

US-IALE Newsletter

Winter 2013

Winter 2013
Volume 28/1

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US-IALE 2013 Annual Symposium

Landscape Dynamics along Environmental Gradients

April 14-18, 2013

Austin, Texas

The US-IALE 2013 Annual Symposium is fast approaching and the planning committee has been hard at work. Some highlights of the upcoming symposium are:

- 220 oral and 60 poster presentations
- Three great plenary speakers: Fredrick Steiner, Glen MacDonald and Maria Uriarte.
- Four workshops whose topics will include Machine Learning, Pattern and

Connectivity Analysis, Data Management and Land Cover Change Modeling.

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Downtown Austin and Lady Bird Lake

Photo by Trent Shepherd

President's Message



Kurt Riitters, US-IALE President

Greetings everyone! Thanks to Emily Minor, we have yet another interesting Newsletter packed with information about our Chapter. Here, I will review just a few items of general interest, but not before asking each of you to consider if and how you can help your Chapter. Perhaps you could participate more fully in the Chapter's committees and events, invite your non-member colleagues to become members, contribute a part of your wealth to

the Chapter's activities, stand for election to an office, or contribute in some other way something which you feel would benefit the Chapter. I know that many of you have already responded to calls for assistance in various events at the upcoming Symposium, and your help is deeply appreciated. Thank you all for being part of this community!

Two items of general interest follow your recent approval of changes to our by-laws. First, I am pleased to formally appoint Anita Morzillo to the newly-approved position of Membership Liaison.

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Message from the Membership Liaison



Anita Morzillo, Membership Liaison

In 2012, the US-IALE Executive Committee (EC) voted to add a new position of Membership Liaison to the EC group. I have been serving in this role for the past year at the request of Chapter Presidents. Following members' recent approval of a by-law change, the Membership Liaison is now a voluntary, non-voting EC position to which an individual is appointed by the President with approval by the EC. Following EC approval, I was appointed as your official Membership Liaison.

The objective of the membership liaison is to answer questions and facilitate communication of membership information within the society. In the past, those items have been handled by a Membership Secretary and, more recently, by our webmaster Matt Viehdorfer. During the past couple of years, a large effort has been made to consolidate at least a decade of membership records. Now that US-IALE is operating with an almost-completely elec-

tronic membership payment system, we are working on streamlining the information for more-efficient and consistent recordkeeping. Although Matt has been doing a wonderful job, it is more appropriate for a member of the society to manage this information.

For the past six months and with a LOT of help from Matt, I have been learning the membership database structure and tasks associated with membership recordkeeping. Matt and I also have been working as a team with other EC members to develop and prioritize tasks that will allow society members better access to their membership information and simplify the consolidated database structure so that I can answer your questions more efficiently and quickly.

Unfortunately, our work also has uncovered some issues. Most importantly, inconsistent recordkeeping has revealed many differences between actual and perceived membership records. Results of such inefficiencies include significant and continuous lost revenue from membership renewals and conference registrations, mis-matches of recorded and perceived individual membership tenure, and inaccurate tracking of membership enrollment year after year. We are taking steps

to minimize these issues for overall better recordkeeping.

On a positive note, we are pleased to share a few updates. Starting in 2013, the membership year will follow the calendar year (January-December) rather than October-September. These dates will be easier to remember, and more closely align the annual membership cycle with the USIALE annual symposium in the early spring. Matt also is completely overhauling the back-end of membership recordkeeping to update our system with newer software that will help us manage data more efficiently. This renovation will take several months to complete, but will result in many improvements including the ability for members to automatically check their membership ID numbers, membership status, date of last payment, and to recall the member username and password. Also in progress is development of an automatic reminder about membership expiration dates and renewals.

Please feel free to contact me at membership@usiale.org if you have any questions. We appreciate your patience during this transitional period.

—Anita Morzillo
US-IALE Membership Liaison

Secretary's Report

New US-IALE Bylaws

I am pleased to announce that our members voted unanimously to approve the addition of two new articles to our bylaws. Article 22 establishes a standing committee on policy, which will function as an interface between landscape ecologists and decision makers. Article 23 establishes a new position, the Membership Liaison, who will serve as the primary point-of-contact between individual members and the Chapter. You can read more about these changes in the [President's address](#) by Kurt Riitters and the [Message from the Membership Liaison](#) by Anita Morzillo.

—Emily Minor
Secretary, US-IALE

Message from IALE

Where is the future of Landscape Ecology and IALE?



Felix Kienast
President IALE
International

Landscape ecology is an interdisciplinary science. It deals with complex environmental processes at multiple spatial and temporal scales. While the interdisciplinary nature and the focus on space-

time processes are shared with other fields as well (e.g. spatial ecology or bio-geochemistry), the subject of interest – “landscape” – is unique to landscape ecology. Some of the important events in the course of the history of landscape research include, the promotion of the terms landscape architecture in 1828 (Frederick Law Olmsted, designer of Central Park in the city of New York), landscape ecology in the 1930s, and

the founding of the International Association for Landscape Ecology (IALE) in the 1980s.

We have seen IALE transform from a “classic” society with a unique world-wide theme – “Landscape Ecology” – into a multi-faceted professional society that promotes new and challenging spatially related concepts. Imagine what the world would look like without IALE. Thanks to IALE we see greater awareness for cultural landscapes throughout the world. Our society furthers awareness of indigenous knowledge and disseminates scientific knowledge through books and our own ISI Journal, Landscape Ecology. We are proud to see that IALE provided and is still providing intellectual backgrounds for important emerging fields such as Landscape Genetics, Urban ecology, and place-related studies.

Thanks to our regional struc-

ture, our society is one of the few that is able to bridge the gap between regions, continents and the entire world. We also recognize that the worldwide spread of landscape-related research after 1980 challenges and complements the paradigms of landscape research. We see emerging research centers in Asia, South America and Africa that voice their views about landscape values and will contribute to a wider understanding of space, place and changes in time. Please consult the IALE Webpage (www.landscapeecology.org) to learn more about the multi-faceted chapters that build the body of IALE, e.g. the US-IALE, IALE China, the South American Chapters, IALE Germany and the British IALE chapter, to mention only a few. In order to strengthen the input of landscape ecology in related fields, we also started talks with other professional societies. A formal collaboration with the Ecosystem Service

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Socioeconomics drive woody invasive plants in New England

Contributed by Jenica Allen

Winner of Best Student Presentation Award 2012

Invasive plants are an increasingly common component of Northeastern US forests. The first documented occurrences of some species date back to the mid-nineteenth century, with invasive populations taking hold in the early twentieth century in some places. However, the invasion process takes place over space and time, so some areas have not yet been heavily invaded. Early detection and management prioritization may help curb the spread of invasive plants across this region, but in order to effectively monitor and manage, we need maps that predict where and how abundantly these problematic species are likely to grow.

The problem we face is multi-faceted. At large spatial scales, species occurrence patterns are driven largely by climate, but also by land use and land cover. Particular species responses to climatic factors have been delineated and these predictions provide a coarse guide for where to species are likely to grow (or not). At small spatial scales, spe-



Jenica Allen, winner of Best Student Presentation Award 2012

(Continued on page 12)

Student News and Notes



Julie Ripplinger (left) and Molly Van Appledorn (right), student representatives

We have 4 events scheduled for graduate students at the 2013 US-IALE meeting in Austin, Texas, plus some great opportunities.

The **Student-Mentor Lunch** will be held on Monday, April 15 from noon to 1pm. This event brings students and landscape ecology professionals together to discuss professional development issues in a small group setting. Both students and professionals register in advance for this event through the conference registration process and indicate their current work (professionals) or prioritize their desired future occupation (students) from these categories: academic, federal government, state or county agency, non-profit, or business. We will try to match students and professionals according to their

professional aspirations. This event is free, but registration is mandatory.

The **Student Social** will also be held Monday, April 15, from 9pm to 11pm. Come meet your fellow student landscape ecologists! Complimentary appetizers and limited bar services will be offered courtesy of US-IALE at a local hotspot. All students welcome!

The **Graduate Student Professional Development Workshop** will be held on Tuesday, April 16, from 1:00 to 4:30 pm. This year's workshop, titled "Data Management For Landscape Ecologists," will feature professionals from landscape ecology, library science, and the Data Observation Network for Earth (DataONE). Workshop topics we will cover include: advances in data management technology, how to efficiently manage your own geospatial data and literature libraries, and strategies for improving --or even beginning!-- metadata scripting for your own use. Space is limited to the first 50 students to register.

To foster interaction between students and professional landscape ecologists, we've asked non-students

to **Pick Up the Tab** for student drinks at the pre-banquet evening social, Wednesday, April 17 before the Awards Banquet, from 6 to 7 pm. Students will receive drink coupons, compliments of participating landscape ecology professionals, then students find and introduce themselves (over the complimentary beverage!) to their generous benefactors. This is a great way for you to meet current landscape practitioners in an informal, relaxed setting.

Students wishing to **receive constructive feedback on your oral or poster presentation** from practicing landscape ecologists may request that your presentation be

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Need a roommate for the symposium?

Check the box during online registration to get email addresses for other registrants looking to share!

Want to get more involved with US-IALE?

We are still looking for nominees for the student representative position for 2012-2014.

US-IALE's student activities are coordinated by two student representatives, who have overlapping two-year terms, with 1 position replaced each year to ensure continuity. The student representatives also serve on the executive committee which allows you to meet many professionals in your field through participation in the executive committee and gives you insights into way a national scientific organization functions. If you want to get involved or have questions, contact Julie or Molly!

Julie Ripplinger: julie.ripplinger@asu.edu

Molly Van Appledorn: mvanapp@umbc.edu

US-IALE Winter 2013 Awards Update

The Awards Committee is looking forward to announcing winners for some or all of the following awards at the 2013 annual banquet in Austin, Texas. The nomination period closed Friday, 1 February 2013.

Further information about each award and a complete list of past award recipients can be found at <http://usiale.org/awards>

Outstanding Paper in Landscape Ecology

The Awards Committee reviews nominations for papers published during the past year that make an outstanding contribution to the literature of the field of landscape ecology. In 2012, the outstanding paper award was presented to Uriarte et al. (2012) for their publication "Disentangling the drivers of reduced long-distance seed dispersal by birds in an experimentally fragmented landscape" in *Ecology* (92:924-937). Honorable mention was awarded to Svenning et al. (2012) for "Geography, topography, and history affect realized-to-potential

tree species richness patterns in Europe" in *Ecography* (33:1070-1080).

Distinguished Landscape Ecologist

The intent of this award is to recognize unique individuals whose long-term scientific contribution have helped to define the field of landscape ecology, and is the most prestigious award presented by our Chapter. Recent recipients include David Mladenoff (2012), Lenore Fahrig (2011), Jianguo "Jingle" Wu (2010), and Joan Iverson Nassauer (2010).

Further information about each award and a complete list of past award recipients can be found at <http://www.usiale.org/awards>

Distinguished Landscape Practitioner

The intent of this award is to recognize outstanding applications of the principles of landscape ecology to real-world problems. Recent recipients include the United States National Park Service's Inventory and Monitoring (I&M) Program (2012), Wes H. Jackson (2010) and Kevin McGarigal (2009).

Distinguished Service Award

The intent of this award is to recognize individuals who have contributed exceptionally in terms of time, energy, and dedication to advance the mission of US-IALE. Recent recipients include Jingle Wu (2012) and Monica Turner (2010).

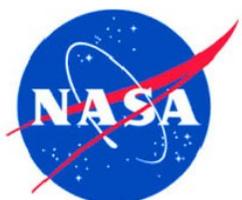
Best Student Presentation

The intent of this award is to recognize the best presentation (oral or poster) given by a student at the pre-

(Continued on page 10)

NASA-MSU Professional Enhancement Awards Update

The NASA-MSU Professional Enhancement Awards are made possible by the support from the National Aeronautics and Space Administration (NASA) and Michigan State University (MSU). This year will be the 16th consecutive year of the program. The selected students have opportunities to meet with some leading landscape ecologists at a special dinner gathering, to learn the latest developments in landscape ecology, and to build professional networks with other conference attendees. Approximately 20 students have received awards for the upcoming USIALE annual symposium in Austin, Texas.



Foreign Scholar Travel Award Update

The purpose of the FSTA is to provide support for landscape ecologists from foreign countries to attend the annual US-IALE symposium and to foster international exchange about advances in landscape ecology. This year we are proud to say that in addition to the two annual awards supported by US-IALE, we received funding from IALE International to support three additional foreign scholar awards!! Winners are selected based primarily on high quality scientific endeavors that advance landscape ecology, but early career scientists with demonstrated financial need also receive high priority. If you missed the application deadline for this year's symposium, please consider applying for the award next year. More details on eligibility and the selection criteria can be found on the US-IALE website (<http://www.usiale.org/fst-award>).

We received nine applications this year representing six countries: Bangladesh, Brazil, China, South Korea, Spain, and Turkey. Special thanks to Nancy McIntyre

(Texas Tech Univ.), Robert Corry (Univ. of Guelph), Tammy Wilson (National Park Service), Deahn Donner (U.S. Fish & Wildlife Service), and Anne Kuhn (U.S. EPA) for taking the time to carefully review and rank all the applications. Winners will be announced at the annual symposium in Austin, Texas.

During the symposium, we will be holding the annual Silent Book and Software Auction. Please remember to donate any books you may have on your shelves...old and new are greatly appreciated. There will be tables at registration for you to drop off your goodies. Also, don't forget to bid early and often on the great items that will be available at the auction. Proceeds from all sales directly fund the FSTA scholarships.

**—Kathy Vigness-Raposa, Chair
Foreign Scholar Travel Award Committee**

BOOKS NEEDED!

Please consider donating books to the silent auction

Treasurer's Report

I am pleased to provide our winter 2013 Treasurer's Report. Our finances continue to be stable. As of January 31, 2013, our net worth is \$123,850. This figure is comparable to our net worth over the past twelve months (January 2012: \$128,900; July 2012: \$111,300). Our primary income sources in 2012 were membership dues (\$8,780), with some additional revenue provided by interest payments (\$1,234) and donations. Memberships continue to cover operating expenses. Operating expenses are similar to past years, although costs have increased for some categories. Our Newport, Rhode Island meeting was a success with 303 registrants. The conference generally broke even (-\$748), with income (\$111,928) nearly covering expenses (\$112,676). US-IALE awarded \$4,150 for student travel to the 2012 meeting (FSTA: \$1,200; Student travel award: \$2,950). In addition, \$450 was awarded for student presentations. Additional details of the 2012 budget will be reported at the 2013 meeting in Austin, Texas.

**—Michelle Steen-Adams
Treasurer, US-IALE**

President's Message (cont.)

(Continued from page 1)

The Membership Liaison is a volunteer ex-officio member of the US-IALE Executive Committee and a point of contact for members to communicate with the chapter and webmaster. As you know, Anita has informally served in that capacity for some time, and she brings a wealth of knowledge and experience to the position. Second, following the commendable organizing efforts of Joan Nassauer and others, members also approved the creation of a standing committee on Public Policy which will function as an interface between landscape ecology experts and policy or decision makers. Members of the committee will be representative of a range of public policy experiences at local to national scale. If you are interested in serving on this new committee, please inform me, the Membership Liaison, or a member of the Executive Committee of your interest.

I am looking forward to seeing each of you at the Annual Symposium in Austin! Wendy Gordon, Tim Keitt, and Ken Young have done a fantastic job of organizing what promises to a great Symposium with very interesting plenary talks and field trips. As usual, there is a lot of emphasis on student participation and activities, which is perhaps not surprising since about 40% of our members are students. Thanks to our Student Representatives Molly Van Appledorn and Julie Ripplinger, the Symposium includes a Student-Mentor Lunch, a Student Social, and the famous "We'll pick up the tab" Social. I urge regular members to support your students by helping them to attend and by introducing them to the rest of us at the Symposium. For anyone who has not yet attended

a Symposium, please make this the year to start your own new tradition!

The realization of the strong influence that students have in our Chapter got me thinking about recent comments on the maturation of the discipline of landscape ecology. In his President's farewell message (June 2012 Newsletter), Dean Urban suggested that maturation is signaled by the transition of our discipline from an interesting science enterprise to a useful service enterprise. In contrast, in his Perspectives article as editor-in-chief of our flagship journal (DOI 10.1007/s10980-012-9836-y), Jianguo Wu suggested that our discipline is not yet mature because our literature demonstrates that our core questions are still being formed. My take is that both are correct – Dean refers to *why*, while Jianguo addresses *how* we approach our science. Our discipline is simply "older than its years;" it is a mature child with the right intentions but rudimentary life skills. I cannot imagine a better context for students to begin their engagement in landscape ecological sciences – academic freedom to explore "radical" thoughts with an open mind, with some assurance that it's not just a waste of time. Hmm... that is eerily reminiscent of what drew me to this discipline several decades ago, and what keeps me here today.

**—Kurt Riitters
President, US-IALE**

**Join us on FACEBOOK for
up-to-date information**

<http://www.facebook.com/usiale>



US-IALE 2012 Annual Symposium (cont.)

(Continued from page 1)

- 4 separate symposia in which talks will focus on Phenology, Forest Ecosystems, Modeling and Landscape Genetics.
- 4 different field trips highlighting local research sites (LBJ Wildflower Center and Brackenridge Field Lab) and the Edwards Plateau (Balcones Wildlife Reserve and Enchanted Rock State Natural Area).

We are excited about hosting all of you this April 14-18 at the Sheraton Austin at the Capital. Follow the links below for more information, to register, and to become a member of US-IALE.

Meeting Website: <http://www.usiale.org/austin2013/>

On-line Registration: www.cvent.com/d/ccqrxw/4W

US-IALE Membership (Become a member for discounted conference registration):
<https://knothole.forestry.oregonstate.edu/usiale/membershipnew/memberstep1.aspx>

— US-IALE 2013 Program Committee
Wendy Gordon, Local Host
Tim Keitt and Kenneth Young, Program Chairs



Enchanted Rock State Natural Area, Texas

Photo from www.tpwd.state.tx.us/state-parks/enchanted-rock

Awards Update (cont.)

(Continued from page 5)

vious annual meeting. The award includes a \$300 cash award, a waiver of one future meeting registration fee, and one complimentary attendance on a fieldtrip or at a workshop of the awardee's choice at a future annual meeting. Waiver of registration and fieldtrip or workshop fees may be applied to one of the next two subsequent US-IALE annual meetings. We congratulate the winner from the 2012 meeting, Jenica Allen (University of Connecticut), for "Socio-economics drive invasive plants in New England through forest fragmentation", and honorable mention recipient Steven Collins (Texas Tech University) for "Developing species distribution models for riverine dragonflies with multiscale environmental parameters." Jenica and Steven will be acknowledged at the banquet at the 2013 meeting in Austin.

US-IALE Sponsored Student Travel Awards

For the fifth year in a row, US-IALE is offering sponsored student travel awards. Up to ten awards for up to \$500 will be offered for attendance at the 2013 meeting in Austin.

—The 2012-2013 US-IALE Awards Committee

Todd Lookingbill (co-chair), Anita Morzillo (co-chair), Pete August, Jeff Hollister, & Steven Walters

Message from IALE International (cont.)

(Continued from page 3)

Partnership was established in 2011/12 and will strengthen IALE and its unique focus on landscapes.

Despite this success, however, IALE membership is slightly decreasing, be it due to the financial crisis in many parts of the world, or the currently observed trend for short-term commitment by individuals to professional societies. Decreasing membership unfortunately means decreasing IALE funds available for regions, early career travel support, or loans. Thus IALE needs to increase income with a number of measures, including: (a) donations from larger organizations or private sponsors; (b) stronger participation in the financial success of IALE sponsored meetings, and; (c) increased membership fees. The last of these is currently being discussed among the IALE council members, and we are actively seeking ideas from the membership at large on how best

to increase our funding base.

IALE International is proud to return 80-90% of our income to the regions in the form of early career support, loans or the support for newly emerging regions. This year, the US-IALE annual meeting in Texas in April 2013 and the IALE-Europe meeting in fall 2013 in Manchester profit from this support. IALE International is delighted to support the US-IALE Foreign Scholar Travel Program to enable three foreign scholars to attend the Austin, TX meeting in April.

I conclude by encouraging you to support IALE, to spread the word to those that are not yet members, and to be part of a society which helps improve the places of people through sound scientific knowledge!

—Felix Kienast
President IALE International

Is there something you'd like to see in the next newsletter?

Send your suggestions to eminor@uic.edu

Most Cited Papers in Landscape Ecology

The following list contains the ten most highly cited papers published
in *Landscape Ecology* in the last five years

(From ISI Web of Knowledge, Feb 2013)

AUTHORS	TITLE	YEAR	TIMES CITED
Trembl, EA; Halpin, PN; Urban, DL; Pratson, LF	Modeling population connectivity by ocean currents, a graph-theoretic approach for marine conservation	2008	77
Shao, GF; Wu, JG	On the accuracy of landscape pattern analysis using remote sensing data	2008	60
Concepcion, ED; Diaz, M; Baquero, RA	Effects of landscape complexity on the ecological effectiveness of agri-environment schemes	2008	57
Balkenhol, N; Gugerli, F; Cushman, SA; Waits, LP; Coulon, A; Arntzen, JW; Holderegger, R; Wagner, HH	Identifying future research needs in landscape genetics: where to from here?	2009	54
McDonnell, MJ; Hahs, AK	The use of gradient analysis studies in advancing our understanding of the ecology of urbanizing landscapes: current status and future directions	2008	54
Kindlmann, P; Burel, F	Connectivity measures: a review	2008	53
Verburg, PH; Overmars, KP	Combining top-down and bottom-up dynamics in land use modeling: exploring the future of abandoned farmlands in Europe with the Dyna-CLUE model	2009	49
Smith, AC; Koper, N; Francis, CM; Fahrig, L	Confronting collinearity: comparing methods for disentangling the effects of habitat loss and fragmentation	2009	44
Nassauer, JI; Opdam, P	Design in science: extending the landscape ecology paradigm	2008	44
Termorshuizen, JW; Opdam, P	Landscape services as a bridge between landscape ecology and sustainable development	2009	41

Socioeconomics and Invasive Plants (cont.)

(Continued from page 3)

species demography varies dramatically from one habitat type to another, yielding good information for prioritizing on-the-ground management. But what of intermediate scales, such as one area of a forest versus another? Are there landscape characteristics that would allow us to predict not just species occurrence, but richness? And if such relationships between invasive richness and landscape characteristics exist, can we explain where those invaded landscapes are, such that we can make future predictions?

My dissertation research attempted to answer these questions using a combination of publically available data, citizen science data, and statistical modeling as part of an invasive plant research group at the University of Connecticut and Duke University. My colleagues and I focused on woody plants in particular because they are the most prevalent group of terrestrial invasive plants in New England. Using remotely sensed land use/land cover data, we classified forests into four classes (core, perforated, patch, and edge) based on their geometry and position relative to non-forest land use/land cover types. We spatially linked these forest fragmentation data to socioeconomic data from the US Census in addition to other data such as elevation range and road den-

sity. Invasive species richness data came from the Invasive Plant Atlas of New England (IPANE), a decade old citizen science project focused on documenting invasive plant distributions and early detection of new, potentially problematic species.

Using a set of spatially-explicit, hierarchical Bayesian models, we determined that landscapes with many forest edges fostered the highest number of woody invasive plants and that these “edgy” landscapes were most common in places easily accessible to people (characterized by low elevation range, high road density, and high population), but not heavily urbanized. We learned that a relatively small landscape, about 1 km around each richness observation point, had a significant impact on the richness of woody invasives and that physical and socioeconomic characteristics helped determine forest fragmentation patterns. The use of spatial Bayesian methods allowed us to create maps of uncertainty that can guide additional data collection and exploration. Our future research involves extending our explanatory models to predict woody invasive plant richness under future land use/land cover and climate change scenarios.

—**Jenica Allen**

Benefits of Membership

Membership offers discounts to annual meetings and subscriptions to the journal *Landscape Ecology*.

Our annual meetings continue to expand and offer state-of-the-science access for meeting participants. We also have a very active student group who strives to engage the next generation of landscape ecologists. The [US-IALE website](#) and [FACEBOOK](#) are focal venues for students and all members to keep in touch.

The bi-annual newsletter keeps you up to date with the organization’s current happenings, new efforts in which the organization is engaged, and timely articles with a landscape ecology focus. The Newsletter will continue to expand to include important news for members as well as job announcements, meeting announcements,

etc. As a member, if you have an article you would like to see in the Newsletter, contact the US-IALE Secretary.

Our website is a ready resource for landscape ecologists. Have you checked it out lately? We (the Executive Board) would like to encourage you to promote the organization and its resources to your colleagues, friends, and students.

This is a great organization—consider getting involved. Please contact one of the members of the Executive Committee for more information.

Joining is easy. Check us out at:

[US-IALE Membership Information](#)

Current US-IALE Officers

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Have a question for
US-IALE? — contact any
member of the
Executive Committee

U.S. Regional Association of the International Association for Landscape Ecology

US-IALE's purpose is to

- **foster landscape ecology in the United States**
- **provide a link among practitioners in landscape ecology within the United States as well as the international community**
- **promote interdisciplinary research and communication among scientists, planners, and other professionals concerned with landscape ecology**

Who Would Benefit from US-IALE Membership?

Landscape Architects
Land and Nature Managers
Land Use Planners
GIS Specialists
Wildlife Biologists

Ecologists
Conservation Biologists
Biogeographers
Spatial Statisticians
Ecosystem Modelers



US IALE on the Web

iale
International Association
for Landscape Ecology

IALE on the Web