

# iale BULLETIN

INTERNATIONAL ASSOCIATION FOR LANDSCAPE ECOLOGY

## Dear IALE members!

Another year full of scientific and societal challenges and sometimes surprises has come and gone. Some of our colleagues in countries in transition might have experienced this much more intensively and we all wish those being confronted with societal and political changes and challenges will soon have a more reliable and desirable future with regards to their careers in science.

A year full of attempts to improve policy consulting is behind us. The Intergovernmental Science-Policy Platform on BioDiversity and Ecosystem Services (IPBES) could publish its first assessment results on pollination as a vital service for supporting food security and the Conference of the Parties (Climate Action) 2016 meeting (COP22 in Marrakech) provided some hope that global collaboration on climate change will not end, even given that some elections might

result in certain governments backing off their commitments to fighting climate change and challenging some of the science facts and public perceptions.

It seems for the moment that economic development and a relatively strange narrative on civil security dominate societal perceptions. Questions of sustainable use and development of natural resources are starting to get lost in the societal discourse of how to develop our future and those of upcoming generations. It is up to us to bring back in mind that no society and no global community can survive and sustainably develop without respecting, managing and conserving natural processes in an adequate way.

It is high time to communicate much more actively in public processes that singular and isolated solutions for sustainability

cannot work without an integrative perspective on regional or landscape processes and their connectivity in a global context. Segregated solutions that build a wall between nature conservation and natural resource management are not helpful. They will only increase globalization effects and contribute to tendencies to "ransom" from harmful environmental impacts by paying for nature at places where there is no interest in development. Landscape Ecology as a discipline can provide valuable knowledge to show how integrative management concepts can contribute to sustainable development in a global context without excluding local actors.

2016 was a year of a growing IALE community in different parts of our world. The Chile national chapter has gotten off to a good start successfully and



Photos on this and next page by  
Matjasz Zupanic, Slovenian Forestry  
Service

the chapters in Africa and India are close to finalizing their organizations. Still, it will be a target to sustain the work in all ongoing chapters and our call at the start of the year targeting young chapters and working groups intended to provide help for national and cross-border collaboration on landscape ecology. Please contribute with your applications to the new calls for such initiatives which is published in this Bulletin.

We are particularly proud – and here Vice-President Rob Scheller is the important driver – that new and highly active IALE Working groups could be established which support our work across the Chapters and strengthen our capacities to provide relevant scientific output. Many thanks to all those who contributed with their personal commitment to make this happen!

Furthermore, IALE started – thanks to the great initiative of our Bulletin editor and Vice-Secretary General Benjamin Burkhard

– to develop its corporate identity and thus web-page, services and logo. Here we all should simply give a huge THANK YOU to this initiative!

Looking a bit into 2017, the IALE Europe Congress “From pattern and process to people and action”, taking place in Ghent (Belgium), 12-15 September 2017, will provide us with a wonderful opportunity to exchange and share our research on landscape ecology i between the two world congresses ([www.iale-europe.eu/iale2017](http://www.iale-europe.eu/iale2017)). It would be great if many of us could meet there! Another conference shared with IUFRO (International Union of Forest Research Organizations) “The Green-Blue Nexus: Forests, Landscapes and Services” will take place a bit later ([iufrole2017.eli-web.com/](http://iufrole2017.eli-web.com/)) and enable us to strengthen our networking activities across disciplines. It would be great for our members to take advantage of this opportunity.

A final little challenge of ours will consist of adapting our management structure to the increased global range and growing community of IALE. Therefore, part of the Bulletin and our next activities will be to suggest changes in our statutes and thus enable a broader international participation in the IALE Executive Committee (EC). We, the EC, are greatly looking forward to your input and support in suggesting changes in how aIALE international functions.

I wish us all warmly a peaceful end of the year and an invigorated start into 2017. IALE should be a community that helps us crossing borders, interests and persuasions with the vision to develop a common world that sustainably harmonizes natural processes and societal needs.

Yours

*Christine Fürst*  
(President IALE International)



## Publication of requests for changing the statutes for voting

The IALE Executive Committee suggests adapting the current statutes to ensure a better global representation and highlight the international character of our association. Furthermore, modifications of the statutes are suggested for voting, (a) following an initiative of the Danish chapter to revise the composition of the Council, (b) to support the handling of the finances of IALE international, and (c) to adapt the responsibilities in communication.

According to section N1 of our bylaws, proposed changes to the statutes can be made in writing to the Executive Committee (through the Secretary-General) by any member in Good Standing. If approved by the Executive Committee and the Council, proposed changes are published in the Bulletin or the web site to members at least two months before a scheduled vote among members in good standing on the changes. If approved by a majority of the

valid ballots cast, the changes will become effective immediately.

Soon, you will obtain an invitation by email to vote on the suggested changes by YES or NO.

The following sections are suggested to be changed:

### Current version

### Suggested change

Yes No

|   |  |                          |                          |
|---|--|--------------------------|--------------------------|
| A2 The seat of the Association is Wageningen, the Netherlands. The contact address is the address of the Secretary General. For financial business the address of the Association is the address of the Treasurer.  | A2 The seat of the Association is Wageningen, the Netherlands. The contact address is the address of the treasurer. For financial business and commercial issues the address of the Association is either the address of the Treasurer or another appointed member of the Executive Committee ensuring the access to the European bank account.  | <input type="checkbox"/> | <input type="checkbox"/> |
| E1 The purpose of the General Assembly is to make decisions affecting the general membership of the Association, including changes in membership fees. The General Assembly normally will meet during a World Congress, but may also be convened in any other way designated by the Executive Committee.  | E1 The purpose of the General Assembly is to make decisions affecting the general membership of the Association, including changes in membership fees at the international level and approval of new chapters. The General Assembly normally will meet during a World Congress, but may also be convened in any other way designated by the Executive Committee.   | <input type="checkbox"/> | <input type="checkbox"/> |
| F1 [...] The four Vice-Presidents are intended to provide regional representation and should reflect the international character of the Association. Vice-Presidents have four-year terms. Elections for two Vice-Presidents shall take place at two-year intervals. Vice-Presidents may be re-elected to consecutive terms. Vice Presidents provide support wherever needed on EC, and provide leadership for certain initiatives as determined by the EC. | F1 [...] The six Vice-Presidents are intended to provide global representation and should reflect the international character of the Association. Vice-Presidents have four-year terms. Elections for three Vice-Presidents shall take place at two-year intervals. Vice-Presidents may be re-elected to consecutive terms. Vice Presidents provide support wherever needed on EC, and provide leadership for certain initiatives as determined by the EC, such as initiation and support of new working groups or chapters. | <input type="checkbox"/> | <input type="checkbox"/> |
| F1 [...] The Bulletin Editor, who also serves as Deputy Secretary-General. The Bulletin Editor has the same term as the President and is eligible for immediate re-election. This person provides communication to the IALE membership through regular publication of the Bulletin, and maintenance of the web site.  | F1 [...] The Communication Officer, who also serves as Deputy Secretary-General. The Communication Officer has the same term as the President and is eligible for immediate re-election. This person provides communication to the IALE membership through regular publication of the Bulletin, and maintenance of the web site.   | <input type="checkbox"/> | <input type="checkbox"/> |
|   | F14 The Executive Committee can appoint a Banking Liaison Nominee (BLN) in the Netherlands. The BLN is not member of the EC. The BL is responsible for supporting the banking at the Netherlands and will support the Treasurer considering all relevant decisions for which native Dutch language is requested.   | <input type="checkbox"/> | <input type="checkbox"/> |

## Current version

## Suggested change

Yes No

|   |   |                          |                          |
|---|---|--------------------------|--------------------------|
| <p><b>H1</b> The Council of IALE consists of:<br/>The Executive Committee.<br/>One representative from each confirmed Regional Chapter who has been certified in writing by the Chapter's Executive Committee to the Secretary-General as the elected Regional Representative. The Council Representative must be renewed annually for each Regional Chapter.</p>   | <p><b>H1</b> The Council of IALE consists of:<br/>One EC representative who is member of and appointed by the EC for one election period (4 yrs.).<br/>One representative from each confirmed Regional Chapter who has been certified in writing by the Chapter's Executive Committee to the Secretary-General as the elected Regional Representative. The Council Representative must be renewed annually for each Regional Chapter.</p>   | <input type="checkbox"/> | <input type="checkbox"/> |
| <p><b>I2</b> [...] The Council will vote to confirm or reject the request for Regional Chapter status without undue delay. IALE membership fees for any members of the Regional Chapter who are not already members of IALE shall be forwarded to the Treasurer.</p>  | <p><b>I2</b> [...] The Council will vote to confirm or reject the request for Regional Chapter status within 4 weeks. IALE membership fees for any members of the Regional Chapter who are not already members of IALE shall be forwarded to the Treasurer.</p>   | <input type="checkbox"/> | <input type="checkbox"/> |
| <p><b>J2 A</b> [...]</p>  | <p><b>J2 A</b> [...] If a Working Group does not document visible activities per year, the appointed Vice President in the EC has the option to terminate its activities and/or delete it from the webpage.</p>   | <input type="checkbox"/> | <input type="checkbox"/> |
| <p><b>K The Bulletin</b><br/><b>K1</b> The Bulletin Editor shall issue the Bulletin at regular intervals to communicate with members about issues and activities in landscape ecology, IALE affairs, and activities of the Regional Chapters and Working Groups.</p> <p><b>K2</b> Costs of production and distribution of the Bulletin shall be paid from membership fees, as budgeted by the Treasurer. Electronic distribution of the Bulletin is the standard. For those unable to obtain it electronically, the printed version will be made available</p>          | <p><b>K IALE Communication Media</b><br/><b>K1</b> The Communication Officer shall issue the Bulletin at regular intervals to communicate with members about issues and activities in landscape ecology, IALE affairs, and activities of the Regional Chapters and Working Groups. Information distribution and member engagement through social media are additionally be supported by a team (IALE Outreach Working Group, IOWG) of senior and junior members under guidance and in close exchange with the Executive Committee.</p> <p><b>K2</b> Costs of production and distribution of the Bulletin or the use of any other communication panels shall be paid from membership fees, as budgeted by the Treasurer. Electronic distribution of the Bulletin is the standard. For those unable to obtain it electronically, the printed version will be made available</p> | <input type="checkbox"/> | <input type="checkbox"/> |
| <p><b>L2</b> Expenditures from the IALE Treasury shall be:<br/>Planned and completed with reference to an annual budget proposed by the Treasurer and approved by the Executive Committee.<br/>Approved by the Executive Committee if more than US \$5,000.<br/>Approved by the Treasurer and the President (or, in emergencies, the Secretary-General in place of the President) if US \$ 1,000-5000.<br/>Approved by the Treasurer if less than US \$1,000.<br/>Documented by official signed receipts submitted to the Treasurer in all cases except petty cash.</p> | <p><b>L2</b> Expenditures from the IALE Treasury shall be:<br/>Planned and completed with reference to an annual budget proposed by the Treasurer and approved by the Executive Committee.<br/>Approved by the Executive Committee if more than € 5,000.<br/>Approved by the Treasurer and the President (or, in emergencies, the Secretary-General in place of the President) if € 1,000-5000.<br/>Approved by the Treasurer if less than €1,000.<br/>Documented by official signed receipts submitted to the Treasurer in all cases except petty cash.</p>  | <input type="checkbox"/> | <input type="checkbox"/> |

## Competitive call:

Support for Chapter Conferences, Working Group activities and support for Conference trips

*Dear IALE members,*

we wish to invite you in contributing to IALE International's activities through the following calls:

### 1. Call for Chapter Conference Supports

We consider the national and regional chapter meetings to be key for engaging the IALE community and supporting a broad perception of landscape ecology as an integrative discipline. Therefore, we ask for competitive applications for the financial support of chapter conferences that can be provided as a loan or direct support. Combinations of both are possible and subject to incoming requests and available funds. Applications for supporting chapter conferences should be sent by January, 15, 2017 to Christine Fürst, [christine.fuerst@geo.uni-halle.de](mailto:christine.fuerst@geo.uni-halle.de) including a one page description of the event and a financial plan that justifies the requested money.

### 2. Call for supporting running / new Working Groups (WGs)

We consider WGs to be the most suitable instrument to enhance the cooperation and capacity building within and between the regional chapters. WGs can address a particular thematic / disciplinary interest, specific communities (e.g. young scholars) or cross-cutting topics that enhance interdisciplinary collaboration or cooperation with other platforms or societies. New WG suggestions should include the addressed topic, a short description including planned activities and the contact of the new WG leader. Applications for financial support should provide a 1 page summary of the intended activities for which the support is required and provide a financial plan. Applications should be sent to by January, 15, 2017 to Robert Scheller, [rmschell@pdx.edu](mailto:rmschell@pdx.edu).

### 3. Call for other activities

In support of communication and outreach activities and for strengthening the cooperation within the IALE community, we invite suggestions for innovative activities. These can comprise e.g. in capacity building or transfer activities, young scholars engagement in science-policy dialogues or innovative forms of stakeholder engagement in landscape ecological research (citizen science). They should primarily complement other activities such as conferences or workshops so that synergies can be used most efficiently.

Applications should be addressed to Felix Kienast, [felix.kienast@wsl.ch](mailto:felix.kienast@wsl.ch) until January, 15, 2017 including a 1 page description of the planned activity and its added value / innovation input and a financial plan.

We are all greatly looking forward to your participation in our new WGs, your ideas, suggestions and particularly to sharing your landscape impressions with us!

*Christine Fürst  
Felix Kienast  
Thomas C. Edwards  
Benjamin Burkhard  
Irene Petrosillo  
Henry Bulley  
Liding Chen  
Andreas A. Christensen  
Robert Scheller*



## IALE 2017 European Congress

From pattern and process to people and action  
Ghent, 12-15 September 2017



IALE-Europe and Ghent University are pleased to announce the call for symposia for the IALE 2017 European Congress.

The congress theme reflects that landscape ecology as a meeting point, where pattern and process meet people and action, seen as a way of thinking when dealing with European landscapes. We want to put emphasis on the integration of pattern and process as a biophysical component of landscape ecology with people and action, bringing in the social and cultural approaches. This requires a true interaction of natural and social sciences, of science, policy and practice. Therefore we see the

congress as an opportunity to reflect on the state of the art of landscape ecology today. Furthermore, the challenge of the congress is what the future directions are of landscape ecology as a social relevant approach for science, policy and practice.

**This congress is time to reflect because**  
... as IALE celebrates 35 years, the IALE 2017 European Congress is the moment to reflect about current trends and approaches in Landscape Ecology  
... it is time to look forward to future directions for landscape ecology research and practice.

More information on the Congress website: [www.iale-europe.eu/iale2017](http://www.iale-europe.eu/iale2017)

### *Interacting*

This congress will stimulate interaction because of  
... the different formats of sessions, field trips, workshop session, social events  
... the open call for symposia makes it your congress  
... the participants from all landscape related disciplines

### *PhD Course*

In conjunction of the congress, an Intensive PhD course in landscape ecology will be organised. Further details will be available soon.

## Assessment and Valuation of Recreational Ecosystem Services of Landscapes

Special Issue of the journal *Ecosystem Services*

Recreation is one of the numerous benefits that individuals and societies gain from landscapes and the natural environment. Various direct and indirect benefits result from recreational opportunities, including improved physical health, the regenerative qualities related to being outside and contributions to regional development. This Special Issue is focused on the assessment and valuation of the cultural ecosystem service of recreational opportunities, especially at regional and national levels. We invite contributions that present novel insights and latest methods for mapping and assessing recreational ecosystem services (RES) and cultural ecosystem services more broadly, tackling potentials, demand, actual use, as well as economic and socio-cultural values and benefits. We are particularly interested in practical applications and the potential for modelling and mapping outputs to be used in policy and practical decision making. We welcome submissions that address the following key questions:

- How can we advance the theory and practice of RES mapping, assessment, and economic and socio-cultural valuation in the context of MAES (Mapping and Assessment of Ecosystems and their Services), including suggestions for harmonizing the diversity of approaches?
- Which bottlenecks and innovative solutions have been identified in the mapping, assessment and valuation of RES?
- How can 'big data' be applied in the assessment of RES?
- Which evidence do we have about the links between RES and the benefits for human wellbeing?
- How can we understand the diverse benefits depending on the diversity of beneficiaries of RES?
- How can we implement RES assessments that provide valid and relevant information at various spatial and temporal scales?
- How can we harmonize different approaches to mapping and assessing RES, for example among EU member states, to enhance the comparability of the results?

**Deadline for submission:** May 31, 2017  
**Short title:** Recreational ES

The full call for contributions and all submission details can be found at: [www.journals.elsevier.com/ecosystem-services/call-for-papers/special-issue-on-assessment-and-valuation-of-recreational-ec](http://www.journals.elsevier.com/ecosystem-services/call-for-papers/special-issue-on-assessment-and-valuation-of-recreational-ec)

### **Guest Editors:**

*Johannes Hermes*, Leibniz Universität Hannover  
*Benjamin Burkhard*, Leibniz Universität Hannover  
*Christian Albert*, Leibniz Universität Hannover  
*Derek Van Berkel*, North Carolina State University  
*Christina von Haaren*, Leibniz Universität Hannover  
*Tobias Plieninger*, University of Copenhagen  
*Nora Fagerholm*, University of Turku & University of Copenhagen

## New book: Labor Forces and Landscape Management

By H. Shimizu, C. Takatori, N. Kawaguchi (Eds.)  
Japanese Case Studies

- Proposes a new concept of „landscape management labor accounts“
- Presents case studies that provide a balance between theoretical development and actual evidence
- Contains contributions by authors from various academic fields including urban planning, landscape planning, agriculture, forestry, sociology, and ecology

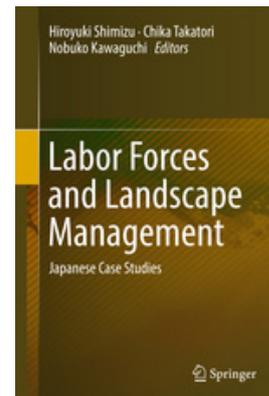
The purpose of this book is to present a new proposal for landscape management labor accounts. Many matured countries are now confronting an aging society and a shrinking population. Land degradation in those countries is basically caused by a lack of local labor forces. It is very important, therefore, to consider and develop methods to provide appropriate labor forces for the sustainable management of landscapes or to reduce or shrink landscape management areas sustainably with available labor

forces. Landscape management labor accounts provide a foundation for such development.

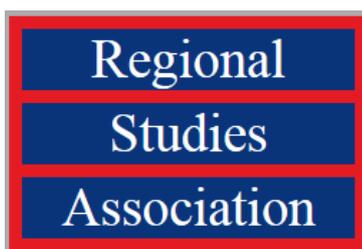
This book consists of four main parts. The first part is concerned with forming concepts, definitions, and overviews. Change in land management policies, research topics, and issues on landscape management are dealt with in the second part. The third part consists of case studies on landscape management labor accounts. Major landscape types chosen for case studies include urban areas, flatland farmlands, Satoyama, and coastal neighborhoods. In the last part of this section, integration methods to develop landscape management labor accounts on different scales are considered. The fourth part of the book is a detailed exposition of contemporary trials to solve issues of land management for the future in the field of urban, rural, forest, river, and coastal planning. Also discussed is the

connection of ecosystem service studies and perspectives on the development of landscape management labor accounts with world landscape management research.

More information at:  
[www.springer.com/de/book/9789811022777](http://www.springer.com/de/book/9789811022777)



## Landscape governance – meeting new challenges



In the environmental gateway at the annual conference of the Regional Studies Association in Dublin, *4-7 June 2017*, the topic of landscape plays a leading role. There will be also a special session on “**Landscape governance – meeting new challenges**“.

Deadline for abstract submission and registration is Friday, 24 February 2017.

Here you can find the Call for papers:

[www.regionalstudies.org/conferences/special-sessions/ss-dublin-2017](http://www.regionalstudies.org/conferences/special-sessions/ss-dublin-2017)

## IaleUK Conference 2016



This year's iale UK conference was on the topic of Landscape Characterisation. This included exploring the latest developments in characterisation, classification and assessment, including methods for engagement and participation, use of open data and spatial analysis techniques.

In the UK, Landscape characterisation started to really blossom with the publication of the National [Character Area Map](#) of England, which mapped and described 159 areas of distinctive character across the country. Soon after in 2002, the [Landscape Character Assessment Guidance for England and Scotland](#) (LCA) was published by The Countryside Agency (now called Natural England), Scottish Natural Heritage, and written by Carys Swanwick, Department of Landscape at the University of Sheffield and Land Use Consultants. Aimed at practitioners, the guidance provided a framework to inform decision-making from land managers to policy makers as well as guiding research in the UK and overseas. It became a very influential document that went on to inform national policy, design guidance, sensitivity and landscape capacity studies and much more!

*"It was a real pleasure to attend this conference, not only because it was a chance to learn about current methods and applications in LCA, to meet fellow landscape ecologists, but also because many of the iconic figures that 'made LCA' whom I had admired during*

*my early career days were speaking at the conference. These most notable included Carys Swanwick (mentioned above) and Steven Warnock, the inventor of Landscape Description Units (LDUs), which underpinned many subsequent character assessment at the regional scale. Less familiar to me, were some excellent speakers from Historic England talking about Historic Landscape Characterisation, which I now understand has been completed for the whole of England"* says Rosie Whicheloe from Ecology Consultancy UK.

Unlike other chapters, ialeUK always has a good attendance of practitioners and this conference was no exception. LCA is probably one of the most widely known and well used landscape characterisation technique and is used to inform Environmental Impact Assessments. There was also good attendance from universities and local government from the UK and further afield who presented a range of techniques to assess ecosystem services, public perception and ecologically connectivity.

The conference venue and all excursions and activities were excellent. For the first time, the field visit was held in the middle of the 3-day event allowing those unfamiliar with LCA to hear from the experts whilst walking around the historic landscape at Whittingham Clumps in Oxfordshire. There was also an opportunity to learn about a new re-wilding project called the River of Life run by the [Earth Trust](#) on The River Thames.

*"I attended a lot of events, and many tend to have the same problem, they lack diversity (aka too many people with the same background doing the same type of job), but Landscape Ecology, particularly ialeUK events, impressed me as having the right mix of different professions, perspectives and experience. If you are at a loose end in June 27-29th next year for ialeUK's 25th Anniversary conference, I highly recommend attending – I'm sure it will be a good one!"*

by [Rosie Whicheloe](#)  
(Ecology Consultancy UK)





Photo by Christine Fürst



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:** Christine Fürst 2015-2019, 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); **Secretary General:** Thomas C. Edwards 2015-2019, U.S. Geological Survey, Utah State University, 5230 Old Main Hill, Logan, UT 84322-5230, USA, [t.edwards@nr.usu.edu](mailto:t.edwards@nr.usu.edu); **Treasurer:** Irene Petrosillo 2015-2019, University of Salento, 73100 Lecce, Italy, [irene.petrosillo@unisalento.it](mailto:irene.petrosillo@unisalento.it); **Past President:** Felix Kienast 2011-2015, Swiss Federal Institute of Forest, Snow and Landscape Research, CH-8903

Birmensdorf, Switzerland, [felix.kienast@wsl.ch](mailto:felix.kienast@wsl.ch); **Vice Presidents and their role in the Executive Committee:** Henry Bulley 2015-2019 (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); Andreas Aagaard Christensen 2015-2019 (Europe; Tasks: Communication with the chapters), University of Copenhagen, Rolighedsvej 23, 1958 Frb. Copenhagen, Denmark, [anaach@ign.ku.dk](mailto:anaach@ign.ku.dk); Robert M. Scheller 2013-2017 (North America; Tasks: Initiation, coordination and monitoring of the WGs and their contributions), Portland State University, P.O. Box 751, Portland, OR 97207 USA, [rmschell@pdx.edu](mailto:rmschell@pdx.edu); Liding Chen 2013-2017 (Asia; Tasks: Monitoring and reporting on regional & international IALE events for organizing EC & Chapter meetings), Chinese Academy of Sciences, 18 Shuangqing Road, Haidian District, Beijing, 100085, China, [liding@rcees.ac.cn](mailto:liding@rcees.ac.cn);

**Bulletin Editor and Deputy Secretary General:** Benjamin Burkhard 2015-2019, Leibniz University Hannover, Schneierberg 50, 30167 Hannover, Germany, [burkhard@phygeo.uni-hannover.de](mailto:burkhard@phygeo.uni-hannover.de); **Chairman of Council:** Xiuzhen Li 2015-2019, East China Normal University, Shanghai 200062, China, [lixz@iae.ac.cn](mailto:lixz@iae.ac.cn); **Publicity Officer:** Emilio Padoa-Schioppa, University di Milano-Bicocca, p.za Della Scienza 1, 20126 Milano, Italy; [emilio.padoaschioppa@unimib.it](mailto:emilio.padoaschioppa@unimib.it).

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

**Bulletin Deadline**

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PLEASE: Send your contributions to the Bulletin Editor Benjamin Burkhard [burkhard@phygeo.uni-hannover.de](mailto:burkhard@phygeo.uni-hannover.de)