



# Bulletin

## International Association for Landscape Ecology

### FIRST EDITOR OF LANDSCAPE ECOLOGY STEPS DOWN

Frank Golley has been involved in landscape ecology since he faced the importance of the spatial difference between a predator and its prey in his dissertation research. When North Americans gathered at Monticello, Illinois in 1983, to assess the possibilities of fostering the landscape approach as a new subdiscipline in ecology, Frank was an active participant. Within two years he had decided that landscape ecology could add value to ecological research, but only if landscape ecology was demonstrated to be a scientific paradigm. That required an international journal demonstrating that concepts of landscape ecology were testable with measured variables, could be parameterized for simulation modelling and were appropriate for derivation of general theory in the context of other current science.

Frank initiated the international journal *Landscape Ecology* and took on the major responsibility of making it display the contributions which landscape ecology could make to the science of ecology. But Frank was well aware that the science of landscape ecology must interact with other approaches to the real problems of the world; he explored the interface with Environmental Ethics, he taught workshops in regions where development was changing the landscape processes and he kept abreast globally. Frank never lost the focus on making *Landscape Ecology* a scientific journal and making it an effective means of communication amongst peers. He assured the critical review necessary to the credibility of any scientific paradigm. All the practicalities of a prompt but critically reviewed print journal would have overwhelmed Frank, but his partner, Priscilla Golley, also committed herself to Landscape Ecology and contributed vitally to the new journal's stature.

All landscape ecologists should thank Frank and Priscilla for increasing the odds that the scientific findings of our paradigm will gain acceptance in the considerations of global futures.

Gray Merriam  
Landscape Ecology Laboratory  
Carleton University  
Ottawa, Canada

### IALE DUES

At the IALE Congress in Toulouse, France, in 1995, an increase in IALE dues from US\$ 10 to US\$ 20 was approved by the membership, to be effective in 1996. Because of the change-over in officers of IALE, it was difficult to implement this change immediately. More importantly, it became apparent that the financial dealings of the organization had not been communicated to the membership. Although IALE dues have remained at US\$ 10 since the organization was created 15 years ago, and a dues increase is overdue, I do not believe that we should take such action without justifying it to the membership. Rob Jongman, the IALE treasurer, has prepared an overview of 1996 finances and a projected 1997 budget, which is included in a condensed form in this bulletin. We are quite anxious to make IALE a more dynamic organization that is really useful to its members – things like expanding the IALE bulletin and developing a fund to support activities of landscape ecologists from economically disadvantaged countries. This takes money. Nonetheless, it is even more important that IALE retain the good will and support of its membership.

Therefore, the IALE Executive Committee has decided to retain the present US\$ 10 dues rate through 1997, implementing the dues increase to US\$ 20 in 1998. Those of you who have already paid 1997 dues at the US\$ 20 rate, may have the excess applied to the 1998 dues by writing to the IALE treasurer.

This action will delay some of the new activities which we wanted to initiate in IALE. In lieu of the dues increase, we will shortly be asking for contributions to get these activities underway. You are forewarned!

Let me take this opportunity to ask you to let me know of ways in which IALE can be of greater use to you, or of actions which IALE could take to enhance the growth and stature of landscape ecology as a discipline.

John Wiens

**REPORT OF THE TREASURER OF IALE FOR 1996**

The first thing which has been done by the present treasurer is to transfer the money from the accounts in the USA and Italy to the new account in the Netherlands, and to close these accounts. The Danish account was closed at the end of December, and the Postbank in the Netherlands has been asked to transfer the remaining funds from the former Dutch account to the new one.

The number of paying members is unclear at the moment, as the administration is not in order, however, this is currently under revision. Students have a good job in correcting the addresses! Requests for payments due were only sent out during the last year through the letter for the new directory. We hope to have everything in order in 1997. All members in the USA, Canada, Italy, Denmark and the UK are supposed to pay directly through their respective regions. On our directory enquiry we received a few payment orders from these countries. We tried to avoid cashing them, but some may have slipped through. In this case, I apologize, and please contact me for correction. The rest of the members will receive a payment request in 1997.

It is clear that not all money spent in 1996 can be audited correctly. An overview of IALE payments made by the former treasurer does exist, however, no invoices are available. The same must be said for the Italian and Danish accounts. The WLO account is a former IALE account which has not been used for several years. The income is calculated on the amount which has been transferred to the present treasurer. Before 28-02-1996, the official IALE account in the USA received US\$ 310 (Canadian fee), US\$ 700 (Japanese fee), and paid US\$ 400 for the bulletin, as well as small expenses by the previous treasurer, US\$ 500.

**BUDGET PLAN IALE 1997 (in NLG)****Income:**

Fees, ± 750 paying members *US\$ 10/NLG 18	13 500
Closing balance from 1996	9 574
Danish account (estimate)	2 300
WLO account	1 294
US fee 1996	pm
Interest	50

**Total** 26 718

**Reserved funds (01-01-1997)**

Support fund 4 000

**Costs:**

Executive Committee meeting (1x)	5 500
IALE Bulletin 6 x 600	3 600
Mailing	2 500
Paper/envelopes/labels	2 200
Computing assistance	1 000
IALE directory 1997	5 000
Promotional material	2 000
Representation IALE	1 500
Support fund	2 000
Unforeseen	2 000

**Total** 26 700

**Explanation:***General*

The Executive Committee will meet at least once in 1997, by utilising a meeting in Northern America or Europe, where some members will already be present. Others will try to attend on institutional costs, but if this is not possible, IALE will cover the costs.

The Bulletin will be sent out six times. Directory and correct addresses which are required for this purpose, will be available at the beginning of January.

The budget for 1997 is correct, but as you can see, if the fee is not raised in 1998, the income is insufficient to pay organization costs, due to the reserve funds being used for fee payment not paid by all members. We have an important task to fulfill in 1997 in bringing IALE back as a living and healthy organization.

*The IALE directory 1997*

In 1997 a new IALE directory will be made. We are planning to update it regularly, and to provide additional information to enhance exchange and cooperation possibilities. The budget is an estimation based on printing costs, mailing costs, and editing.

Editing	1 000
Printing	2 000
Mailing	2 000

The costs for this directory will be paid from the 1997 budget. Later directories can be paid from money reserved annually, therefore costs will not be budgeted in one year.

Rob Jongman

The IALE Bulletin is distributed six times a year to the members of the IALE. The IALE – International Association for Landscape Ecology – was founded in 1982 to promote communication between scientists, planners and interdisciplinary scientific research. IALE Executive Committee: President, John A. Wiens (USA), Fax: +1 970 491 0649, e-mail: jaws@lamar.colostate.edu; Past President, Henri Decamps (France); Vice-Presidents, Joan Iverson Nassauer (USA), Paul F.M. Opdam (The Netherlands), Almo Farina (Italy), Xiao Duning (China); Secretary General, Michael Moss, Faculty of Env. Science, Blackwood Hall, Trent Lane, University of Guelph, Ontario N1G 2W1, Canada, Tel: +1 519 824 4120, Fax: +1 519 763 4686, e-mail: mike@envsci.uoguelph.ca; Deputy Secretary General and Bulletin Editor, Jesper Brandt, Inst. of Geography & International Development Studies, Roskilde University, P.O. Box 260, DK-4000 Roskilde, Denmark, Tel: +45 46 757 781 ext. 2463, Fax: +45 46 753 970, e-mail: brandt@geo.ruc.dk; Treasurer, Rob Jongman, WAU, Dept. of Physical Planning & Rural Development, Gen. Foulkesweg 13, NL-6703 Wageningen, The Netherlands, Tel: +31 317 483 713, Fax: +31 317 482 166, e-mail: rob.jongman@plano.rpv.wau.nl.

**Deadline Bulletin volume 15: March 10, 1997**

**FIRST COLUMBIAN LANDSCAPE ECOLOGY SYMPOSIUM**

Bogota, 4-6 September 1996

The Symposium took place at the Institute for Environmental Studies for Development of the Javeriana University, in close collaboration with the National Geographic Institute and the National Institute for Biodiversity Studies, "A. von Humboldt".

The subjects covered in the presentations included:

- Contributions and projections of landscape ecology for an integrated approach to territorial analysis
- Applications to land use planning and conservation design
- Multitemporal fragmentation studies of tropical mountain forests
- Landscape reconstruction models for conservation planning
- Applications in Environmental Impact Assessment
- Environmental zoning in the Amazon
- Landscape ecology and Farming Systems Analysis
- Use and abuse of GIS in landscape ecology
- Genetic land use planning
- Insect diversity in different fragmentation patterns
- Landscape memories: scale, landscape and historical settlement patterns
- Local extinction in fragmented landscapes using species-area model
- Spatial analysis in ecological economic evaluation in extractive systems of non-timber rainforest products in the Amazon
- Effects of matrix characteristics on forest bird conservation

In total, 24 presentations were delivered, most of them in both oral and poster form. The Symposium was attended by more than 200 persons from different regions and institutions throughout the country, which made the event a success. Noteworthy, was the presence of undergraduate and graduate students, which gives hope for future development in the field. Although there were persons of different disciplines, the majority still come from the natural and earth sciences; however, the active participation of a few economists and anthropologists opened interesting discussions.

There are still gaps in many aspects: lack of presentations concerning urban topics, and in general, the need for further quantitative applications.

An Abstract booklet has already been sent to several colleagues. A publication of the complete contributions will be ready in three months time.

In the coming months, a Columbian branch of IALE will be established.

Andres Etter

**SPECIES DISPERSAL AND LAND USE PROCESSES**

CALL FOR PAPERS TO THE 1997 ANNUAL CONFERENCE OF UK-IALE

University of Ulster, Coleraine, Northern Ireland  
9-12 September 1997

Species distribution patterns and dispersal processes, and their relationships to land use, are the subject of this conference. Its purpose is to bring together ecologists, planners and land managers to develop applications of landscape ecology which may contribute to the sustainable management of contemporary and future landscapes.

Recent and current land use are now major determinants of species distribution. Lowland landscapes are strongly influenced by agriculture, industry and urban development. Most rural areas now contain only small, isolated remnants of semi-natural habitat within large blocks of intensively managed crops and grassland. Upland landscapes have also been radically changed. Their vegetation mosaics have been much modified by land use processes associated with livestock rearing, plantation forestry, recreation, tourism and peat extraction.

In some cases, species dispersal may be directly associated with specific human activities. This is illustrated by the spread of plant species across agricultural land on farm machinery and in animal manures. Land use processes also influence species dispersal and colonisation indirectly by their impact on dispersal agents and patch characteristics. Hedges, for example, act as reservoirs of biodiversity in lowland farmland and as potential corridors for species movement through the landscape, but as a result of recent changes in hedgerow management, their abundance and quality have declined markedly.

Landscape ecology focuses on the spatial pattern of landscape elements, and on the ecological and cultural mechanisms that drive change over time. An important component is the dispersal of organisms within and between habitat patches, so that attempts to manage or create habitats need an understanding of their colonisation ecology. colonists may spread from nearby populations, such as the soil seed bank or adjacent patches, arrive from outlying habitats, or even across continents. Methodological approaches which consider spatial scale in relation to the species under investigation are therefore particularly appropriate.

## Session themes

1. Dispersal and spatial scale
2. Species distribution and land use processes
  - arable and pastoral landscapes
  - uplands
  - forests and woodlands
  - urban and industrial landscapes
3. Large-scale distribution patterns and GIS
4. Monitoring change
5. Habitat creation and species dispersal
6. Management and design principles for new landscapes

For further information, please contact the organisers:  
 Dr Alan Cooper, IALE97, School of Environmental Studies,  
 University of Ulster, Coleraine, BT52 1SA, Northern  
 Ireland,  
 tel: +44 1265 324692,  
 fax: +44 1265 324911,  
 e-mail: a.cooper@ulst.ac.uk

**DEADLINE FOR THE  
 NEXT BULLETIN IS  
 10 MARCH 1997**

## 12th ANNUAL SYMPOSIUM OF US-IALE

The next US-IALE Symposium will be hosted by the Nicholas School of the Environment at Duke University in Durham, North Carolina. The meeting will be held Sunday through Wednesday, 16-19 March 1997, at the Washington Duke Inn and Golf Club on the edge of Duke's West Campus, adjoining Duke Forest. The meeting will consist of plenary sessions with invited guests, thematic sessions of contributed papers, and poster sessions. Special workshops will focus on techniques for teaching landscape ecology and for sharing research and teaching tools such as custom software.

Meeting guests may participate in all-day field trips on Sunday as well as shorter field trips on Tuesday afternoon. Field trips will visit a variety of ecosystems and research sites in the Durham area, the Piedmont, and the Coastal Plain.

For more information and instructions for registration, please visit our web site: <http://www.env.duke.edu/iale97>, or contact the Program Chair:

Dean Urban, US-IALE Program Chair  
 Nicholas School of the Environment  
 Levine Science Research Center  
 Duke University  
 Durham, NC 27708-0328  
 USA

Tel: (+1.919) 613 8076, Fax: (+1.919) 684 8741, e-mail: [iale97@pinus.env.duke.edu](mailto:iale97@pinus.env.duke.edu)

## DIARY

## 1997

16-19 March

U.S. IALE: "The pace and pattern of Landscape change", Duke University, Durham, North Carolina, USA. Contact Dean Urban School of the Environment, Duke University, Durham, NC 27708, USA, e-mail: [deanu@pinus.env.duke.edu](mailto:deanu@pinus.env.duke.edu)/iale97

7-8 April

Remote Sensing Society & IALE: Terra 3, Understanding the Terrestrial Environment: "Landscape patterns and Landscape Change", University College, Chester. Contact P Mather, Department of Geography, University of Nottingham, University Park, Nottingham NG7 2RD, United Kingdom, tel: +44 1159 515430, fax: +44 1159 515249, e-mail: [paul.mather@nottingham.ac.uk](mailto:paul.mather@nottingham.ac.uk)

29-31 May

"Biodiversity in Managed Forests - Concepts and Solution", Uppsala, Sweden, contact SkogForsk, Glunten, S-751 83 Uppsala, Sweden, fax: +46 18 188600, e-mail: [carl-henrik.palmer@skogforsk.se](mailto:carl-henrik.palmer@skogforsk.se)

9-11 September

IALE (UK) conference: "Species dispersal and land use

processes", University of Ulster, Coleraine. Contact Dr Alan Cooper, School of Environmental Studies, University of Ulster, Coleraine, BT52 1SA, County Londonderry, Northern Ireland, tel: +44 1265 324692, fax: +44 1265 324911, e-mail: [a.cooper@ulst.ac.uk](mailto:a.cooper@ulst.ac.uk)

6-10 October

Landscape Ecology: things to do. Proactive thoughts for the 21st century, Amsterdam. 25th anniversary of the Dutch Association for Landscape Ecology WLO. Contact Secretariat WLO-25 congress, P O Box 23, 6700 AA Wageningen, The Netherlands, tel: +31 317 477986, fax: +31 317 424988, e-mail: [wlo@itn.dlo.nl](mailto:wlo@itn.dlo.nl), <http://www.ecnc.nl/wlo-25html>

26-29 October

Science for a sustainable society - integrators natural and social sciences. Roskilde University, Denmark, <http://www.teksam.ruc.dle/sustain/>

17-22 November

Universidad de la Habana: "II Taller Internacional sobre Ordenamiento Geocologico de los Países", contact Eduardo Salinas Chavez, Facultad de Geografía, Universidad de la Habana, Zona 6, Alamar, CP 12500, La Habana, Cuba, tel: +537 651304/5105/652221, fax: +537 652221, e-mail: [geo@fgeo.uh.cu](mailto:geo@fgeo.uh.cu)