

iale BULLETIN

INTERNATIONAL ASSOCIATION FOR LANDSCAPE ECOLOGY

Dear IALE Community,

Time flies. Just a moment ago the snow was melting on my doorstep, the semester was beginning and now I am looking out of my home office window at a hot and rainy summer in Central Europe - a change after two years of drought that led to catastrophic rainfall here in Germany. At the same time, there was unprecedented heat in Canada and severe forest fires in North America. Phenomena that move societies and that we landscape ecologists address in our research!

Although the IALE Bulletin is less frequent, the monthly newsletter should have reached you and kept you updated. In this bulletin we have collected a number of

news items from the first part of the year: The IALE World Congress will take place in Africa for the first time in 2023 - in Nairobi, Kenya we will meet, exchange ideas, and discuss with each other under the theme "Transboundary Resource Management, Climate Change and Environmental Resilience".

The first best paper award of our flagship journal *Landscape Ecology* goes to Federico Riva and Scott E. Nielsen. In their article „Six key steps for functional landscape analyses of habitat change“ they address an important methodological issue in landscape ecology.

The year 2021 was also an election year

for IALE World - we congratulate Markéta Šantrůčková (Research Institute for Landscape and Horticulture in Czechia) and Weiqi Zhou (State Key Laboratory of Urban and Regional Ecology, Research Center for Eco-Environmental Sciences of the Chinese Academy of Sciences) as new IALE Vice Presidents. Dr Cristian Echevarrias (Faculty of Forest Sciences, University of Concepcion, Chile) will continue for another term as VP.

Read more about these and other topics in this bulletin and please stay healthy!

Bastian Steinhoff-Knopp
IALE Communication Officer



2023 IALE World Congress – Nairobi, Kenya

We are excited to announce the 2023 IALE World Congress will take place in Nairobi, Kenya (see Magical Nairobi), from 10th – 15th, July 2023. The IALE World Congress occurs every four years and is the premier event for landscape ecologists worldwide to address topics in landscape ecology that range from local to global in scale. During the World Congress, landscape ecologists will address a broad spectrum of environmental challenges and their potential solutions. The 2023 World Congress will be a hybrid (online/ in person) event and it is for the first time being hosted in the Global South.

The World Congress theme is *'Transboundary Resource Management, Climate Change and Environmental Resilience'*.

The World Congress will include plenaries, symposium, oral sessions, posters sessions, a social dinner, and field trips. It is jointly hosted by Kenyatta University (KU), Regional Center for Mapping of Resources for Development (RCMRD), National Museum of Kenya (NMK), Institute of Climate Change and Adaptation Institute, University of Nairobi (UON), the United Nations Environment Programme (UNEP) and in collaboration with the African Chapter of IALE (Africa-IALE).

Nairobi is an exceptionally beautiful city. The planned post conference excursions include: Nairobi National Park, Karura Forest Nature trails, The National Museums, Kakamega forest (a remnant

of the vast rain forest that once stretched across all of Central Africa where "Time has stood still") and Watamu Marine National Park and Reserve (a complex of marine and tidal habitats along the Kenya's north coast with rich and diverse bird life, fish, turtles and dugongs). Furthermore, Kenya is well known for the Great Rift Valley. July is an excellent time to visit Kenya because it is the dry season and wildlife will be easier to see.

Watch here for more information soon: www.landscape-ecology.org

The IALE World Congress is being organized by the Local hosting committee (Kenya), Africa-IALE, and IALE World.



↑ The Karura Forest Natural River - destination of a planned post-conference excursion
By Evans Nyawate - Own work, CC BY-SA 4.0, <https://commons.wikimedia.org/w/index.php?curid=91919588>

← A giraffe – in the background: Nairobi
By Alexmbogo - Own work, CC BY-SA 4.0, <https://commons.wikimedia.org/w/index.php?curid=92241476>



IALE Elections 2021 - Results

Dear IALE Community:

We are excited to announce the results of our elections!

IALE World elected three Vice Presidents as members of the Executive Committee from the 7th of April to the 15th of June 2021 through an online voting tool. The IALE members *Cristian Echeverria*, *Ramesh Krishnamurthy*, *Alexander Prishchepov*, *Ian D. Rotherham*, *Markéta Šantrůčková* and *WeiQi Zhou* stood for election on the recommendation of the IALE Nomination Committee (Liding Chen, Cristian Echeverria, Danilo Boscolo, Bryan Pijanowski, Xiuzhen Li, and Werner Rolf (technical aspects)).

We had a good election turnout! There were **814 IALE members in good standing eligible to vote**, each of whom had 3 votes. Ballots were sent by email, Werner Rolf (Technical University of Munich, Germany) kindly provided the voting tool. **256 invited members have responded with 460 votes** (average of 1,8 votes per person, each member had 3 votes).

Our Vice Presidents for 2021-2025 are:

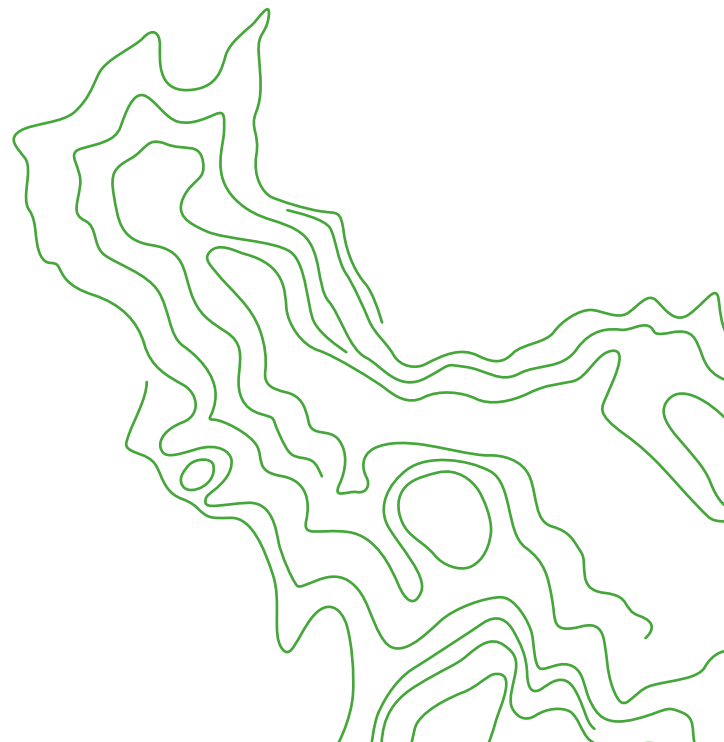
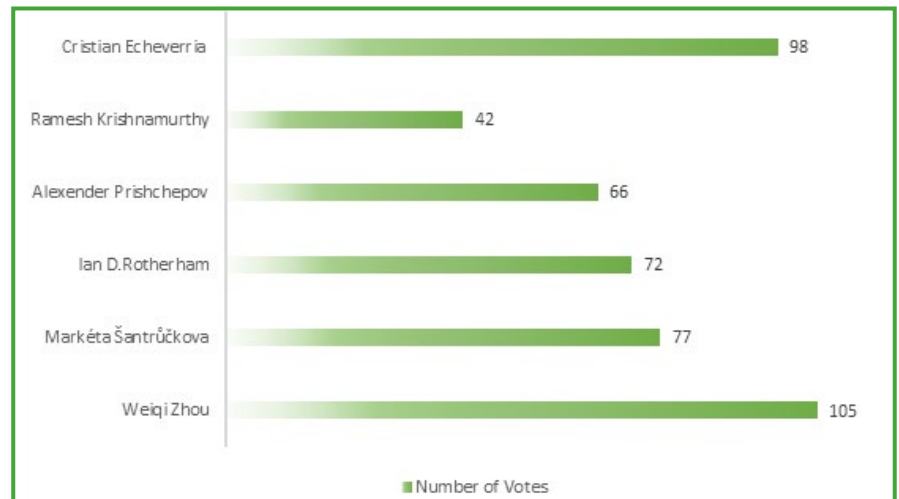
- ***Dr. Markéta Šantrůčková*** (Research Institute for Landscape and Horticulture in Czechia)
- ***Dr. WeiQi Zhou*** (State Key Laboratory of Urban and Regional Ecology, Research Center for Eco-Environmental Sciences of the Chinese Academy of Sciences)
- ***Dr. Cristian Echevarrias*** (Faculty of Forest Sciences, University of Concepcion, Chile) will continue for another term as VP.

Congratulations, all, and welcome!

And a final THANK YOU to our outgoing VPs, *Dr. Liding Chen* (The Research Centre for Eco-Environmental Sciences of the Chinese Academy of Sciences) and *Dr. Sima Fakheran* (Isfahan University of Technology in Isfahan, Iran). Your leadership and commitment to all things landscape ecology will be missed.

Yours,
Robert Scheller, IALE President

Details on the elections



Cristian Echeverria: mission statement as reelected IALE Vice President

I am deeply grateful for the support received from IALE members to be reelected as Vice President for a new term. My work will be focused on: i) developing and strengthening capacity on landscape ecology in Latin American (LA) countries, ii) providing opportunities for academic exchange between LA countries and other regions, with emphasis on students and young researchers, iii) promoting the application of landscape ecology principles in the restoration and conservation of natural resources under a context of global change, and iv) contributing to the scientific discussion of the role of landscape ecology in the sustainability science. My vision is to increase the involvement of LA regional



chapters and other regions in landscape ecology community.

I am deeply convinced that landscape ecology plays a key role in bringing about transformative changes in our society

at local, regional and global scales. The landscape ecology community is fully capable of addressing societal challenges from an integrated and interdisciplinary perspective.

Cristian Echeverria, Forest Engineer, M.Sc., M.Phil., Ph.D. University of Cambridge, is a Professor at the Faculty of Forest Sciences, University of Concepcion, Chile. At present, he is the director of the Landscape Ecology Lab, Native Forest Initiative and former President and founder of IALE-Chile. His research line is related to forest biodiversity conservation, landscape restoration, mapping and assessment of ecosystem services, landscape change and modelling.

Markéta Šantrůčková: Short introduction of my mission IALE Vice-President and Executive Committee member

I am grateful for being elected IALE VP and feel obliged all IALE members to work for them and IALE. I would like to contribute to IALE's mission at the global level and facilitate the discussion about the role of the cultural landscape and the traditional small-scale landscape structures for the landscape ecology, to connect people from different world region and countries. I would like to contribute to create a platform and networking researchers, knowledge, papers and books for studying and discussing questions connected with landscape ecological consequences on the global, national, and local level.

After the discussion with IALE President Robert Scheller I would focus my activities mainly to work in two committees: Working Groups Committee and Diversity and Inclusion Committee. Working groups are important for IALE mission because they network their members on the basis of the similar research interests. The role of the Working Groups Committee is to gather information about IALE Working Groups, enable them to present their activities on IALE web sites and in the newsletter, facilitate organization of sections on IALE World Congress and other



regional conferences, webinars and other activities. Working Groups could also ask for financial support for their activities by IALE. Diversity and Inclusion Committee in the worldwide organization as IALE is play important role by taking in consideration all cultural differences and guarantee that all members and participants on IALE events feel secure and welcome.

The important part of my mission would be also to help with preparation of the 11th IALE World Congress in July 2023 in Nairobi (Kenya).

I am a member of the IALE Historical Landscape Ecology Working Group and the Czech chapter IALE-CZ (secretary 2016–

2020 and chapter president since 2020). As an active IALE member, I am interested in landscape ecology and its role in science and society. I studied geography and history (MSc.) and geography and geoecology (Ph.D.) at the Charles University in Prague. Since 2007, I work as a senior researcher in the Research Institute for Landscape and Horticulture (public research institute) in Průhonice near Prague and I led or collaborated on several projects focused on the cultural landscape, social aspects of landscape ecology and landscape management. I also do several courses for the Faculty of Architecture of the Czech Technical University (Cultural Landscape), the Faculty of Science of the Charles University (Geography of Heritage and Cultural Landscape), and the Faculty of Science of the University of South Bohemia (Management of the Cultural Landscape). In my research I focus on landscape structures created by a man, their diversity, stability/changes, and importance for biodiversity. I aim mainly to historical or traditional small-scale landscape structures connected with traditional and local knowledge and praxis that are endangered by unification or abandonment.

Weiqi Zhou: mission statement as new IALE Vice President

I am honored and delighted to be elected as a Vice President of (VP) the International Association for Landscape Ecology (IALE). I will do my best to serve the IALE community, and to serve as a voice for IALE to disseminate our discipline and ideas to practitioners and policy makers around the globe.

I am a professor of landscape and urban ecology at the State Key Laboratory of Urban and Regional Ecology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences. I am interested in spatial heterogeneity of the landscape. I work across many disciplines including landscape ecology, urban ecology, remote sensing, and GIS, and interact with various collaborators from different fields through my involvement with various collaborative projects. The interdisciplinarity of my work has allowed



me to develop innovative approaches and tools to better understanding the structure of urban socio-ecological systems, and its link to ecological function, and to interact with practitioners and policy makers to help cities like Beijing and Shenzhen accomplish sustainable urban transformations. I have published more than 100 peer-reviewed papers and three books.

It's hoped that my experience in other leadership roles has well prepared myself to be a good VP of IALE. I have long served as a member of the editorial boards for the journals such as Landscape Ecology, Landscape and Urban Planning, and Journal of Urban Ecology. I am a co-leader of the Urban Ecosystem Group of the IUCN Commission on Ecosystem Management. I was a member of the Executive Committee of the China chapter of IALE (IALE-China), and acted as the regional contact of IALE-China for many years.

Again, I am delighted to have the opportunity to serve the IALE community, and am eager to contribute my knowledge and expertise to the Executive Committee of IALE.

2020 Best Article Award of our flagship journal Landscape Ecology

The Best Article Award is awarded annually to the best article published in *Landscape Ecology* in the previous calendar year, starting in 2020. The best article is selected by the Landscape Ecology Editorial Board based on the following criteria:

- **Relevance:** The article's subject matter is immediately relevant to the key topics in landscape ecology;
- **Scientific rigor:** The article has interesting and important research questions clearly articulated, proper methods adequately described and rigorously implemented, and unambiguous conclusions sufficiently supported by results presented;
- **Breakthrough/Innovation:** The article presents a new theoretical and methodological development or ground-breaking findings through innovative applications of landscape ecological principles and methods;
- **Originality and literature:** The article is original in terms of the research reported and shows an adequate awareness of the primary literature immediately relevant to the subject matter;

- **Quality of writing:** The article is well organized and written, with clarity, accuracy, and readability.

The winner receives:

- A voucher for complimentary access to any Springer publication in eBook form (value of 250 Euros/US dollars)
- Article made freely accessible for up to 8 weeks on SpringerLink.

And the 2020 Best Article Award in *Landscape Ecology* goes to...

- **Riva F, Nielsen SE (2020) Six key steps for functional landscape analyses of habitat change. *Landscape Ecology* 35(7):1495-1504.** (the paper was freely accessible until May 19, 2021; still accessible for all IALE Members via landscape-ecology.org)

Federico Riva and Scott E. Nielsen address in their paper a key problem in landscape ecology: the identification of relationships between landscape characteristics and ecological processes. A common approach to identify these relationships is "to rasterize" ecological variables. In doing this

landscape ecologists assume they can catch representative characteristics of ecological processes. In fact, choices made in the design and assessment of rasters affect our findings and understanding of landscape characteristics and ecological responses. To address this problem, the authors propose a six-step framework for informing the choices made in creating and measuring rasters for landscape analyses: (i) acknowledge ecological theory and conceptual paradigms, (ii) evaluate the fit of available data, (iii) assess the three facets of scale, (iv) recognize different sampling designs, (v) use proper conceptual models, and (vi) measure meaningful raster characteristics.

The paper is a relevant contribution to a methodical problem landscape ecologists face in their research. It provides thought-provoking impulses to reflect own sampling and analysis designs - absolutely worth reading!

Honorable Mentions:

- **Bloomfield LSP, McIntosh TL, Lambin EF (2020) Habitat fragmentation, livelihood behaviors, and contact between people and**

nonhuman primates in Africa. *Landscape Ecology* 35(4):985-1000 (accessible for all IALE Members via landscape-ecology.org)

- Voigt CC, Scholl JM, Bauer J, Teige T, Yovel Y, Kramer-Schadt S, Gras P (2020) Movement responses of common noctule bats to the illuminated urban landscape. *Landscape Ecology* 35(1):189-201 (accessible for all IALE Members via landscape-ecology.org)
- Weideman EA, Slingsby JA, Thomson RL, Coetzee BTW (2020) Land cover change homogenizes

functional and phylogenetic diversity within and among African savanna bird assemblages. *Landscape Ecology* 35(1):145-157 (accessible for all IALE Members via landscape-ecology.org)

- Ridding LE, Watson SCL, Newton AC, Rowland CS, Bullock JM (2020) Ongoing, but slowing, habitat loss in a rural landscape over 85 years. *Landscape Ecology* 35(2):257-273 (Open Access)

Congratulations to these authors!



Women in Landscape Ecology: A Global Conversation

On 8 March, International Women's Day, the IALE Diversity and Inclusion Committee hosted the event, „Women in Landscape Ecology: A Global Conversation“. The event featured a discussion with three prominent women in the field: Prof. Harini Nagendra (Azim Premji University, Bangalore, India), Prof. Joy Obando (Kenyatta University,

Nairobi, Kenya), and Prof. Sarah Gergel (University of British Columbia, Vancouver, Canada). The conversation featured many personal stories from the three panelists and covered a range of topics, including the challenges of being a woman in landscape ecology and advice for early career researchers.

Women in Landscape Ecology >>>>>>> A Global Conversation <

The Diversity & Inclusion Committee of IALE (the International Association for Landscape Ecology)



Speakers:



Prof. Joy Obando



Prof. Sarah Gergel



Prof. Harini Nagendra

Organizers: Jennifer Costanza | Dolors Armenteras | Sima Fakheran | Monika Egerer | Amy Frazier

Link Webinar Registration: 

Monday, 8th March 2021
International Women's Day

4:00 PM GMT
9:00 AM Western North America
5:00 PM CET
9:30 PM India Standard Time

New Impact Factor for Land

The IALE affiliated open access journal *Land* has received a new impact factor. According to the Journal Citation Reports/®/ in June 2021, the Impact Factor of *Land* is now 3.395. IALE congratulates the editorial board for their successful work in developing a journal on landscape ecological themes.

Land publishes work on and use/land change, land management, land system science, landscape, soil-sediment-water systems, urban contexts, urban-rural interactions, land-climate interactions, etc. IALE members receive a discount on the article processing charges (APCs) - more information [here](#).

land
an Open Access Journal by MDPI

has received the new Impact Factor
3.395

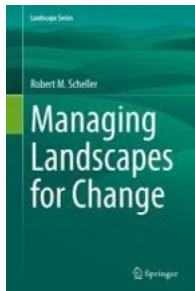
MDPI

Thanks for your support and contribution!



New publications in the Springer Landscape Series

The Landscape Series from Springer has released many new titles in 2020 and 2021 from some of our most active members:



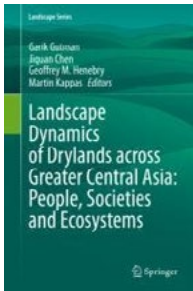
2020:
Scheller, Robert
*Managing
Landscapes for
Change*

- Reviews the drivers of landscape change and the unique effects of these processes
- Addresses how humans are active agents of landscape change
- Discusses landscape trajectories as a tool to evaluate future management options
- Considers the consequences of managing landscapes for change as compared to a more passive and reactive approach.



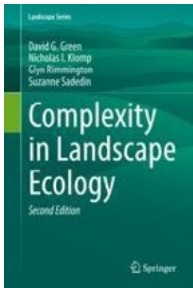
2020: Khoroshev, Alexander,
Dyakonov, Kirill N
*Landscape
Patterns in a
Range of Spatio-
Temporal Scales*

- Provides deep insight into the geosystem concept by viewing landscape as a 3D hierarchically organized heterogeneous entity where pattern is shaped by topography and substrate that determine the distribution of matter and energy flows
- Presents a multi-pattern view of landscape based not on visually detected patches only, but on several mutually additional approaches such as relief and substrate genesis, unilateral flows of dissolved matter, solid matter or surface water
- Describes specific methodologies adapted for studying pattern-process relationship at each level with particular focus on interactions between abiotic environment, soils and plant cover in both radial and lateral aspects



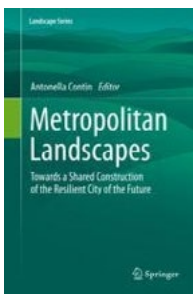
2020: Gutman, G., Chen, J., Henebry, G.M., Kappas, M. Landscape Dynamics of Drylands across Greater Central Asia: People, Societies and Ecosystems

- Comprehensively reviews dramatic land-use change across greater Central Asia
- Covers environmental consequences of the collapse of socialist governance
- Presents analysis of the dramatic changes in land uses triggered by an abrupt change in economies of the region and land management



2020: Green, D.G., Klomp, N.I., Rimmington, G., Sadedin, S. Complexity in Landscape Ecology

- Updated second edition incorporates new science and new insights in climate change and biodiversity loss
- Offers an up-to-date introduction to the concepts and scientific techniques of complexity in landscape ecology
- Explores the dynamic, complex interactions between landscape and plants, animals, and humans



2021: Contin, Antonella Metropolitan Landscapes: Towards a Shared Construction of the Resilient City of the Future

- Discusses the approach introduced by the concept of urban metabolism that considers the harmonious arrangement of landscapes in a single ecosystem, and accordingly to the décalage from rural to urban context, understood through new design strategies of transformation, replacement or maintenance
- Provides metropolitan key studies as generators of theoretical contents and approaches, data, experiences, good practice and tools to remove or avoid obstacles to plan the metropolitan city/region
- Fosters specialization for civil servants and professionals engaged in several sectors and can be used as a didactic tool dedicated to higher education



IRALE Newsletter

The Indian Regional Association for Landscape Ecology (IRALE) is a national chapter of IALE and was established in 2018. It is one of the youngest and very active chapters in the IALE family. In April 2021 IRALE started its own Newsletter highlighting its vision and mission, landscape ecological facts about India and guest contributions by landscape ecologists from all over the world. A link to the latest IRALE Newsletter is always included in the monthly IALE World Newsletter. You can download the first four IRALE Newsletter here:

- IRALE News 1 - April 2021
- IRALE News 2 - May 2021
- IRALE News 3 - June 2021
- IRALE News 4 - July 2021

Upcoming IALE Conference



11-15 July 2022

IALE 2022 European Landscape Ecology Congress: Making the future, learning from the past

Warsaw, Poland

> More information on iale2022.eu

In 2022, the next European Landscape Ecology Congress will take place. The IALE2022 Congress is IALE2021+, originally scheduled in 2021 but postponed due to the COVID-19 pandemic.

10-15 July 2023

IALE World Congress 2023: Transboundary Resource Management, Climate Change and Environmental Resilience

Nairobi, Kenya

> More information on landscape-ecology.org

Upcoming conferences of our partner organisation ESP

ESP

Ecosystem Services Partnership

2nd ESP MENA Conference 1-3 September 2021
Agadir, Morocco

3rd ESP Africa Conference 7-10 December 2021
Musanze, Rwanda

3rd ESP Asia Conference 15-17 December 2021
Nagasaki, Japan (online)

ACES-ESP Conference 13-16 December 2021
Bonita Springs, Florida, USA

4th ESP Europe Conference Fall 2022
Heraklion, Greece

Upcoming conferences with topics related to Landscape Ecology



20-22 September 2021

Landscape 2021 – Diversity for Sustainable and Resilient Agriculture online conference

> More information on www.landscape2021.org



25-27 January 2022

FEaA International Conference: Biodiversity and Human Well-Being – Europe's Role in Shaping Our Future
digital-only conference

> More information on www.feda.bio/en/2022-conference



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.

IALE Executive Committee:

President: Robert Scheller (2019-2023), North Carolina State University, North Carolina State University, Campus Box 7106, Raleigh, NC 27695-7106 USA, rschell@ncsu.edu; **Secretary General:** Peilei Fan (2019-2023), Michigan State University, 201M Human Ecology Building, 552 West Circle Drive, East Lansing, MI 48824, USA, fanpeile@msu.edu; **Treasurer:** Irene Petrosillo (2019-2023), University of Salento, 73100 Lecce, Italy, irene.petrosillo@unisalento.it; **Communication Officer and Deputy Secretary General:** Bastian Steinhoff-Knopp (2019-2023), Leibniz University Hannover, Schneiderberg 50, 30167 Hannover, Germany, steinhoff-knopp@phygeo.uni-hannover.de; **Past President:** Christine Fürst (2019-2023), Martin Luther University Halle-Wittenberg, Von-Seckendorff-Platz 4, 06120 Halle (Saale),

Germany, christine.fuerst@geo.uni-halle.de;

Vice Presidents and their role in the Executive Committee:

Dolors Armenteras (2019-2023; Latin America); National University of Colombia, Av. Carrera 30 # 45-03, Edif. 476 - Facultad de Ciencias, Bogotá D.C., Colombia, darmenterasp@unal.edu.co; **Henry Bulley** (2019-2023; Africa; Tasks: Outreach and communication), City University of New York, 199 Chambers Street, New York, NY 10007, USA, hnbulley1@gmail.com; **Benjamin Burkhard** (2015-2019; Europe), Leibniz University Hannover, Schneiderberg 50, 30167 Hannover, Germany, burkhard@phygeo.uni-hannover.de; **Cristian Echeverria** (2017 – 2025; Latin and South America; Tasks: Networking in Latin American countries, students and young researchers network), Universidad de Concepcion, Victoria 631, Barrio Universitario Concepción, Chile, cristian.echeverria@udec.cl; **Markéta Šantrůčková** (2021 – 2025), Research Institute for Landscape and Horticulture in Czechia, Květnové nám. 391, 252 43 Průhonice, Czech Republic, santruckova@vukoz.cz; **Weiqi Zhou** (2021 – 2025), State

Key Laboratory of Urban and Regional Ecology, Research Center for Eco-Environmental Sciences of the Chinese Academy of Sciences, 18 Shuangqing Road, Haidian District, Beijing, China 100085, wzhou@rcees.ac.cn;

Chair of the Council:

Danilo Boscolo, Universidade de São Paulo, Av. Bandeirantes, 3900 - CEP 14040-901 - Bairro Monte Alegre - Ribeirão Preto - SP - Brasil, danilo.boscolo@gmail.com.

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

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PLEASE: Send your contributions to the Bulletin Editor **Bastian Steinhoff-Knopp:**

steinhoff-knopp@phygeo.uni-hannover.de