brought a greater degree of uncertainty in predicting future landscape developments and new challenges, including challenges for conceptual, methodological and application aspects of landscape ecology. Furthermore, a new challenge and maybe even an opportunity for professional teams and individuals from the field of landscape research is the use of artificial intelligence in landscape planning and in searching for solutions to landscape-related problems.

The IALE 2025 European Landscape Ecology Congress aims to address landscape perspectives in today's rapidly changing world. It will focus on the role of landscape ecology in reflecting these changes, studying them, and predicting their impacts

on both landscapes and society. It will delve into implications of these changes for future landscape development and sustainability.

Therefore, we invite landscape ecologists from Europe and beyond to explore and discuss these issues together. Please save the date and help distribute this initial information to colleagues and other potential attendees.

The IALE 2025 European Landscape Ecology Congress is organized by Institute of Landscape Ecology SAS and Faculty of Natural Sciences of the Comenius University Bratislava in partnership with European and Czech Republic Associations for Landscape Ecology (IALE-Europe and IALE-CZ).

Further information will be provided in the following issue of the IALE Bulletin.

For more information please contact *Luboš Halada* (iale2025@savba.sk)

An update from IRALE (India IALE) Conference 2024:

Sustaining Landscapes in the Anthropocene

Click [here](#) for the full IRALE Newsletter.

The Indian Regional Association for Landscape Ecology (IRALE), a Regional Chapter of the International Association of Landscape Ecology (IALE), hosted an in-person conference from 21-23 February 2024, amidst the picturesque landscape of Murti in the Jalpaiguri district of West Bengal, India. The conference was hosted by Jadavpur University, Kolkata in collaboration with the National Institute for Himalayan Environment (NIHE); the Association for Tropical Biology and Conservation – Asia Pacific Chapter (ATBC-AP); and Conservation Initiatives, a Non-Government Organization, working in the region. The theme the 2024 conference was 'Sustaining Landscapes in the Anthropocene' with three sub-themes, namely, Landscape Concepts and Innovations; Landscape Governance and Practices; and Biogeography and Eco-regions.

The conference successfully showcased a series of diverse studies and robust

frameworks that demonstrated how landscape ecology could provide operational solutions towards sustainable management of landscapes in India. The conference, with over 90 participants, brought together experts, scholars, students, resource managers, public representatives, practitioners, and learners from interdisciplinary fields. During the inauguration session on 21st March 2024, Mr. Rajah Banerjee, Chairman of Rimpocha and Mr. Pramod Chand Lakra, Indian Forest Service Officer delivered inspiring speeches. Dr. Ramesh Krishnamurthy, President of IRALE; Dr. PV Karunakaran, Vice-President of IRALE; Dr. Debajit Datta, Conference Chair; and Ms. Sohini Neogy, Conference Coordinator were a part of the inaugural session. The conference included keynote speeches by Prof. Dolores Armenteras from IALE, Dr. Divya Vasudev from Conservation Initiatives, Dr. Jagdish Krishnaswamy from the Indian Institute of Human Settlements, Dr. Shalini Dhyani from the IUCN Commission on Ecosystem Management and Prof. Benjamin Burkhard,

Secretary General of IALE. During the conference, a special session on the Northeast Himalayan Ecosystem was coordinated by Dr. Rajesh Joshi of NIHE and this had several eminent academicians, experts, and practitioners from the region, namely Prof. SPS Kushwaha, Dr. JC Kuniyal, Dr. Sudip Mitra, Dr. Sabyasachi Dasgupta and others. This was followed by thematic sessions on 1) One Health by Dr. Aditi Sharma, Coordinator of ATBC-AP One Health Working Group, and 2) on Landscape Management by Dr. Divya Vasudev of Conservation Initiatives. Simultaneously, the pre-conference workshops conducted by Dr. Kalloli Dutta, Independent Researcher, focused on promoting gender equality in the context of climate change, and another hands-on session led by Dr. Mriganka Shekhar Sarkar, Scientist, NIHE, was all about species distribution modeling using relevant software.

An array of highly engaging technical sessions and poster presentations took place over two days under the different sub-themes of the conference. A post-conference

excursion to Jatraprasad watchtower was arranged and the participants thoroughly embraced the view of the forest wilderness, the naturalscape, and the rivulets naturally flowing through the Gorumara National Park. The conference concluded on the note that IRALE, through such conference, would focus on specific landscapes through activating landscape-specific working groups. Also, a convergence of ideas and actions can be taken up as pilot demonstration projects, involving all

stakeholders. As an organization, IRALE has passed quite a few milestones and this year, in addition to the conference, it has launched the 'Avinandan Landscape Ornithology Award' to support research, training/awareness and community-based conservation related to birds and their habitats. It was decided that the conference should rotate across India, and accordingly, the 2025 IRALE Conference would possibly be located in Central India, in collaboration with partners and stakeholders.

News from IALE-Spain

IALE-España together with IALE-Portugal has regularly organized the Iberian IALE meeting every two years since 2016. The VI Conference on Landscape Ecology under the theme Iberian landscapes, separate but concordant. Beyond the cross-border approach will take place in Bragança (Portugal), 19-21 June. More information at www.apep.pt/eventos-e-formacoes/vi_ciep2024/.

The Landscape Ecology Collection Landscape Ecology and Landscape Approaches in the Iberian context: challenges, opportunities and future prospects is almost ready, and all articles are already available online (www.link.springer.com/collections/gcfbgdeeca). It has had a remarkable participation, with contributions that provide an overview of the main lines of research regarding the particular characteristics and problems of this territory.



Landscape in northern Spain - Photo credit Antonio Gómez Sal



News from IALE-UK

ialeUK had a busy and varied year in 2023. Building on the experience of trying to keep the landscape ecology community together during the Covid pandemic, our Landscape Connections (www.iale.uk/landscape-connections) series of webinars has continued to provide a focused but informal venue for sharing knowledge, ideas and updates in the field of landscape ecology

(recording available via the link above). Our annual meeting took a hybrid form, with the annual Bunce Lecture given online by Teresa Pinto-Correia, presenting a European perspective on agroforestry, followed by a panel discussion with experts from across Great Britain. The following day ialeUK members and guests attended a field visit to an agroforestry project.

Continuing the tree focus, postgraduate and early career members enjoyed an in-person field workshop on woodland creation and tree planting in Wales. Reports from these and other events are included in our Newsletters (www.iale.uk/newsletter) alongside regular features such as 'a day in the life' which highlights landscape ecology careers.



IALE-UK Post-graduate field trip! Photo credit: Caitlin Lewis

Update from working groups

“Urban and peri-urban governance” Working group notable publication:
www.sciencedirect.com/science/article/pii/S0264837723003150

The paper by Janina Kleeman, Berenike Struve, Marcin Spyra entitled "Conflicts in urban peripheries in Europe" provides some insights about how to mitigate conflicts in urban peripheries. As we know, conflict solving stands in the middle of any governance and planning activities / processes, related not only to urban, but also peri-urban and non-androgenized landscapes. Conflict mitigation is particularly important now, in the times of strong societal polarization.



Notable Publications

Here is the latest publication from the team of the Center for responsible use of natural resources of the Institute of Geography of the Russian Academy of Sciences, headed by Dr. Evgeny A. Shvarts.

The IALE China chapter has been very busy publishing! For a summary of these books and papers, click [here](#). The publications include:

- Landscape Ecology Discipline Roadmap, Edited by Jian Peng.
- Yu, Z., Yang, G., Lin, T., Zhao, B., Xu, Y., Yao, X., ... & Jiang, B. (2024). Exposure ecology drives a unified understanding of nexus of natural ecosystem, exposure and health. Ecosystem Health and Sustainability.

DOI: 10.34133/ehs.0165

- Chen, B., Kong, F., Meadows, M. E., Pan, H., Zhu, A. X., Chen, L., ... & Yang, L. (2024). The evolution of social-ecological system interactions and their impact on the urban thermal environment. *npj Urban Sustainability*, 4(1), 3.
- Zhong, J., Liang, C., Zhao, Y., Wang, Y., & Yan, X. (2024). Identifying loss threshold and migration trajectory in the management of Suaeda salsa wetland under coastal squeeze. *Marine Environmental Research*, 194, 106329.
- Li, X., Zhang, N., Zhang, A., Tang, J., Li, Z., & Nie, Z. (2024). Changes in grassland vegetation based on spatiotemporal

variation in vegetation growth and spatial configuration dynamics of bare lands. *Ecological Informatics*, 80, 102473.

- Zhang, N., Li, Z., Feng, Y., Li, X., & Tang, J. (2023). Development and application of a vegetation degradation classification approach for the temperate grasslands of northern China. *Ecological Indicators*, 154, 110857.
- Feng, C., Zhang, N., Habiakare, T., & Yu, H. (2023). Development of a cellular automata-based distributed hydrological model for simulating urban surface runoff. *Journal of Hydrology*, 627, 130348.



The IALE Bulletin is distributed several times a year to the members of IALE. IALE - the International Association for Landscape Ecology was founded in 1982 to promote communication between scientists, planners and interdisciplinary scientific research.

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IALE International on the Internet:
www.landscape-ecology.org

Bulletin Deadline

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PLEASE: Send your contributions to the Bulletin Editor **Amélie Davis**:

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