



International Association for Landscape Ecology

NEW LANDSCAPE ECOLOGY BOOKS



Nature and Culture in Landscape Ecology: Experiences for the 3rd Millennium (edited by Pavel Kovar)

reviewed by Sucharita Ghosh Beran

"Nature and Culture in Landscape Ecology, experiences for the 3rd Millennium" edited by Pavel Kovar and published by The Karolinum Press, consists of the proceedings of the Czech IALE conference held at the Charles University in Prague on 7-13 September 1998 to celebrate the 650th anniversary of its foundation. It is an attempt to document the modern developments in landscape research. It addresses an important issue namely to identify the various elements of landscape that in essence characterize its structure.

The book consists of forty five articles divided into five main themes and one chapter consisting of the opening papers. The opening papers discuss the general historical and political background of the area and prospects for future collaborations.

The first theme "Cultural elements in natural space-landscape transformation and sustainability" discusses the various landscape elements that can be used as indicators for urban and other cultural landscape classification problems. The different elements include functionality, sustainability, vulnerability, architecture, socioeconomic structure and land-use indicators. These elements are considered in a spatial context for analyzing the landscape. The second theme "Heterogeneity and biodiversity in land mosaic-evaluation approaches" assesses diversity within a landscape. In this chapter, various case studies describe the different concepts of heterogeneity at varying scales. As regards landscape protection, the importance of incorporating different types of protected areas into one land management context is pointed out.

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Issues in Landscape Ecology (edited by John A. Wiens and Michael R. Moss)

This is a collection of 28 invited essays on current and emerging issues in Landscape Ecology compiled for the 5th IALE World Congress held in Colorado, USA in 1999. A must for landscape ecologist and a welcome book for the classroom.

Copies of this volume, originally part of the registration materials for Congress participants, are available from: Secretary General, IALE, Faculty of Environmental Sciences, University of Guelph, Guelph, Ontario, Canada N1G 2W1. Orders must include cheque or money order for \$12 (U.S.) made out to FES – IALE.

Landscape Synthesis: Concepts and Applications (edited by Michael R. Moss and Robert J. Milne)

This is a collection of 20 papers focusing upon the geoecological bases of landscape synthesis. Part One deals with the conceptual bases of landscape synthesis; Part Two with methodologies and techniques; and Part Three with applications to local, regional and national issues. Published in Guelph, Canada and Warsaw, Poland, for the Landscape System Analysis Working Group of IALE.

Copies may be obtained from: Faculty of Environmental Sciences, University of Guelph, Guelph, Ontario, Canada, N1G 2W1. Orders must be accompanied by a cheque or money order for \$15 (U.S.).

For persons in countries not having convertible currencies a limited number of copies are available from: Prof. Dr. Andrzej Richling, University of Warsaw, Faculty of Geography and Regional Studies, Krakowskie Przedmieńcie 30, 00-927 Warsaw, Poland

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The third theme "Ecological knowledge of landscape dynamics and long-term change" analyzes landscape dynamics resulting from various ecological changes. The influential factors include fire, human settlements, habitat conditions, global climate change and naturalization processes – vegetation pattern analysis and aerial photographs being some of the commonly used methods for analyzing ecological aspects of a landscape.

The fourth theme "Restoration ecology: contribution of landscape ecology" points out among others the role of vegetation succession for future development of landscapes. It is suggested that vegetation science and vegetation changes can be used favorably in conservation problems.

The last theme "Models in landscape or regional planning and tools for land-use" describes the available technology in landscape modeling. The commonly used techniques are the GIS, image processing, pattern recognition, landscape and ecosystem models.

This book can be used as a reference to the basic concepts and the concerns of the landscape ecologists today. The concepts are discussed with case studies so that the notions are less abstract than they could have been. The chapters discuss the modern developments in Landscape Ecology giving the reader a feeling for the technological complexities required for quantitative research in this field. It is a useful collection of case studies and methodological discussions where traditional as well as new concepts have been considered.

Impressum: Nature and Culture in Landscape Ecology: Experiences for the 3rd Millennium, ed. by Pavel Kovar, Prague, The Karolinum Press.

..WE NEED YOUR INPUT: ARTICLES, BOOK REPORTS, MEETINGS!

In order to be up-to-date with ongoing activities and research in the field of landscape ecology we strongly encourage you to send us your articles, informations etc. E-Mail is so easy and we'll always find a place to publish your ideas!

... IN THE IALE-BULLETIN

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DEADLINE FOR THE NEXT BULLETIN IS MARCH 31, 2000

The IALE Bulletin is distributed six times a year to the members of the IALE. The IALE - International Association for LandscapeEcologywas founded in 1982 to promote communication between scientists, planners and interdisciplinary scientific research. IALE Executive Committee: *President*: Richard J. Hobbs (CSIRO Wildlife and Ecology, Private Bag, P.O., Wembley WA 6014, Australia), tel +61 8 9333 6442 fax +61 8 9333 6444 email *Richard.Hobbs@per.dwe.csiro.au*; *Past President*: John A. Wiens (USA), email *jaws@lamar.colostate.edu*; *Vice Presidents*: Duning Xiao (China), email *Indscp@iae.syb.ac.cn*; Kathryn Freemark (Canada), email *kathryn.freemark@ec.gc.ca*; Margareta Ihse (Sweden), email *ihse@natgeo.su.se*; Francoise Burel (France), email *francoise.burel@univ-rennes1.fr*; *Secretary General*: Michael Moss (Faculty of Environmental Sciences, University of Guelph, Guelph, Ontario, N1G 2W1 Canada), tel +1 519 824-4120 ext.4800 fax +1 519 763-4686 email *mmoss@uoguelph.ca*; *Bulletin Editor and Deputy Secretary General*: Felix Kienast (Swiss Federal Institute of Forest, Snow and Landscape Research WSL, CH-8903 Birmensdorf, Switzerland), tel +41 1 739 23 66 fax +41 1 737 40 80 email *felix.kienast@wsl.ch*; *Treasurer*: Rob Jongman (WAU, Department of Physical Planning and Rural Development), Gen. Foulkesweg 13, 6703 BJ Wageningen, The Netherlands, tel +31 317 483 713 fax +31 317 482 166 email *rob.jongman@plano.rpv.wau.nl*

IALE on the Internet: IALE International: http://www.crle.uoguelph.ca/iale/

WE NEED YOUR OPINION!

Recently our President Richard J. Hobbs brought up the issue of distributing the IALE-Bulletin in a digitized form rather than mailing it in the traditional paper format. This would save IALE-International and the regions a considerable amount of time and money. So far we put the old Bulletins as PDF-files on a server for down-loading. The question now arises whether this should be done for the most recent version as well. Consequently you would simply be alerted via e-mail to download the new Bulletin. We all now that for highly developed countries this information transfer is quite state-of-the-art. However, this policy might disconnect members from countries with limited access to the Internet and other resources from the IALE information channels. Thus prior to switching to a new system we would appreciate your comments to the few questions listed below:

- 1) Do you wish to receive the IALE Bulletin via Internet (downloadable PDF file or PDF attachment) or via normal mail in paper format?
 - a) I prefer the paper format b) I prefer the Internet
 - c) I wish both
- 2) If you prefer the paper format, what are the reasons:
 - a) I have no access to Internet
 - b) paper format is more personal
 - d) others
- 3) Your country of residence?

please send anwer to felix.kienast@wsl.ch

MORE BOOKS IN THE FIELD OF LANDSCAPE ECOLOGY...

Landscape: pattern, perception, and process, by Simon Bell, London: E & FN Spon, 1999, ISBN 0-419-20340-0

Landscape ecological analysis: issues and applications, ed. by Jeffrey M. Klopatek, Robert H. Gardner, New York: Springer, 1999, ISBN 0-387-98325-2.

Écologie du paysage : concepts, méthodes et applications, by Françoise Burel, Jacques Baudry, Paris: Editions Tec & Doc, 1999, ISBN 2-7430-0305-7.

Landscape ecology: a top-down approach, ed. by Jim Sanderson et al., Boca Raton, Fl.: Lewis, 2000, ISBN 1-56670-368-9.

Conference Book Announcement: The Czech IALE Conference (CLE 98) held in Prague, September 1998 (see http://www.wsl.ch/land/iale/bulletin.htm) both yielded a book (see book review in this issue on "Nature and Culture in Landscape Ecology. Experiences for the 3rd Millenium) and a special issue of the Charles University journal, Acta Universitatis Carolinae: Brani, M. [Ed.] (1999): Nature and Culture in Landscape Ecology. Part 2: Applied Landscape Ecology. Acta Universitatis Carolinae Environmentalica, Vol. 13 (1999), Nos. 1-2, Prague. Price: 9.- US dollars plus postage costs. Please send your orders to: M.Brani, CZ-IALE, Faculty of Science, Charles University, Benátská 2, 128 01 Prague 2, Czech Republic (E-mail: branis@natur.cuni.cz).

FOUND ON THE WEB...

Ecological models

REM: The Register of Ecological Models (REM) is a metadatabase for existing mathematical models in ecology. REM is a cooperative service of the University of Kassel and the GSF - National research center for Environment and Health

ECOBAS: The ECOBAS project provides a system for documentation of mathematical descriptions of ecological processes. In particular ECOBAS focuses on convenient access to information complete and precise documentation of mathematical formulations including the limits of validity whereever feasible and standardization of documentation.

http://dino.wiz.uni-kassel.de/model_db/about_rem.html

Spatial "Top-Down" Planning Indicators

The Austrian Federal Ministry of Science, Transport and the Arts organizes and finances a national research initiative, called "Sustainable Development of Austrian Cultural Landscapes" which is aiming at:

- the "development of indicators of sustainability", and
- the "maintenance of biodiversity and quality of life"

A scientific advisory council chose 30 interdisciplinary research modules, that will be carried out in the next five years. During the program, the scientific results should be permanently implemented in various relevant policy-issues. One interesting module is named Spatial "Top-Down" Planning Indicators.

http://www.pph.univie.ac.at/intwo/in2intro.htm

FOUND ON THE WEB... (cont. from p.3)

Our sister organizations (3): International Geographical Union IGU

The International Geographical Union was established in Brussels in 1922. However, the history of international meetings of geographers is much longer. The first of a series of congresses met in 1871 in Antwerp. The International Geographical Union has the following aims:

- to promote the study of geographical problems;
- to initiate and co-ordinate geographical research requiring international co-operation and to promote its scientific discussion and publication;
- to provide for the participation of geographers in the work of relevant international organizations;
- to facilitate the collection and diffusion of geographical data and documentation in and between all member countries:
- to promote International Geographical Congresses, regional conferences and specialized symposia related to the objectives of the Union;
- to participate in any other appropriate form of international co-operation with the object of advancing the study and application of geography;
- to promote international standardization or compatability of methods, nomenclature, and symbols employed in geography.

The International Geographical Union adheres to the International Council of Scientific Unions (ICSU) and the International Social Science Council (ISSC) and recognizes them as co-ordinating bodies for the international organization of science.

http://www.igu-net.org

Tropical Studies

The Organization for Tropical Studies (OTS) is a non-profit consortium that has grown to include more than 55 universities and research institutions from the United States, Latin America, and Australia. OTS is dedicated to provide leadership in education, research, and the wise use of natural resources in the tropics.

http://www.ots.ac.cr/

DIARY



April 15 - 19, 2000

The 15th Annual Symposium of U.S. Regional Association of the International Association of Landscape Ecology, "Integration of Societal and Landscape Heterogeneity: Problems and Solutions.", Fort Lauderdale, Florida. Abstract deadline: February 2, 2000, Pre-registration deadline: March 17, 2000 http://www.ces.fau.edu/iale2000/

May 4-6, 2000

Culture, Ecology, and Economics of Ranching West of the 100th Meridian. Colorado State University, USA. Contact: Richard L. Knight (Department of Fishery and Wildlife Biology, Colorado State University, Fort Collins, CO 80523) or Wendell C. Gilgert (Natural Resources Conservation Service, Department of Fishery and Wildlife Biology, Colorado Email: wgilgert@cnr.colostate.edu

http://www.agnic.org/mtg/2000/ceerw.html

June 17-22, 2000

Eighth International Symposium on Society & Resource Management - Transcending Boundaries: Natural Resource Management from Summit to Sea. Western Washington University, Bellingham, WA. Contact Diana Bakkom, WWU Conference Office, ISSRM-8th; Rm 217 Arntzen Hall, Western Washington University, Bellingham, WA, 98225-9085 USA, Ph: 1-360-650-3284, Fax: 1-360-650-7702

http://www.ac.wwu.edu/~issrm8th/

July 4-7, 2000

METROPOLIS 21st century: which perspectives? Cities, Social Life and Sustainable Development, Paris, France. 16th Conference of the International Association for People-Environment Studies (IAPS).

http://www.psycho.univ-paris5.fr/iaps2000/iaps_16en.htm

July 20 - 22, 2000

Annual reunion of IALE-Germany: The future of central European landscapes: Analyses, assessments, planning, management, Nürtingen, Germany.

http://www.iale.de

September 6 - 9, 2000

The Culture of the European Landscape as a Task, Dornach (near Basle), Switzerland.

http://www.goetheanum.ch/sektion/nws/Landschaft.htm (e-mail: h.c.zehnter@goetheanum.ch)

October 16-18, 2000

IEP-Symposium on "Issues in Global Change". Lisbon, Portugal.

http://www.elsevier.nl/locate/iep2000