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# Geo-Environment and Landscape Evolution III

Evolution, Monitoring, Simulation, Management  
and Remediation of the Geological  
Environment and Landscape

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## Preface

This book contains most of the papers presented at the 3rd International Conference on Evaluation, Monitoring, Simulation, Management and Remediation of the Geological Environment and Landscape held in The New Forest, Ashurst Lodge, UK, in June 2008, organised by the Wessex Institute of Technology, UK, Complutense University, Madrid, Spain and the University of Tartu, Estonia. The first meeting of this successful conference series was held in Segovia, Spain in 2004 followed by one in Rhodes in 2006.

This conference aimed to study the role of geosciences in environmental management. The geosciences' understanding of natural systems and their process is of fundamental relevance for proper use of the land. The study of the Earth's materials and dynamic processes is essential for different fields of application, and to increase our knowledge of varying environmental problems, such as air, soil and water pollution, soil erosion, waste disposal, water quality, building materials and foundations, and many others. Understanding geological processes is also essential to other fields of study, such as engineering, environmental management, land preservation and restoration, urban environment, land and ecosystem inventories and scenery assessments and landscaping.

The objective of the meeting was to provide a forum for discussion of these topics among researchers, engineers, planners, decision-makers, consultants and other professionals interested in the contribution of geosciences and geo-information to environmental management, land preservation, remediation and sustainable development.

This volume brings together international information, experience and research in order to give the reader a greater knowledge and ability to help communities to develop in a sustainable way. It discusses some of the problems facing the public and private sectors and the engineering and scientific communities. It studies several aspects of environmental pollution, modelling, and monitoring, soil and rock properties, vulnerability studies, ecosystem remediation, climatological processes and hydrological studies, geo-ecology and landscape analysis, geo-environment in urban settings, natural hazards and risks, remote sensing of the environment,

environmental planning and management, and restoration of ecosystems.

The papers published in the book are grouped in the following sections: Remediation and Restoration; Environmental Modelling; Environmental Monitoring; Environmental Hazards and Pollution; Landscape Analysis.

The Editors are grateful to all authors for their contributions and to the members of the International Scientific Advisory Committee for their help in selecting the papers included in this volume.

The Editors  
New Forest, UK, 2008

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