

CONTENTS

	Page
Preface.....	vii
Keynote Lecture	
<i>Biodiversity patterns in cultivated landscapes: experiences and first results from a nationwide Austrian survey</i>	
Th. Wrbka, E. Szerencsits, D. Moser and K. Reiter.....	3
Session 1. Spatio-temporal heterogeneity in land-use processes	
<i>Detection of forest fragmentation gradients and intensities</i>	
J. Bogaert, D. Salvador-Van Eysenrode, P. Van Hecke and I. Impens.....	21
<i>Modelling the contribution of land cover and crop heterogeneity to biodiversity in a Scottish river catchment</i>	
P. Dennis, I. S. Downie, A. L. Milligan, K.J. Murphy, D.I. McCracken, J.A. Milne, G.N. Foster, A. Waterhouse and R.W. Furness.....	31
<i>Prospects and limitations of the application of landscape metrics for landscape monitoring</i>	
F. Herzog and A. Lausch.....	41
<i>Landscape heterogeneity and multiple scale nature of ecological continuity in planning for equitable landscape change</i>	
P. Mariota, Mv. Mininni and F. Papadimitriou.....	51
Session 2. Landscape patterns: mapping and modelling	
<i>Describing variation in the spatial pattern of British landscapes using data from Countryside Surveys</i>	
M. Gillespie, C. Barr, D.C. Howard and R.G.H. Bunce.....	65
<i>Landscape structure and scale: comparative studies on some landscape indices in Germany and the UK</i>	
T. Blaschke and J. Petch.....	75

Biodiversity patterns in cultivated landscapes: modelling and mapping with GIS and multivariate statistics

- Ph. Jeanneret, B. Schüpbach, A. Lips, J. Harding, J. Steiger,
M. Waldburger, F. Bigler and P.M. Fried.....** 85

A GIS approach linking grassland community types and landscape position on the South Downs

- N.G. Burnside, R.F. Smith and S. Waite.....** 95

Plenary lecture

Population dynamics in heterogeneous landscapes: towards a theoretical framework

- D.J. Murrel, R. Law and C. Dytham.....** 107

Session 3. Ecological dynamics of landscape-species interactions

The role of animal decisions in the development of vegetation dynamics

- J.A. Beecham, S.P. Oom and A.J. Hester.....** 121

The colonization of wild flower strips by insects (Heteroptera)

- K.S. Ullrich and P.J. Edwards.....** 131

Amphibian habitat fragmentation – a case study of an area and the consequences for a translocated five species community

- J. Taylor, S. Banister, R. Parkinson and L. Eccles.....** 139

Session 4. Evaluation and planning of landscape character

Changing approaches to landscape character evaluation and their implications for landscape ecological planning

- P.H. Selman.....** 151

Drawing on natural capital: a landscape ecological model for countryside access in the Sussex Downs & East Hampshire AONBs

- C.L. Wale, R.H. Haines-Young, C. Watkins and A.P. Murdoch.....** 159

River patterns in landscapes

- S.M. Haslam.....** 169

Session 5. Management and restoration of diverse landscapes

A habitat restoration trial in farmland in lowland England

R.C. Thomas and J.P. Isaacs..... 179

Application of landscape ecological concepts for the restoration of the woodland habitat in Sherwood Forest

P. Nikolakaki and N. Dunnett..... 189

Closing lecture

Heterogeneity at the landscape scale across Europe

R.G.H. Bunce, D.C. Howard and J.W. Watkins..... 201

Poster papers

The use of metapopulation models and GIS in environmental studies preceding linear infrastructure construction

G. Pain, J. Baudry and F. Burel..... 213

Landscapes for biodiversity: landscape character & ecological integrity

E.A. Simmons, G.H. Griffiths and S. Warnock..... 219

Habitat fragmentation in England's ancient woods: implications for managing biodiversity

S.-A. Bailey, R.H. Haines-Young and C. Watkins..... 225

The role of farm woodlands in local biodiversity action plans

D. van der Horst, A. Gimona and G.P.A. Willems..... 233

Spatial patterns of gastropod occurrence and herbivory in a field-scale habitat mosaic in winter

E.J.P. Marshall, A.J. Grant and S. Fairburn..... 239

Heterogeneity in berry abundance along a species-rich hedgerow: sampling methods and spatial patterns

M.J. Maudsley, T.M. West and E.J.P. Marshall..... 245

<i>The dynamics of land use diversity in Thailand</i> F.Th. Papadimitriou and P. Mairoti	251
<i>Geometrical modelling and mapping of ecological data: three unsolved geometrical problems in landscape ecology</i> F.Th. Papadimitriou	259
Poster abstracts	
<i>Dispersal and establishment limitation of species in differently managed grasslands: experimental approach and preliminary results</i> S. Studer, P.J. Edwards, E. Meister and B. Koch	267
<i>Enhancing insect diversity in agricultural grasslands: the role of management and landscape structure</i> M. Di Giulio, P.J. Edwards and E. Meister	269
<i>Evaluation of biodiversity in agricultural landscapes</i> N. Millan-Peña, A. Wolff, F. Burel, J. Baudry and A. Butet	271
<i>Monitoring land cover change in Scotland: the limits of detectability for semi-natural vegetation</i> A.J. Comber, R.V. Birnie and M. Hodgson	273
<i>Insect communities in newly-created woodlands</i> J. Dunn, C. Dytham and R. Law	275