

# CONTENT

## Introduction

9

## I. GLOBAL CONCERNS OF SUSTAINABLE DEVELOPMENT 11

### Richard W. Lo Pinto

Water quality assessments – a cost effective approach for sustainable development in the carpathian basin

13

### Haydar Erdogan

The effects of global climate change in the world

19

### George J. Halasi-Kun

Global warming in the Carpathian Basin

27

### Gábor Náray-Szabó

Environment foresight for the Carpathian Basin

33

### Vermes, L. – Láng, I.

International research programs on conserving the ecosystem and identifying the arid regions in the Carpathian Basin

41

### Fodor, István

Natural resources of sustainable regional development in the Carpathian Basin

46

### Probáld, Ferenc

Sustainable development: possibilities and constraints of geographical education

52

### Nagy Viliam – Stekareuerova Vlasta – Nemerkényi Miklós

Comparisom of groundwater household at location of Bodiky and Dunasziget in the vegetation period of 2002

59

### Gábor Milics – Viliam Nagy – Vlasta Stekauerová

Application of GIS for evaluating, monitoring and presenting groundwater and soil moisture data

69

**Norbert Vincze**

The main environmental issues of the Slovak Republic

76

**Bartók Katalin**

Biodiversity and natural conservation in Romania

85

## **II. INTERNAL STRUCTURAL PROBLEMS OF THE ENVIRONMENT IN CENTRAL EUROPE**

105

**János Rakonczai – Ferenc Kovács**

Evaluating the process of aridification on the example of the  
Danube-Tisza interfluvium

107

**Titusz Bugya- Zoltán Wilhelm**

Sustainable rainwater management in Hungary

116

**Gyenizse, P. – Lovász, Gy.**

The impact on settlement pattern by the geomorphic evolution of the  
Dráva valley section in the Carpathian Basin

130

**Izsaki Tibor**

On the environment in the delta of river Borzsa,  
the right-side branch of the Tisza

136

**Veronika Putarich**

Precipitation in Vojvodina

140

**Szabolcs Czigány, Anita Kovács, Levente Ronczyk**

Changes in the water quality of Pécsi-víz

147

**István Viczián**

Dangerous waste depositories on the flood plain of the Danube  
between Mosonmagyaróvár and Dunaalmás

157

**Tibor Pécz – Réka Szabó**

What is the future for Kis-Balaton?

164

**Tamás Bötkös**

Precipitation trends in Pécs

171

### **III. OUTLINE OF THE DIFFERENT REGIONAL ENVIRONMENTAL PROBLEMS AND ISSUES**

179

**Ilona Kevei-Bárány – Anikó Zseni – Edit Hoyk – Rita Kaszala**

Investigations of heavy metal pollution in the karst regions of Hungary

181

**Leél-Őssy Szabolcs**

Nature protection problems and the possibilities of building up  
the József-hegyi-cave

192

**Andrei Mihalik**

Support structures of reinforced concrete pre-processed elements

196

**Samuel Jakab**

Soil damage in Romania

198

**Maniak S. - Neményi M. - Mesterházi P. Á.**

Development of new optical sensors for weed monitoring

202

**Stephan Maniak - Vlasta Stekauerová**

Introduction in geographic information systems

211

**Gábor Milics**

Thermal mapping using Landsat-7 satellite data

218

**Bernadett Szabó-Kovács**

The attendance of environment protection in the micro region  
development programs of Baranya county

223

**Tibor Kiss – János Girán**

Sustainability of local resources and values

232

**Wilhelm Zoltán – Ulcz Gyula**

Environmental and nature protection in the Carpathian-Basin  
reflecting one month of the printed press

242

**László Kopári – Xénia Lantos**

Forest school – a potential basis of sustainable development in Hungary

249

**Norbert Pap**

Agricultural impact on the environment in the Balkan Peninsula

256

Stephan Maniak

Geographic Information Systems in Environmental Protection

273

## Appendix

Members of Seminar	305
Contents of Volumes I-XXXV	308
Preparation of Manuscripts	325

281 Balázs Gyula – Zoltán Wilhelm

Sustainable rainwater management in Hungary

293 Gyenizse, P. – Lovagyi M. – Mészáros M. – Szabó S.

The impact on settlement pattern by the geomorphic evolution of the Dráva valley section in the Carpathians

311

Izsák Tibor

On the environment in the delta of river Barca

319 the right-side branch of the Tisza

changes in the environment of the Tisza

Veronika Putarich

Precipitation in

333

István Viczián

Dangerous waste depositories on the flood plain between Mórahalom and Gödöllő

345

Tibor Pácz – Róka Szabolcs

What is the future for Kis-Balaton?

355

Tamás Székely

Water pollution trends in Pécs

365

Agricultural impact on the environment in the Great Plain