Proceedings

Volume 6

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Organized by Near East University

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III

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International Conference on Environment: Survival and Sustainability 19-24 February 2007 Near East University, Nicosia-Northern Cyprus

CONTENTS

Pages

Editor/Members of the Editorial Board III

Preface VII

Acknowledgments VIII

Organizing Committee Members IX

International Advisory Board Members X

Scientific Committee Members XIII

Messages XVII

·Message from Dr. Suat i.Gunsel, Honorary President of the Conference ·Message from Prof.Dr. Huseyin Gokcekus, President of the Conference

Opening Speeches XIX

·Prof. Dr. Dmit Hassan, Rector of Near East University, TRNC

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Final Report of the International Conference On Environment: Survival and

Sustainability XXXIX

v

International Conference on Environment: Survival and Sustainability 19-24 February 2007 Near East University, Nicosia-Northern Cyprus

1986

List of Papers and Posters XLIII

Papers and Posters

Volume 1: MT-1: Business and Environment: Redefining Interests 1

Volume 2: MT-2: Conservation and Management of Biodiversity 187

Volume 3: MT-3: Cultural Heritage and Environmental Factors 769

Volume 4: MT-4: Economics, Development and Sustainability 1043

Volume 5: MT-5: Energy and Development: New and Renewable Energy 1673

 MT-6: Environment and Health 1953

Volume 6: MT-7: Environmental Awareness, Education, and Lifelong Leaming 2369

 MT-8: Environmental Knowledge and Information Systems 2615

 MT-9: Environmental Law and Ethics 2807

 MT-10: Environmental Organizations: Roles, Problems and Prospects 2895

Volume 7: MT -11: Environmental Science and Technology 2923

 MT-12:Global Warming: How Much of A Threat? 3607

Volume 8: MT 13 -Green Factor In Politics 3785

 MT-14: Integrated Water Resources Management. 3847

Volume 9: MT-15: International Relations and Environmental Issues 4367

 MT-16: Literature and Environmental Awareness 4527

 MT-17: Natural and Man-Made Disasters: Emerging Link and Challenges 4587

 MT-18: Pesticides In The Environment and Food Commodities 4741

 MT-19: The Role of Media: Problems and Challenges 4809

Volume 10: MT-20: Seas, Ecological Balance, and Sustainable Environment. 4915

 MT-21: Social and Psychological Dimensions of Environmental Issues 5117

Index I

Brief Information About Near East University XI

Brief Information About Turkish Republic of Northern Cyprus XV

VI



International Conference on Environment: Survival and Sustainability 19-24 February 2007 Near East University, Nicosia-Northern Cyprus

1998

**PREFACE**

Creating a sustainable and a healthy environment is one of the most important global issues facing mankind today. Therefore, serious consideration should be given to environmental problems and concerted efforts should be made worldwide in order to respond and prevent present and future environmental risks and challenges.

The International Conference on Environment: Survival and Sustainability (ESS 2007) organized by the Near East University between the dates 19 and 24 February 2007 was held in Lefkosa, Turkish Republic of Northern Cyprus. The main objective of this multidisciplinary conference was to gather scientists from all over the world to discuss the overall issue of the environment, to find out sustainable solutions for environmental problems and to identify areas for future collaboration in this matter. The conference brought together 2,052 participants from 108 different countries. During the conference a total of 1,463 papers were presented under 21 different subtopics, representing various scientific disciplines. The topics included environmental law and ethics, environmental knowledge, technology and information systems, media, environmental awareness, education and lifelong learning, the use of literature for environmental awareness and the effects of the green factor in politics and in international relations.

The Scientific Committee of International Conference ESS2007 evaluated all of the 1,463 papers and selected among them 610 papers to be included in The Proceedings of Environment: Survival and Sustainability. The readers will notice the wide range of topics represented by the papers included in the Conference Proceedings.

It is hoped that this book will serve to contribute to increase in awareness towards various environmental issues as well as drawing more attention to the urgency of international cooperation and collaboration in pursuing sustainable environmental management.

Prof. Dr. Huseyin Gokcekus

President of the Conference and the Organizing Committee Vice Rector of the Near East University

Lefko~a-TRNC

18 February 2009

VII

International Conference on Environment: Survival and Sustainability 19-24 February 2007 Near East University, Nicosia-Northern Cyprus

1988

**ACKNOWLEDGMENTS**

The Organizing Committee of the ESS2007 Conference would like to extend its sincere appreciation to Dr. Suat Gi.insel, the Founding Rector of the Near East University, to Prof. Dr. Ekmeleddin lhsanoglu, General Secretary of the Organization of Islamic Conference and to Prof. Dr. Walter W. Kofler, President of ICSD/IAS for their significant support and encouragement in the conference.

Appreciation is also extended to the chairpersons, the keynote speakers and the presenters of papers in the conference.

We are deeply grateful for the members of the editorial board who have carefully read and recommended the papers for publishing.

We also wish to express our gratitude to numerous individuals for their valuable contribution to the editing process.

Prof. Dr. Hi.iseyin Gokcekus

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VIlI

International Conference on Environment: Survival and Sustainability 19-24 February 2007 Near East University, Nicosia-Northern Cyprus

19!lf!

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IX

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x

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| Turkey  |
| Belgium  |
| Namibia  |
| Malawi  |
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| Jordan  |
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| Turkey  |
| Turkey  |
| Turkey  |
| Palestine  |
| Palestine  |
| Austria  |
| Armenia  |
| Ireland  |
| Turkey  |
| Turkey  |
| XI  |

International Conference on Environment: Survival and Sustainability 19-24 February 2007 Near East University, Nicosia-Northern Cyprus

l98~

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XII

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XIII

International Conference on Environment: Survival and Sustainability 19-24 February 2007 Near East University, Nicosia-Northern Cyprus

l9!J8

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| China  |
| UK  |
| New Zealand  |
| UK  |
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| Ghana  |
| Germany  |
| XIV  |

International Conference on Environment: Survival and Sustainability 19-24 February 2007 Near East University, Nicosia-Northern Cyprus

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| Turkey  |
| Germany  |
| Turkey  |
| Iraq  |
| Portugal  |
| UK  |
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| Germany  |
| Slovenia  |
| USA  |
| Brazil  |
| Australia  |
| France  |
| xv  |

International Conference on Environment: Survival and Sustainability 19-24 February 2007 Near East University, Nicosia-Northern Cyprus

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XVI



International Conference on Environment: Survival and Sustainability 19-24 February 2007 Near East University, Nicosia-Northern Cyprus



*It* gives me *the utmost pleasure in welcoming you all to the lflflemational Conference* • *Environment: Survival and Sustainability" here* at *the Near East Unltlerslty* In *Tlllf<Jsh Republic of* Northern C)'ptus ID *be held* at *19-24 February* 2007.

The c:onl8f'elice aimed at *brlnflfllt together more than 2,000 scholars and researchers from over* 90 countries *lllOUlld* the *world* IO *discuss* envlt'onlnental issues *from a variety of perspectives;* iindetllne rtNtImportance *of* the *need for UIJ(enCy in taking steps by the intemationat* Of.......,..., --. *local* authorlries *and non-governmental organizations to* move *to a* sustelnable 8flWDr.menVdellelopment*model; and* thereby makes *Its contribution to worldwide debate effort on* .,.,\_,,..,,llilfChe brldfe .between tlleot)I *and* practJce *In* meeting *environmental threats/challenges.*

Since *our* last *lnlematlonal* cordMNICe on *environment. "EIMtonmentel* Problems *of* the Mediterranean *Regions•, worldwldaetMrorlmental disasters• well• local-~ mu/flplled and environmental degradation and polluflon has continued.* Whlle majorltrides INMI a-n made In the *world* In *analyzing. understandiflll and Informing* the *pub/le* **8llout** Ille ~ cllaHenges *we are facing. we* st/II *have* a IOnilf way to go. *Our way at* life Is *still far from•* ***8Ultaltlllble*** model *and our environment continues to degrade and deteriorate due* to *human activities. The* consequences *can be* seen *In worldwide environmental disasters* as *well* as *locally* In *our dally* /Ives.

*This* Is *fOlfll to be our third lntematiollal conference on Environment organized by our youn.r university* since *It* was *estBblished In 1988.*

Yours sincerely, **Pref.Dr . .....,...~** *Jlice Rector of the Near East Universitv*

XVII



**International Conference on Environment: Survival and Sustainability 19-24 February 2007 Near East University, Nicosia-Northern Cyprus**

**\J**

**l96H**

**VOLUME6**

**MT-7: ENVIRONMENTAL AWARENESS, EDUCATION, AND LIFELONG LEARNING**

ENVIRONMENTAL AWARENESS, EDUCATION AND LIFE-LONG LEARNING BANGLADESH

 M Shamsher Ali - BANGLADESH *(Invited)* 2369

SEEKING ENVIRONMENT AL AWARENESS IN POSTMODERN FICTIONS

 Serpil Opperman -TURKEY *(Invited)* 2375

ENVIRONMENTAL EDUCATION IN BOSNIA AND HERZEGOVINA STATUS, VISIONS AND NEEDS

: Azra Jaganjac, Sanda Midzic-Kurtagic, Paul Ravn Jepsen, Zalkida Hadzibegovic -

 DENMARK, BOSNIA AND HERZEGOVINA *(Oral)* 2387

I

VOCATIONAL EDUCATION AND SUSTAINABLE DEVELOPMENT: EXPLORING THE CONNECTIONS

 Alberto Arenas - USA (Oral) 2395

ENVIRONMENTAL AW ARNESS, EDUCATION AND LIFE LEARNING

 Devrim. Y. Besim - NORTHERN CYPRUS *(Oral)* 2417

UNIVERSITY STUDENTS' VIEWS ABOUT A COURSE ON THE SUSTAINABLE DEVELOPMENT: RESULTS OF A NEED ANALYSIS STUDY

 Mehmet Erdogan, Gaye Tuncer-TURKEY (Oral) 2421

USING OUTDOOR THEATRE FOR ENVIRONMENTAL AWARENESS, EDUCATION AND LIFELONG LEARNING AT THE MOUNT CAMEROON ECO-REGION, CAMEROON

 Edwin Njeba Nganji - CAMEROON *(Oral)* 2435

A PROPOSAL FOR AN ENVIRONMENTAL EDUCATION MODEL AIMING AT SUSTAINABLE DEVELOPMENT

 Oguz Ozdemir, Muammer Tuna - TURKEY *(Oral)* 2441

UNITED NATIONS DECADE OF EDUCATION FOR SUSTAINABLE DEVELOPMENT (2005-2014): THE INITIATIVES OVERSEEN BY THE ITALIAN NATIONAL COMMISSION

 Anna Re- ITALY (Oral) 2451

IMBIBING ENVIRONMENT AL AWARENESS IN SOCIETIES

 Beyza Sat Gungor-TURKEY *(Oral)* 2461

F. NIETZSCHE AND MARTIN HEIDEGGER: BUILDING UP AN ECOPHILOSOPHICAL OUTLOOK

 Ayten Sururi - NORTHERN CYPRUS *(Oral}* 2471

ECOLOGISTS' TRAINING IN FUEL ENERGY AND CHEMISTRY TECHNOLOGY SPHERE IN AZERBAIJAN STATE OIL ACADEMY

 Qarayev Si ya vu sh F arkhad, Akhmedov Zaur Musa - AZERBAIJAN *(Oral)* 24 79

PERCEPTION OF ECOLOGICAL RISKS AS AN ESSENTIAL ASPECT OF ECOLOGICAL CONSCIOUSNESS

 Smolova Lidia- RUSSIA *(Oral)* 2485

AGENTS OF SUSTAINABILITY AND ISSUES IN IMPLEMENTATION OF SUSTAINABILITY PROJECTS

 Nerkis Kura! -TURKEY *(Oral)* 2497

STUDENTS' USAGE LEVEL OF ENVIRONMENT AL ATTITUDES AND USAGE LEVEL OF ENVIRONMENT AL COGNITIVE KNOWLEDGE IN FIFTH GRADE OF THE TURKISH BASIC SCHOOLS

 Tugrul Ural, Eren Sankaya - TURKEY *(Oral)* 2505

LVIII

**International Conference on Environment: Survival and Sustainability 19-24 February 2007 Near East University, Nicosia-Northern Cyprus**

THE EFFECTIVENESS OF ENVIRONMENTAL EDUCATION ON ENVIRONMENTALLY- SENSITIVE BEHAVIORS

Gamze Yucel Isildar, Feriha Y1ldmm-TURKEY *(Oral)* 2517

A STUDY ON THE UTILIZATION OF THE TECHNOLOGICAL MATERIALS USED IN SCIENCE CLASSES BY TEACHERS IN ELEMENTARY SCHOOLS

Mahmut San-TURKEY *(Oral)* 2527

THE RELATIONSHIP BETWEEN THE PLACES WHERE PEOPLE LIVE AND THEIR QUALITY OF LIVING IN TRNC

Hakan Atamtilrk- NORTHERN CYPRUS (Oral) 2533

THE EVALUATION OF ENVIRONMENT AL PERCEPTIONS OF THE STUDENTS AND TEACHERS OF A SECONDARY SCHOOL IN ANKARA

F. Sevencan, F. Temel, G. Boztas, S. Vaizoglu -TURKEY (Oral) 2539

EDUCATION FOR SUSTAINABLE DEVELOPMENT: TRANSFORMING LEARNING INTO REAL LIFE ACTIONS:

EXPERIMENTING ACTION-BASED LEARNING MODEL (ALM) AT ELEMENT ARY SCHOOL LEVEL IN THE CONTEXT OF PAKISTAN

Qamar Shahid Siddiqui - P AKI ST AN *(Oral)* 2543

CHILDREN'S CURIOSITY ON ENVIRONMENTAL ISSUES: TURKISH CASE

Mehmet Erdogan, Murat Aydemir -TURKEY *(Oral)* 2549

PROMOTION OF NURSERY SCHOOL TEACHER AND JUNIOR GRADE TEACHER EDUCATION FOR ENVIRONMENT AND SUSTAINABLE DEVELOPMENT IN CROATIA

Vinka Uzelac, Aleksandra Pejcic, Dunja Andie - CROATIA 2559

LIFELONG LEARNING AS NEW PARADIGM OF EDUCATION FOR ENVIRONMENT AND SUSTAINABLE DEVELOPMENT WITHIN THE CONTEXT OF PROFESSIONAL IMPROVEMENT OF TEACHERS ORIENT A TED TOW ARDS DIRECT RESEARCH OF EDUCATIONAL PRACTICE

Lidija Vujicic - CROATIA (Oral) 2569

STANDPOINTS OF PARENTS AND EDUCATORS TOW ARDS TASKS OF ENVIRONMENTAL EDUCATION IN KINDER GAR TEN

Jurka Lepicnik Vodopivec - *SLOVENIA* (Oral) 2575

ECOLOGICAL EDUCATION IN INTERRELATION WITH EDUCATION FOR SUSTAINABLE DEVELOPMENT

Gagik Torosyan -ARMENIA *(Oral)* 2585

A COMPARATIVE STUDY OF TEACHER'S ATTITUDES TOWARDS ENVIRONMENTAL ISSUES

Cem Birol, Zafer Bekirogullari, Ceren Paralik- NORTHERN CYPRUS *(Oral)* 2591

EVALUATION OF THE ENVIRONMENT PROTECTION EDUCATION PROJECTS IN THE SPECIALLY PROTECTED AREAS

Nairn Uzun, Funda Varnaci - TURKEY *(Poster)* 2603

CHILDREN EDUCATION: FOUNDATION FOR GREEN FUTURE

Maryam Salek Zamani, Ali Salek Zamani, Yagub Salek Zamani - IRAN *(Poster)* : 2613

\_\_ \_\_\_.,

LIX

**International Conference on Environment: Survival and Sustainability 19-24 February 2007 Near East University, Nicosia-Northern Cyprus**

**1986**

**MT-8; ENVIRONMENTAL KNOWLEDGE AND INFORMATION SYSTEMS**

SURVEY OF NATURAL RESOURCES IN THE BASIN OF KUFRINJA VALLEY AND INVESTMENT BY USING TECHNIQUE OF REMOTE SENSING

Aiad Ashor Altaay, Ali Abdual'Zeahrah Alwaily, Mohammad Yousif al Hity - IRAQ *(Oral)* 2615

----

AUTOMATED VERSUS MANUAL LINEAMENT ANALYSIS .•.

Gulcan Sarp, Vedat Toprak-TURKEY (Oral) 2631

EFFECTS OF TELECOMMUTING ON SUSTAINABLE URBAN DEVELOPMENT AND ENVIRONMENT

Filiz Alkan Me~hur-TURKEY *(Oral)* 2647

HISTORICAL DEVELOPMENT OF THE MERIC RIVER DEL TA: FROM 16TH CENTURY TO PRESENT

Cankut Ormeci, Semih Ekercin -TURKEY (Oral) 2657

MUL TITEMPORAL CHANGE DETECTION AT THE SALT LAKE IN TURKEY USING REAL-TIME SPOT IMAGERY AND IN-SITU SPECTRAL MEASUREMENTS

Cankut Ormeci, Semih Ekercin - TURKEY *(Oral)* 2667

AN INTELLIGENT SYSTEM FOR INTEGRATED SOLID WASTE MANAGEMENT

Latifah Abd Manaf- MALAYSIA (Oral) 2675

GIS BASED RISK QUALITY OBSERVATION ANALYSIS AT GEDIZ BASIN IN IZMIR METROPOLITAN MUNICIPALITY BOUNDARY

Vildan Gundogdu, Mi.inevver Elele, Gozde Akgi.in -TURKEY (Oral) 2687

REHABILITATION OF ASBESTOS M~G WASTE: A REHABILITATION PRIORITISATION INDEX (RPI) FOR SOUTH AFRICA

L. van Rensburg, S. Claassens, J.J. Bezuidenhout, P.J. Jansen van Rensburg - SOUTH AFRICA *(Oral)* 2701

A CASE STUDY ON OPTIMAL LAND USE OF SELCUK (IZMIR) AND ITS ARROUND

Emine Zaimoglu, Umit Erdem-TURKEY (Oral) 2711

DEFINING LAND COVER TYPE OF EDREMIT REGION IN TURKEY BY USING OPTICAL AND RADAR FUSED IMAGES

Y. Kurucu, F. Balik Sanli, M.T. Esetlili -TURKEY *(Oral)* 2727

SOIL CLASSIFICATION STUDY USING GEOMORPHOLOGIC BASED METHOD CASE STUDY: ZIDASHT REGION, IRAN

Mohsen Maleki, Marzieh Mosayebi- IRAN (Oral) 2739

A NATIONAL MONITORING SYSTEM FOR RANGE ASSESSMENT IN IRAN

H. Arzani, M. Frahpour, M. Azimi, H. Mirdavodi, M.Borhani, J. Abdollahi- IRAN *(Oral)* 2747

AIRBORNE HYPERSPECTRAL IMAGING SYSTEM FOR MANAGEMENT AND CONSERVATION OF MOUNTAIN FOREST PARK IN KELANTAN, MALAYSIA

Kamaruzaman Jusoff, Dahlan Taha - MALAYSIA (Oral) 2761

STUDY OF ENVIRONMENTAL DEGRADATION AROUND THE JAJRUD RIVER USING GEOGRAPHICAL INFORMATION SYSTEM AND REMOTE SENSING

Ammar Rafiei Emam- IRAN (Oral) 2769

PROPOSED STRATEGY FOR EST AB LIS HING A TURKISH ENVIRONMENT AL INFORMATION EXCHANGE NETWORK

Mehmet Karaoglan , Mustafa Aydin, Ozlern Esengin -TURKEY (Oral) 2775

A DECISION SUPPORT SYSTEM FOR WATER RESOURCES MANAGEMENT

D. Ouazar, M. Touji, M.D. Hasnaoui- MOROCCO *(Oral)* 2785

LX

**International Conference on Environment: Survival and Sustainability 19-24 February 2007 Near East University, Nicosia-Northern Cyprus**

ENVIRONMENTAL INSITE: AN ENVIRONMENTAL INFORMATION SYSTEM USED FOR ASSESSING GROUNDWATER QUALITY IN MERSIN

Zeynel Demi rel, Zafer Ozer, Olcay Gulcicek, Aylin Kaya - TURKEY *(Poster)* 2793

**MT-9: ENVIRONMENTAL LAW AND ETHICS**

THE EUROPEAN HUMAN RIGHTS COURT AND ENVIRONMENTAL PROTECTION

Niikhet Yilmaz Turgut - TURKEY *(Invited)* 2807

ENVIRONMENT AL LAW AND FOREST LEGISLATION IN IRAN

S. Mohsen Hosseini, Moslem Akbarinia - IRAN *(Invited)* 2823

LIABILITY OF THE POLLUTANT: CRIMINAL & CIVIL

Emel Badur, Burcu Ertem -TURKEY *(Oral)* 2833

ENVIRONMENTAL RIGHT IN TURKISH CONSTITUTIONAL LAW

Funda Cetindag, llker Kihc - TURKEY *(Oral)* 2845

WHY DO WE CARE? ETHICS AND HONESTY ABOUT ENVIRONMENTAL ISSUES

Sevda Caliskan -TURKEY *(Oral)* 2853

EVALUATION OF RECENT AMENDMENTS IN ENVIRONMENT LAW

Huriye Kubilay, Meltem Kutlu Giirsel, Muhlis Ogiitr;:ii-TURKEY *(Oral)* 2863

SUSTAINABLE DEVELOPMENT AND ENVIRONMENTAL JUSTICE

Mahir Fisunoglu, Berna Baler Izgi -TURKEY (Oral) 2869

ENVIRONMENTAL LAW AND ETHICS

Ghorban Elmi - IRAN *(Oral)* 2879

ASSESSING ENVIRONMENT AL IMP ACT ASSESSMENT AN INDIAN CRITIQUE

Nawneet Vibhaw - INDIA *(Oral)* 2889

**MT-10: ENVIRONMENTAL ORGANIZATIONS: ROLES, PROBLEMS AND PROSPECTS**

HOW THE ENVIRONMENTAL PROFESSIONALS IN TURKEY PERCEIVE THE "ENVIRONMENT'' AND ACT?

Gamze Yiicel I~ildar-TURKEY (Oral) 2895

THE ROLE OF NON GOVERNMENT AL ORGANIZATIONS IN REALIZATION OF SUSTAINABLE DEVELOPMENT:

TURKISH CASE

ElifKarakurt Tosun, Canturk Caner-TURKEY *(Oral)* 2907

ENVIRONMENTAL ESTABLISHMENTS AND ORGANIZATION

Aylin Cincinoglu Salici, Nurgiil Konakli, Onur Boyacigil, Faruk Altunkasa -TURKEY *(Oral)* 2917

LXI

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