



Bulletin

International association for landscape ecology

CONSERVATION AND MANAGEMENT OF EUROPE'S CULTURAL LANDSCAPES. A CHALLENGE FOR THE 1990S

Introduction

Demands for efficiency and economic output are causing increasing pressure on agriculture and forestry in Europe. An ecological consequence of this process is a reduction of diversity with regard to the landscape in general, as well as biotopes, flora and fauna. To ensure conservation of important ecological, cultural and recreational assets of the cultural landscape a holistic, ecological based environmental policy is now required in Europe.

Better biotope protection

The long term conservation of values in cultural landscapes should preferably be based on an integrated land use strategy, including coordinated use of legal as well as economic instruments in different public sectors (environment, culture, agriculture, forestry and physical planning).

In this connection, a conservation strategy for cultural landscapes in today's Europe requires measures on various levels (Fig. 1):

1. To ensure the maintenance of biological values in modern cultural landscapes, due attention must be paid to conservation principles in education and information programmes, as well as in the use of legal, and economic instruments.

This should include the implementation of guidelines for better protection of species and habitats of high conservation value in the modern agricultural landscape, as well as in recreational areas, parks etc.

2. Habitats of high ecological value may be preserved through payment to landowners for their continued management.

In this connection, reference should be made to the document "Caring for the Earth. A Strategy for Sustainable Living" (IUCN, UNEP, WWF, 1991) underlining the importance of national and local initiatives to ensure the maintenance and conservation of valuable ecosystems.

This document recommends also that landowners and local communities are encouraged to conserve and maintain local diversity of species and biotopes. Wetlands and meadows with high biological diversity are emphasised in this connection.

3. Furthermore, some habitats are so important that relevant legislation should be used to secure their future existence. The conservation objectives for such habitats must be clearly defined and the management of each site should be based on a specific management plan.

Management of these habitats does not necessarily follow traditional use, but the dynamics of the old cultural landscape must be considered when management plans are prepared. Due attention should also be given to more recent environmental factors such as the long range deposition of nitrogen.

FIRST PUBLICATION FROM IALE STUDIES IN LANDSCAPE ECOLOGY

Landscape Ecology of a Stressed Landscape; IALE Studies in Landscape Ecology, Volume 1.

Editors:

Claire C. Vos and Paul Opdam

Publisher:

Chapman & Hall

In November 1992 the first volume in the series IALE Studies In Landscape Ecology will come out. In Landscape Ecology of a Stressed Landscape an overview is given of landscape ecological research and its application in nature management and landscape planning, focusing on the Dutch landscape.

In Western Europe a growing awareness of the deterioration of landscapes and a loss of natural diversity coincided with a high population density and an intensifying land use. The Netherlands have been the experimental garden where landscape ecology developed very fast as an applied science, aiming at solving problems arising from spatial interactions between land units with contrasting functions e.g. agricultural areas and nature reserves.

The book covers such landscape ecological topics as spatial relationships of the hydrological system, effects of air pollution on nature reserves and their management, habitat fragmentation and the functioning of meta-populations in agricultural landscapes, methodology of landscape planning, and quantitative predictive methodology for environmental impact assessment at the landscape scale.

The new data and principles of landscape ecology presented in this book apply to a variety of managed landscapes worldwide.

Claire Vos

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IALE MEETINGS

CULTURAL ASPECTS OF LANDSCAPE

Report from the 2nd international conference arranged by the IALE-Working group: Culture and Landscape, in Zdar, Czechoslovakia, 7.-10. September 1992.

In the setting of the Moravian plains on the boundaries of the Moravian carsts and at the center of the industrial city of Zdar, the location of the conference was itself part of the theme: Cultural aspects of landscape.

The local and national discussion of the preservation and rebuilding of the Czechoslovakian landscape and the quest for a relevant cultural basis for this process was a dominating topic of the meeting. With 90 participants, 10-15 from outside Czechoslovakia, and under the guidance of Prof. Hannah Swouden-Svobodova the influence of art, aesthetics, litterature, ethics, history and religion on the conceptions of landscape, landscape planning and actual planning practise were brought to the fore through talks, slides, videos and excursions.

The non-Czechoslovakian participants mostly contributed with general and more principal aspects, based on specific cases, whereas the domestic group opened a rich discussion of the actual environmental problems, the need to remedy them, but also the knowledge, the enthusiasm and optimism with which they were attacked in forestry, agriculture, preservation of monuments and historical sites.

Preliminary proceedings were available during the conference, the final proceedings are being prepared.

Svend Erik Larsen

THE 7TH ANNUAL US-IALE MEETING

The meeting took place in Corvallis Oregon in April 92. The meeting was organized around five thematic section topics, Land Use Planning, The Oregon Experience, Biodiversity in Managed Landscapes, Rivers in the Landscape, Landscape-Scale Experiments and Modelling and Regional-Scale Research and Management. Within these themes a number of invited papers were given. Concurrent with these invited sessions, two submitted paper sessions were held for a total of ten submitted paper sessions. A copy of the program and abstracts may be obtained by writing to Jim Thorne.

US-IALE passed a resolution that all US-IALE members would also be members of IALE. Dues of US\$20 is to be paid to the US Treasurer, Susan Glenn, of which US\$10 will be forwarded to IALE for membership in the international society.

New officers were elected at the meeting:

Tom Crow, US Forest Service was elected President.

Scott Collins, University of Oklahoma was elected Secretary.

David Hulse, University of Oregon was elected Councillor at large.

Susan Glenn, Oklahoma Biological Survey was elected Treasurer.

The next US-IALE meeting will be held in March 1993 at Oak Ridge Tennessee. For information please contact Louis Iverson, Illinois Natural History Survey, 607 East Peabody Drive, Champaign, Illinois 61820. Phone (217) 244-2169, e-mail iverson@denr1.igis.uiuc.edu.

Jim Thorne & Scott Collins

LANDSCAPE ECOLOGY SYMPOSIUM AT THE 5TH NATIONAL CONGRESS OF THE S.I.T.E. (ITALIAN SOCIETY OF ECOLOGY)

The 5th National Congress of the Italian Society of Ecology, (S. It. E.) was held at the end of September (21-25) in the prestigious building of the Rettorato of the Università degli Studi di Milano, organized by the Biological Department of that University.

The S. It. E. Working Group on Landscape Ecology, linked with the Italian IALE Section, succeeded in preparing the first symposium on Landscape Ecology in the history of the Italian congresses of Ecology. Fifteen works have been presented, 10 communications and 5 posters, chaired by the president of the Italian IALE.

The more interesting arguments: Spatio-temporal scale problems at the alpine upper limit of the forest edge "Kampfzone" (F. Palmeri), Landscape mosaic and it's main consequences on animal behaviour (A. Farina), The vegetation of ravine environments in Lombardy (C. Andreis), Landscape ecology of the low basin of the river Albegna, Tuscany (P. Agnelli et al.), Landscape transformation control near the town of Gallarate, Lombardy (M.G.Gibelli).

The symposium has driven the attention of many italian scientists on theory and applications of Landscape Ecology, moreover enhanced by the final speech of the S. It. E. congress, held by Francesco di Castri, Assistant Director General of UNESCO, Coordinator for the Environment.

Vittorio Ingegnoli

The IALE BULLETIN is distributed 4 times a year to the members of IALE. IALE Bulletin Editor: Jesper Brandt, Inst. Geography & Computer Science, Roskilde University Center, P.O.Box 260, DK-4000 Roskilde, Denmark, Tel: +46 75 77 11 ext. 2463, Fax: +46 75 74 01 E-mail: brandt@ruc.dk. Layout Erling Andersen. IALE - International Association for Landscape ecology - was founded in 1982 to promote communication between scientists and planners and interdisciplinary scientific research. IALE executive committee: President Henri Decamps (France), Past-president Gray Merriam (Canada), Vice-presidents: Joan Iverson Nassauer (USA), E.R. Fuentes (Chile), Paul F.M. Opdam (Netherlands), Vaclav Mejstrik (Czechoslovakia), General Secretary Almo Farina (Italy), Lunigiana Museum of Natural History, 54001 Aulla, Italy Tel: +187 42 03 74, Fax: +187 420727. Deputy General Secretary & Bulletin editor Jesper Brandt (Denmark), Treasurer: James F. Thorne (USA), Univ. of Pennsylvania, PA 19104-6311, Fax: (215) 898-9215
DEADLINES FOR THE BULLETIN in 1993: 15th February, 15th May, 15th September and 15th December.

4. A few, "complete" cultural landscape ecosystems typical of different regions and various historical periods deserve attention as reference areas. These should be managed in accordance with historical land use traditions, and may, where not conflicting with conservation objectives, serve as demonstration areas for traditionally managed cultural landscapes (for research, education and information purposes).

It is now urgent to develop such a differentiated and stratified approach to the conservation of cultural landscapes in Europe. If efforts only concentrate on the establishment of traditional conservation areas, these sites may gradually end up as isolated islands in a drastically altered and intensively used cultural landscape. On the other hand, if we only concentrate on general guidelines and recommendations for the maintenance of natural qualities in modern cultural landscapes, we risk losing the most valuable habitats and landscape qualities. In this connection, we must also be aware of land taken out of production because this is most likely to be areas of highest value for cultural landscape.

A basic requirement for an ecologically based, holistic conservation strategy for cultural landscapes in Europe, is the organization of relevant national inventories.

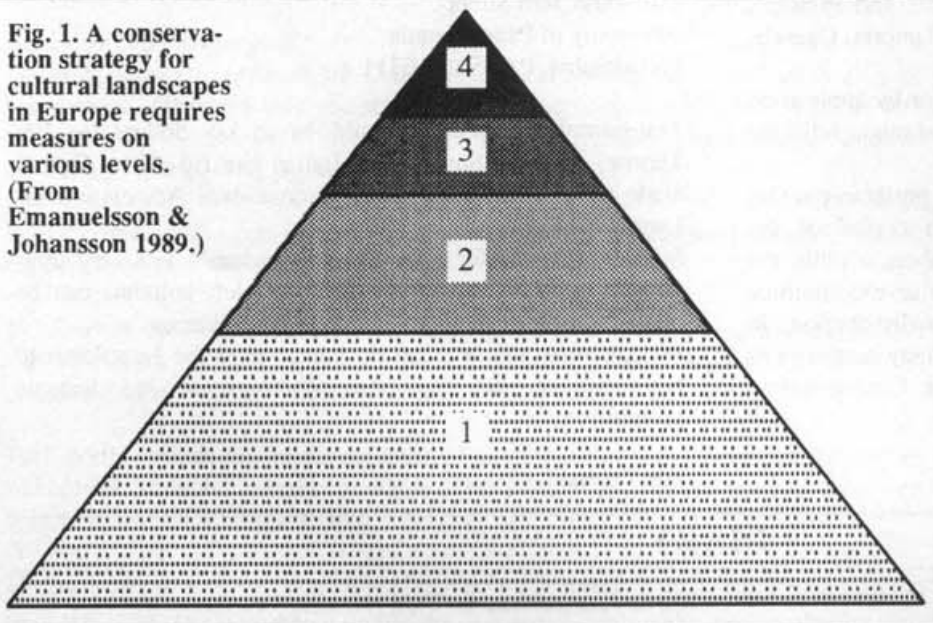
More interdisciplinary research is also required to formulate principles and guidelines for the integration of cultural landscape values into the many facets of agriculture and other land use.

Final remarks

In the 1990's the economic/agricultural pressure in the European countries is rapidly increasing. With this process the risk of losing valuable cultural landscape habitats and species dependent on these ecosystems is obvious. In such a perspective, we urgently need to develop a broader understanding and awareness of the cultural landscape's biological and historical dimensions and why they deserve conservation, as an important part of our European cultural and natural heritage.

Ann Norderhaug

Fig. 1. A conservation strategy for cultural landscapes in Europe requires measures on various levels. (From Emanuelsson & Johansson 1989.)



References

Emanuelsson, U. & Johansson C.E. (ed.) 1989. Biotopvern i Norden: Rekommendationer för kulturlandskapet. - Nordiska ministerrådet Miljörapport 1989:5.

IUCN, UNEP & WWF 1991. Caring for the Earth. A Strategy for Sustainable Living. - Gland, Switzerland.

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SHORT NEWS

NATION STATES WITH CORRESPONDING MEMBERSHIP STATUS

On the General Assembly in Ottawa it was decided, that IALE may provide free Corresponding Membership with full voting rights for those wishing membership in nation states where availability of internationally exchangeable currency is critically restricted.

Based on bank information concerning export restrictions for internationally exchangeable currency the Executive Committee has worked out the following list of nation states that without further permissions may provide free Corresponding Membership until the next General Assembly:

Albania, Algeria, Angola, Bhutan, Bulgaria, Burma, Cape Verde Islands, Cuba, Dominican Republic, Estonia, Ghana, Guinea-Bissau, Hungary, India, Peoples Republic of China, Peoples Republic of Korea, Laos, Latvia, Libya, Lithuania, Mauritania, Mongolia, Morocco, Mozambique, Nepal, Poland, Rumania, Samoa, Sao Tome and Principe, Sudan, Czeck and Slovak Republics, CIS, Tunesia, Uganda, Vietnam and Zaire.

Corresponding Membership can be asked for by application for membership from other nation states, that might fulfil the conditions.

Corresponding Membership regions should preferably set up a regional organization that can receive copies of the Bulletin for redistribution among the members within the region. For financial reasons the IALE Executive Committee have the right to insist on such a redistribution in Corresponding Membership regions with many members as a precondition for the maintenance of the Corresponding Membership Status.

Jesper Brandt

DUES NOTICE

Starting in 1993, only IALE members who have paid their dues will receive the IALE Bulletin, the discount on the journal "Landscape Ecology" and other mailings from IALE. The price of annual membership is \$10 US.

Dues from Europe, the Middle East and Africa should be sent to:

Almo Farina,
IALE Secretary-General
Lunigiana Museum of Natural History
Fortezza della Brunella
54011 Aulla,
ITALY

Dues from Asia, South America and North America should be sent to:

Jim Thorne,
IALE Treasurer
Department of Landscape Architecture and Regional Planning
210 South 34th Street
University of Pennsylvania
Philadelphia, PA 19104-6311

Transmittals of money should be in US dollars (to Jim Thorne) or the equivalent in Italian lire (to Almo Farina) made payable to "IALE" or "International Association for Landscape Ecology".

Special provision for those living in countries with very unfavorable currency exchange rates (see left column) can be made through written application to Almo Farina.

We are sorry that we can no longer send the Newsletter to non-members, but the cost of doing so has become prohibitive.

Jim Thorne

DIARY

Graz, Austria 4 - 8 April 1993

ERIM: 25th International Symposium on Remote Sensing and Global Environmental Change. Contact: ERIM/International Symposium. P.O. box 134001, Ann Arbor, MI 48113-4001, USA. Tel. (1313) 994 120. Fax 994 5123

Enschede, The Netherlands 19-23 April 1993

International symposium: "Operationalization of Remote Sensing. Contact: Prof. J.L. van Genderen, ITC, P.O. Box 6, 7500 AA Enschede, The Netherlands, Tel: 31-53-874 254, Fax: 31-53-874 436, Tlx: 44525 itc nl.

Tallinn, Estonia 18-21 May 1993

4th International Conference on a System Analysis Approach to Environment, Energy and Natural Resource Management in the Baltic Region. Contact: The secretariat, Institute of Geography, University of Tartu, 46 Vanemuise St. Tartu, EE2400 Estonia. Tel: +7 01434 30 605, Fax: +7014 34 35 440

Rennes, France 6 - 10 June 1993

IALE-meeting: Agricultural landscapes in Europe. Contact: Sandrine Petit, Laboratoire d'évolution des Systèmes Naturels et modifiés, Campus de Beaulieu, Avenue du Général Leclerc 5042 Rennes cedex, France, Tel : (33) 99 28 61 45. Fax : (33) 99 38 15 71

Rio de Janeiro, Brazil 15-18 June 1993

International Congress on Arid Lands: Natural Resources in Arid Lands. Contact: Dr. Ing. Oreste Moretto, Congreso Internacional, Academia Nacional de ciencias exactas, Avda, Alvear 1711, 4th piso (1014) Buenos Aires, Argentina

New Orleans, USA 18-22 July 1993

8th Interdisciplinary Conference on Coast Management. "Coastal Zone 93". Contact: Orville Magoon, P.O. Box 279, 21000 Butts Canyon Road, Middletown, CA 95461, USA.

Tokyo, Japan 28 August - 3 September 1993

15th International Botanical Congress. Contact: M. Furuya, Frontier Research Programs, The Riken Inst., Wako City, 351-01, Japan

Kiel, Germany 28 September - 2 October 1993

International Conference on the State of Art in Ecological Modelling. Contact: Sven Erik Jørgensen, Environmental Chemistry, Universitetsparken 2, 2100 København Ø, Denmark. Tel: 45 37 57 44.
