



# iale BULLETIN

INTERNATIONAL ASSOCIATION FOR LANDSCAPE ECOLOGY

## Dear IALE Community,

This is my final holiday message as your President! I will use this opportunity to reflect on the past year, the past four years, and the future.

Although the pandemic feels like it has (mostly) passed, the past year has brought new challenges to the world and to our society. In particular, the war in Ukraine has brought wrenching changes to our IALE chapters and colleagues in Ukraine, Poland, and Russia. While the IALE Executive Committee recognizes the injustice and war crimes occurring, we also recognize the autonomy of our members and their independence from their governments. As noted in our special announcement from March, 'IALE encourages its members and chapters to separate individual scientists from the adverse actions of their home countries/governments, stay united, and treat each other with empathy and mutual respect.' (see [www.landscape-ecology.org/news/12644952](http://www.landscape-ecology.org/news/12644952)). We will continue to do so, regardless of country or situation.

The year 2022 has also seen an increase in economic instability. This instability has exacerbated global inequality by increasing food insecurity for lower income countries. At the same time, vicious heat waves swept the globe, causing substantial harm to landscapes and livelihoods. More than ever, our dependence on our local landscapes, and telecoupling among landscapes, has been laid bare. Our contributions to increasing landscape resilience to political, economic, and climate upheavals are ever more important.

As difficult as this past year has been, it feels consistent with the last three. (Please don't correlate that with my tenure as your President!) IALE has been negatively impacted. Without regular in-person meetings, our membership has dropped and we have lost chapters. On the flip side, we are also soon to regain the IALE-France chapter. Although online meetings served as a bandaid, many of our members became disconnected and isolated. The spirit of global collaboration that defines us dimmed to a certain extent. Personally, I attended my first conference in three years just this past October. Although it was exciting to see old friends and engage in long conversations, it served as a reminder of how much I have missed.

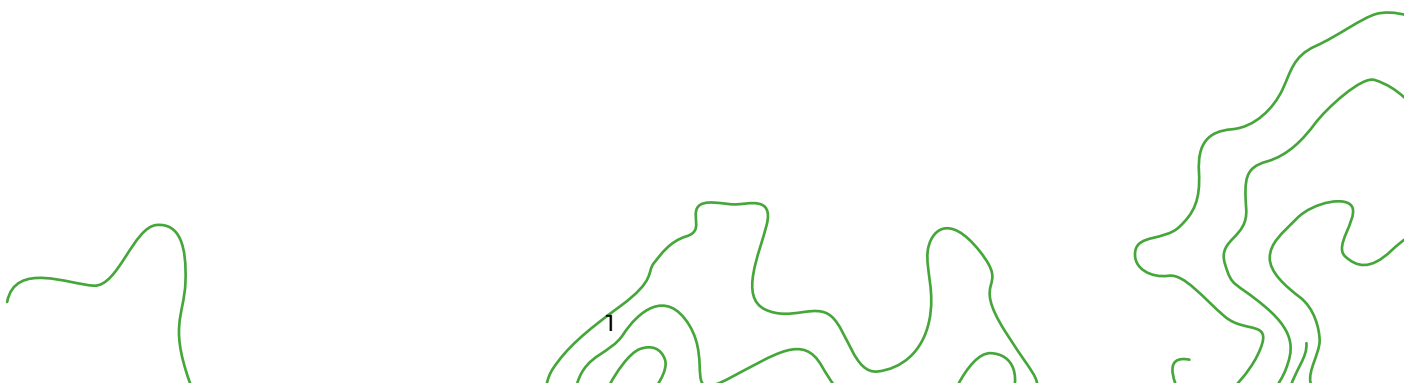
Yet I remain optimistic and excited for IALE. We have an exciting World Congress just ahead of us (see [www.iale2023.mak.ac.ug/](http://www.iale2023.mak.ac.ug/)). And I can feel the palpable excitement for a return to our mission: conducting world-class science that supports communities and landscapes and that connects us with a global network of people who share our values, passion, and vision. We will need this passion and vision to sustain us in the years ahead - climate change and international conflict sadly now remain as near constants - and our unity will amplify our voices and help us deliver solutions to a world that desperately needs them. Our Mission Statement now seems prescient: "IALE advances international co-operation... IALE encourages landscape ecologists to transcend boundaries and disciplines, to collaboratively build theory

and develop knowledge... and apply them to real landscape situations, and to apply our science towards solving problems."

Please take a moment this year's end to recognize the challenges we have faced and will continue to face; offer support and comfort where needed; and also to gather strength and plan ahead for future opportunities.

Yours,

*Rob Scheller*, IALE President



# IALE 2023 World Congress | Nairobi, Kenya

## 10th - 15th, July 2023

Transboundary Resource Management, Climate Change and Environmental Resilience

### Call for Participation

We invite you to participate in the forthcoming 2023 IALE World Congress, which will take place in Nairobi, Kenya in July 2023. The IALE World Congress occurs every four years and is the premier conference event for landscape ecologists worldwide, addressing issues of landscape ecology spanning from the local to global scale. The 2023 World IALE Congress is expected to attract landscape ecologists from public, private, and non-profit sectors who will address a broad spectrum of environmental challenges and potential solutions to obviate them. The 2023 World Congress will be organized in a hybrid mode.

The theme of the 2023 IALE World Congress is 'Transboundary Resource Management, Climate Change and Environmental Resilience'. The theme comprises of nine sub-themes as follows:

- The theme of the 2023 IALE World Congress is 'Transboundary Resource Management, Climate Change and Environmental Resilience'. The theme comprises of nine sub-themes as follows: Transboundary ecosystems in the Anthropocene: The shared ecosystems and natural resources across country boundaries and the anthropogenic effects. How human activities are altering these transboundary ecosystems
- Managing climate risk in transboundary ecosystems: Climate change and global warming in the transboundary ecosystems; mitigation, adaptation, geoengineering,
- Borderlands, cross-border resources, and environmental resilience: Strengthening resilience in borderlands ecosystems, disturbance of ecosystems
- Building resilience and security: Food security, water security, and livelihoods
- Climate resilient livelihoods: Climate resilient agricultural practices, adaptive agriculture, agroecology,
- Data science and geospatial technology for sustainable landscape management:
- Drivers of landscape change and sustainability at multiple scales:
- Ecological sustainability in urban landscapes and smart cities
- Water-Energy-Food nexus

### Paper and Poster Abstracts

We invite IALE community and interested persons to submit a 300-word abstract for a paper and/or poster presentation. Note that each person may be listed on multiple abstracts but cannot be the primary author for more than one submission. The abstracts should target one or more of the conference sub-themes and articulate the problem, methods employed, major results and conclusions.



**Paper/Poster Abstracts submission portal open:**  
*1st January 2023*

**Deadline for Paper and Poster abstract submission:**  
*15th February 2023*

**Latest Notification on abstract acceptance:**  
*31st March 2023*

Download the Call for Symposium & Workshop Proposals [here](#).

### More Information

IALE2023 Congress Secretariat

Email: [iale.2023\(at\)mak.ac.ug](mailto:iale.2023(at)mak.ac.ug)

Or contact us via [www.iale2023.mak.ac.ug/contact](http://www.iale2023.mak.ac.ug/contact)

## Message from the IALE 2023 Conference Chair

### Extended Submission Deadline Symposium/Workshop Proposal



**Joy Obando,**  
IALE 2023  
Conference  
Chair

We wish to inform the IALE Community that the Symposium/Workshop Proposal portal will remain open through *December 31, 2022*. Although we have already received about 50 proposals, we have taken this action in response to numerous request for additional time to submit proposals.

Meanwhile, accepted Symposium and Workshop Proposals would be made available on IALE 2023 Conference website by December 24, 2022. This list will be updated as new Proposals are received.

Please visit the 2023 Congress Website for updates.

**Additionally, the Paper/Poster Abstract Submission portal will be opened on January 1, 2023.**

Feel free to contact the conference organizers with any questions.

Happy Holidays,

**Joy Obando**  
IALE 2023 Conference Chair  
Kenyatta University, Nairobi, Kenya



## Fieldwork training in landscapes of Southern Chile

Author: Daniel Rozas Vásquez (IALE-Chile)

Between September 29th and October 1st, IALE Chile carried out the "Fieldwork training in landscapes of Southern Chile: understanding patterns and dynamics of transformation in contrasting landscapes". This activity had the financial support of IALE international and the sponsorship of different national postgraduate programs. A total of 17 students and 7 researchers (the instructors), all IALE-Chile members, participated in the 3 days of training. The main objective of the training was to carry out a reflexive reinforcement of theoretical, methodological, and practical aspects of landscape ecology, which were applied in the contrasting environments visited in the fieldwork training. Each student shared their research topic with the group, which provided feedback and opened additional reflections. The first day, we visited the coastal area of La Araucanía region. Here we had the opportunity to visit landscapes with a significant indigenous cultural heritage, where agriculture is the main activity, located among small patches of native forest and important aquatic systems such as Lake Budi and the estuary of the Imperial River. Both are currently subject to recent changes due to tectonic activity. On the second day, we visited the Andes zone of La Araucanía. The focus of this day was a network of 700 hectares of native forest restoration. The area still had winter snow, and it was possible to appreciate

the evolution of landscapes set on fire more than 30 years ago, subjected to invasion processes, and today under reforestation. In addition, landscapes of high biogeographical interest were observed, such as Araucaria and Nothofagus forests. On the last day, we worked in the city of Temuco, the capital of La Araucanía region. Here we focus on green infrastructure, visiting a new urban park that integrates the conservation of Boldo forests, and also recovering part of the historical memory. Afterward, we climbed a tower to make "bird's eye" views of the city, where the relationship between natural and anthropic elements was analyzed. In addition, we also analyzed the heat island phenomenon in the city using different instruments. Finally, a residential neighborhood with diverse green spaces was visited. On the activity was organized by the IALE-Chile board and coordinated by Daniel Rozas from the Catholic University of



© Daniel Rozas Vásquez

Temuco and Francisco de la Barrera from the University of Concepción. The course was guided in landscapes of his specialty by Cristian Echeverría (Andean landscapes) and Fernando Peña (coastal landscapes). In addition, the academics Roxana Lebuy, Maria Elgueta, and professor Massimo Palme, current president of IALE-Chile, accompanied throughout the course enriching the discussions in areas of their expertise and motivating students to continue their research in landscape ecology.

In the andes with IALE VP Cristian Echeverría

More information at [www.iale-chile.cl](http://www.iale-chile.cl)

At the Coast with Fernando Peña





# Collaboration on landscape ecology of megafires in America

Author: Dolores Armenteras (IALE-Colombia)

An intense research agenda on megafires landscapes was developed by Dr. Dolores Armenteras from the National University of Colombia (UNAL) and Dr. Francisco de la Barrera from the University of Concepción (Chile), the latter visiting Colombia in October. During the visit, they carried out dissemination and dialogue activities with academics and students at the universities, UNAL of Bogotá and La Paz, and at the University of Tolima. The shared scientific motivation is that megafires, fires over 10,000 ha in size, once rare are today not an unusual phenomenon and at risk of worsening. Megafires in South America are still lacking adequate government attention, and are treated in the same way as recurrent smaller forest fires. Once a megafire breaks out, suppression capacities are insufficient and there is no human way to stop these fires. One possible pathway includes integration of an approach from landscape ecology towards preventive planning and management actions at a landscape scale. Current preventive actions mostly address communication and preparation measures for the protection of people and material goods. More and more resources are also available for fire suppression, brigade members, new fire behaviour predictive technologies, and more available aircraft. Undoubtedly, the latter is necessary to prevent greater impact of vulnerable and populated areas, especially in the urban-forest interface. However, it will never be enough to avoid the negative effects caused by those fires bigger than 10,000 hectares, even exceeding 100,000 hectares. Fire driven landscape pattern changes have a tremendous impact on processes including a regional and local reduction in essential ecosystem services for the local population, such as the prevention of flood events or landslides. Research on these issues requires a Latin American approach, taking into account the differences in terms of budgets, the capacities to implement planning and management actions, and the cultural practices associated with the use of fire. In addition, unlike fires produced in other latitudes, both countries have similarities in the fact that most of the fires are of anthropogenic origin and less than 1% are naturally caused.



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Dolores Armenteras giving a talk on "our planet on fire".  
 Francisco de la Barrera giving a talk on megafires in Chile.  
 Dolores Armenteras and Francisco de la Barrera guarded by firefighters



# Restoring wetlands in Sweden

Author: Bo Eknert (IALE-Sweden)

Sweden is a country rich in wetlands. About 20% of the land area consists of wetlands. However, during the last centuries a number of wetlands have been drained out to improve production in agriculture or forestry. These dried wetlands causes emissions of carbon dioxide and contribute to the greenhouse effect. It has been estimated that the contribution of CO<sub>2</sub> from drained wetlands is equal to the emissions from all private cars in Sweden. To restore wetlands and close ditches should be an effective way to minimize emission of CO<sub>2</sub> as well as it would benefit biodiversity. This was the subject at a conference on September 15th in Stockholm arranged by IALE-Sweden. We had invited representatives from Ministry of the Environment, environmental organisations and researchers. Financial support for wetland restoration is now guaranteed by the government. However, so far there has been little interest from landowners and just a minor part of the economic support have been used. During the conference we discussed different ways to increase the interest and possibilities for wetland restoration.

Angarnsjöängen, a restored wetland just north of Stockholm



# IALE Chapter and Working Group Research in Current Landscape Ecology Reports

Author: Sara A. Gagné, Editor-in-Chief

Current Landscape Ecology Reports is helping to expand the dissemination of global landscape ecology research by publishing the latest advances from IALE chapters and working groups.

In 2022, the journal added four new sections devoted to landscape ecology research from Africa, Russia, Iran, and India, edited by Chapter Presidents Moses Along Cho, Alexander Khoroshev, Sima Fakheran, and P. K. Joshi, respectively.

In 2023, the journal will be adding a section devoted to landscape ecology research from Argentina, edited by Chapter President Marcelo Luciano Gandini, and sections focused on Forest Landscape Ecology, edited by Working Group Chair João Azevedo, and Urban and Peri-Urban Governance, edited by Working Group Chair Marcin Spyra.

Thank you to these editors for their participation in this important initiative!

Springer's Current Landscape Ecology Reports publishes short, timely reviews in sections devoted to sub-topics in landscape ecology.

See [www.springer.com/journal/40823/](http://www.springer.com/journal/40823/) for the latest articles in the journal, including those published in our IALE sections:

- "Agricultural Landscape Studies in Russian Federation by Anatolij S. Gorbunov" *Vladimir B. Mikhno, and Ol'ga P. Bykovskaya*
- "Mathematical Modeling: Does Landscape Science Need to Become an Exact Science?" *V. G. Linnik*
- "Geosystem Approach to Landscape Pattern and Process Studies in Russia" *Alexander V. Khoroshev*
- "Basin Approach as A Tool for Landscape Assessment and Planning" *Dmitry Chernykh*
- "Developing Strategies to Improve the Urban Environmental Structure Resiliency During and After Corona Pandemic: A Literature Review" *Parastoo Parivar, Ahad Sotoudeh, and Zahra Mazloomshah*

In addition, please keep an eye out for new research published in our sections on the Interface of Landscape Ecology and Conservation Biology, edited by Nélida



Villaseñor, the Interface of Landscape Ecology and Ecosystem Services, edited by Emma Hudgins, Spatial Scale – Measurement, Influence, and Integration, edited by Amanda Martin, and Landscape Ecology of Aquatic Systems, edited by Jason Dunham.

If you are interested in editing an IALE section for the journal or a topical section of your choosing, please get in touch with Sara Gagné at [sgagne@uncc.edu](mailto:sgagne@uncc.edu).





# IALE Europe: Announcement of the IALE Europe elections results



Authors: IALE Europe Nominating Committee

## To all members of IALE-Europe

You were invited to participate the elections of a new Executive Committee (EC) of IALE-Europe and a new Representative of IALE-Europe. As always, it is of upmost importance that members express their vote, as active members of an association. As decided at the meeting of the General Assembly of IALE-Europe on 12 July 2022, the elections for a new Executive Committee (EC) and Representative for the IALE Council were planned from 15 July to 15 October 2022, all online. The call for candidate lists to the IALE-Europe Executive Committee and to nominate a representative for IALE-Europe in the IALE-Council has been sent out in July 2022. On the deadline of 15 September 2022, the Nominating Committee received one candidate list for the EC and one nomination as representative for the IALE-Council. The names composing the list and the name of the representative are below in this message.

This list secures continuity with the precedent Executive Committee, continuing the consistent and constructive work done so far, while also at the same time, integrating new members and therefore also renewed energy and ideas to fulfill the mission and the goals of IALE-Europe. As we, the Nomination Committee, received only this one list for a new EC and one nomination for representative, all members were asked to vote whether to agree/disagree/abstain with the proposed list and representative. This election was taking place from 7 November 2022 until 25 November 2022. There were 372 members in good standing invited in the election.

The results of the elections are:

- Election of the IALE-Europe Executive Committee
- Yes 88 / No 0 / Abstain 2
- Election of representative of IALE-Europe for the IALE-Council
- Yes 65 / No 0 / Abstain 4

We believe the lower number of votes for the representative to the IALE-Council than for the Executive Committee, is related to voting members who did not realize that two separate votes were needed. In any case, the voting members represent a comfortable number, actively supporting the candidates and the work of IALE-Europe. We herewith would like to thank all those who expressed their vote.

With warm regards to the whole IALE-Europe community,

*Teresa Pinto-Correia*

Chair of the Nominating Committee

*Emilio Padoa-Schioppa*

Member of the Nominating Committee – IALE Italy

*Markéta Šantrůčková*

Member of the Nominating Committee – IALE Czech Republic

## Elected Executive Committee of IALE-Europe 2022-2025

*Veerle Van Eetvelde* (President)  
*Ghent University*, Department of Geography (Belgium)

*Simona Gradinaru* (Secretary General)  
*University of Bucharest*, Centre for Environmental Research and Impact Studies (Romania)

*José Rafael Muñoz-Rojas Morenés* (Treasurer)  
*Universidade de Évora*, Department of Geosciences and MED-Mediterranean Institute for Agriculture, Environment and Development (Portugal)

*Federica Larcher* (Membership Administration)  
*University of Torino*, Department of Agricultural, Forest and Food Sciences, Landscape ecology and urban horticulture research group (Italy)

*Werner Rolf* (Communication manager)  
*Technical University of Munich*, TUM School of Life Science, Chair for Strategic Landscape Planning and Management (Germany)

*Morten Graversgaard*  
*Aarhus University*, Department of Agroecology and Department of Biology (Denmark)

*Çidem Cokun Hepcan*  
*Ege University*, Faculty of Agriculture, Department of Landscape Architecture (Turkey)

## Elected representative of IALE-Europe for the Council of IALE International

*Isabel Loupa-Ramos*  
*IST/ University of Lisbon*, CiTUA (Portugal)



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](mailto: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](mailto:fanpeile@msu.edu); **Treasurer:** Irene Petrosillo (2019-2023), University of Salento, 73100 Lecce, Italy, [irene.petrosillo@unisalento.it](mailto: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](mailto: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](mailto: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](mailto: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](mailto:hnbulley1@gmail.com); **Benjamin Burkhard** (2015-2019; Europe), Leibniz University Hannover, Schneiderberg 50, 30167 Hannover, Germany, [burkhard@phygeo.uni-hannover.de](mailto: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](mailto: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](mailto: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](mailto: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](mailto:danilo.boscolo@gmail.com).

IALE International on the Internet:  
[www.landscape-ecology.org](http://www.landscape-ecology.org)

#### **Bulletin Deadline**

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Vol. 41 no. 2: 15.05.2022

Vol. 41 no. 3: 01.09.2022

Vol. 41 no. 4: 30.11.2022

PLEASE: Send your contributions to the Bulletin Editor **Bastian Steinhoff-Knopp**: [steinhoff-knopp@phygeo.uni-hannover.de](mailto:steinhoff-knopp@phygeo.uni-hannover.de) or [info@landscape-ecology.org](mailto:info@landscape-ecology.org)