This book is published under the auspices of the Prime Ministry of the Turkish Republic of Northern Cyprus.
Published By: EDUCATIONAL FOUNDATION OF NEAR EAST UNIVERSITY, Near East University, Lefkoşa, Turkish Republic of Northern Cyprus.
Tel/Fax: +90 392 223 5427
Tel: +90 392 236 464/460
Fax: +90 392 236 461
e-mail: ghuseyin@kktc.net
e-mail: ghuseyin@neu.edu.tr

Copyright: EPMR - 2002
Reproduction of this publication for educational or other non-commercial purposes is authorized without prior permission from the copyright holder. Reproduction for resale or other commercial purposes prohibited without prior written permission of the copyright holder.

Citation: Göçekmuş, H., 2003, (Editor) Proceedings of the International Conference on Environmental Problems of the Mediterranean Region, EPMR - 2002, vols. 1, 2 and 3 Educational Foundation of Near East University, Near East University, Lefkoşa, Turkish Republic of Northern Cyprus, 1591p.

ISBN: 975 – 8359 – 23 – 1 (Complete set of three volumes)
975 – 8359 – 24 – x (Volume I)

Disclaimer: While every effort has been made to ensure the accuracy of the information, contained in this publication, the EDUCATIONAL FOUNDATION OF the NEAR EAST UNIVERSITY will not assume liability for any use made of the proceedings and the presentation of the participating organisations concerning the legal status of any country, territory, or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries.

Printed By: TRNC State Printing Office.
Tel: +90 0392 22 82 261
FOREWORD

In April 2002, a four-day International Conference on the Environmental Problems of the Mediterranean Region was held in Lefkoşa, Northern Cyprus organized by the Near East University. The Conference received 500 articles presented by about 1000 scientists from over 60 countries at 7 halls and in 62 sessions.

The Conference covered a large spectrum of topics in an attempt to bring together all concerns on the environment. Namely, the topics were:


At the end of the Conference, the Scientific Advisory Committee summarised the following conclusions as a gist of the papers presented.

1. In the Mediterranean Region water resources should be managed in an integrated way considering both the quantity and quality for different uses (drinking, agriculture, and industry). Special attention should be paid to coastal zones where land and water interrelate.

2. Groundwater overexploitation should be prevented especially in coastal zones where it might produce seawater intrusion and land subsidence problems.

3. Biodiversity is the key global concern for preserving life on earth as it influences climate. Anthropogenic impacts reduce biodiversity and the functioning of the ecosystem together with the self-regulation of our planet. Biodiversity should be fundamental in drawing up sound socio-economic policies.

4. Coastal zones are fragile ecosystems, which can easily be jeopardized by surface and groundwater run-off and discharges such as agricultural, industrial, oil and wastewater.

5. Management of coastal zones should be based on ecological information and considerations. Establishment of ecological inventories should be encouraged.

6. Synergy between international programs for introducing and strengthening integrated coastal management in the Mediterranean Region and the work of the academic community needs to
be improved. Lessons learned from these efforts should be shared regionally and accumulated so that to create the Mediterranean practice of integrated coastal management.

7. Water quality management practices should be improved by adopting integrated measures for controlling contamination, setting appropriate standards, effective treatment systems and broad monitoring programs.

8. The Conference calls for the full implementation of land based resources protocol. Proper management of solid and hazardous wastes is needed.

9. Public awareness and education are prerequisites for effective environmental management.

10. Governmental and non-governmental efforts aiming at protecting the environment should be strengthened and supported.

11. The gathering of meteorological and hydrological data developed in databanks is recommended so as to disseminate results to all the riparian countries of the Mediterranean.

12. Natural disasters may cause major environmental damages so that integrated action plans should be made compulsory in all countries.

13. Used water should be treated so as to achieve good quality conditions by applying PP technologies taking into consideration EIA studies. Wastewater treatment and reuse should be developed considering ecological engineering technique such as natural microorganisms, phytoremediation, etc.

14. Agro-ecological zones should be defined in the Mediterranean Region keeping in mind the minimum technology impact implying indigenous technical knowledge with special emphasis on irrigation methods.

15. A new paradigm offering to view water not as unique but as a commodity so that an internal market structure could be created to achieve an auto-integrated water management system for all the stakeholders was recommended for promotion and further research.

16. The major rules and principles of environmental law, which differ from the traditional branches of the law, and recognized at the universal level should be both adopted and properly implemented to protect all the components of the environment. Through the application of the precautionary principle special attention should be paid to remove or at least minimize the risks concerning the issue of "scientific uncertainty", and arising from newly developed technologies. Effective precautionary measures should particularly be taken to protect the rich genetic resources and biodiversity of the Mediterranean Region in the face of possible adverse effects of genetically modified plants. And an efficient "civil liability" type should be adopted
for such a sensitive issues as well as mining activities that cause severe destruction in the land ecosystem.

Limited by the size of its special, we could only publish selected papers from the conference in this special issue. The criteria for selection of the papers were in accordance with the publication policy of the journal. The foregoing brief description is intended to provide the readers with a general idea regarding the conference. You are welcomed to obtain further information on any specific topic by emailing a request to ghuseyin@neu.edu.tr

We are indebted to the editor Dr. Shahamat U. Khan for giving us the opportunity to publish the selected papers from the conference in this special issue of *Journal of Environmental Science and Health,* Part A.

---

*Prof. Dr. Hüseyin GÖKÇEKUŞ*
Chairman of the Technical & Organizing Committee
*Conference on the Environmental Problems of the Mediterranean Region*
16.08.2003

*Professor Dr. Hüseyin GÖKÇEKUŞ*
Vice Rector
*Near East University*
*Lefkoşa, Turkish Republic of Northern Cyprus*
*Mersin 10, TURKEY*

*Tel/Fax:* +90 392 223 5427  
*E-mail:* ghuseyin@neu.edu.tr  ghuseyin@kktc.net
for such a sensitive issues as well as mining activities that cause severe destruction in the land ecosystem.

Limited by the size of its special, we could only publish selected papers from the conference in this special issue. The criteria for selection of the papers were in accordance with the publication policy of the journal. The foregoing brief description is intended to provide the readers with a general idea regarding the conference. You are welcomed to obtain further information on any specific topic by emailing a request to ghuseyin@neu.edu.tr

We are indebted to the editor Dr. Shahamat U. Khan for giving us the opportunity to publish the selected papers from the conference in this special issue of Journal of Environmental Science and Health, Part A.

Prof. Dr. Hüseyin GÖKÇEKUŞ
Chairman of the Technical & Organizing Committee
Conference on the Environmental Problems of the Mediterranean Region
16.08.2003

Professor Dr. Hüseyin GÖKÇEKUŞ
Vice Rector
Near East University
Lefkoşa, Turkish Republic of Northern Cyprus
Mersin 10, TURKEY

Tel/Fax: +90 392 223 5427
E-mail: ghuseyin@neu.edu.tr ghuseyin@kktc.net
TECHNICAL AND ORGANIZATION COMMITTEE

HONORARY CHAIRMAN
Dr. Suat İ. GÜNSEL
Founding President, Near East University

CHAIRMAN
Prof. Dr. Hüseyin GÖKÇEKUŞ
Secretary General, Near East University

MEMBERS

Prof. Dr. Ümit HASSAN
Rector, Near East University

Prof. Dr. Derin ORHON
Dean, İstanbul Technical University

Prof. Dr. Vedat DOYURAN
Middle East Technical University

Prof. Dr. Walter KOFLER
University of Innsbruck

Ahmet ERTUĞAN (Committee Secretary)
Near East University

Prof. Dr. Fahrettin MAMEDOV
Vice Rector, Near East University

Prof. Dr. Tahir ÇELİK
Near East University

Dr. Kadri BÜRÜNCÜK
Near East University

Assoc. Prof. Dr. Doğan İBRAHİM
Near East University

Dr. Doğan HAKTANIR
Near East University

Dr. Erdal GÜRYAY
Near East University

Doğan SAHİR
Near East University

Temel RIZZA
Near East University

Tolga GÜNAL
Near East University

Uğur H. CAN
Near East University

Yousef BAALOUSHIA
Near East University
SCIENTIFIC COMMITTEE MEMBERS

Assoc. Prof. Dr. Nesrin Algan
Ankara Üniversitesi, Siyasal Bilgiler Fakültesi, Cebeci, Ankara, TÜRKİYE

Prof. Dr. Taleb Abu-Sharar
Institute of Land, Water and Environment, The Hashemite University, Zarqa, JORDAN

Prof. Dr. Bahri Akissa
Ministere de L’Agriculture Centre de Recherche du Genie Rural B.B. 10 Ariana-2080, TUNISIA

Prof. Dr. Rocio Fernandez Ales
Department of Biology and Ecology University of Sevilla, Apt. 1095 41080 Sevilla, SPAIN

Prof. Dr. Doğan Altunbilek
İnşaat Mühendisliği Bölümü, Orta Doğu Teknik Üniversitesi, Ankara, TÜRKİYE

Assoc. Prof. Dr. Waleed K. Al-Zubari
Director, Desert and Arid Zones Sciences Program, School of Graduate Studies, Arabian Gulf University, P.O. Box 26671, BAHRAIN

Prof. Dr. Ayman Abou-Hadid
Ministry of Agriculture and Land Reclamation Agricultural Research Center, Central Laboratory for Agricultural Climate, 6, Michael Bakhom St.Dokki P.O. Box 296 Imbaba 12411 Giza, EGYPT

Prof. Dr. Aurel Ardelean
Rector, University of Vest "Vasile Goldis", 2900 ARAD, Bd. Revolutiei nr.81, ROMANIA

Prof. Dr. Alparslan Arikan
Hacettepe Universitesi, Çevre Mühendisliği Bölümü, 06532 Beytepe – Ankara, TÜRKİYE

Prof. Dr. Can Ayday
Anadolu Üniversitesi, Uydu ve Uzay Bilimleri Araştırma Enstitüsü Müdürlüğü, İki Eylül Kampüsü, 24470, Eskisehir, TÜRKİYE

Prof. Dr. Adnan Aydin
Marmara Üniversitesi Fen Bilimleri Enstitüsü Müdürü ve Çevre Araştırma Merkezi Müdürlüğü, Göztepe Kampüsü, Kadıköy, İstanbul, TÜRKİYE

Dr. Vittorio Barale
Joint Research Centre of European Commission CCR (tp 263), 21020 Ispra (VA), ITALY

Prof. Dr. Giovanni Barrocchi
Department of Territorial Engineering Engineering Geology and Applied Geophysics, University of Cagliari, ITALY

Prof. Dr. Frank Berendse
Wageningen University, Department of Environmental Sciences Nature Conservation and Plant Ecology Group, Bornseesteg 69, 6708 PD Wageningen, NETHERLANDS

Prof. Dr. Guillermo Cabrera Fajardo
University of Chile, Maria Luisa Santander 0410 Santiago Providence, CHILE

Prof. Dr. Mustafa B. A. Djamoze
Department of Biologicaly Sciences, Sir Alexander Fleming Building, Imperial College of Science, Technology Medicine, LONDON SW7 2 AZ, UK

Prof. Dr. Chuquin Chen
South China Sea Institute of Oceanography, Chinese Academy of Sciences, 164 West Xingang Road Guangzhou 510301, CHINA

Prof. Dr. Alexander H. Cheng
Department of Civil and Environmental Engineering, University of Delaware Newark, Delaware 19716, USA

Prof. Dr. Julio Manuel Cruz Morais
Departments of Chemistry University of Évora Romão Ramalho Str, 59 P 7000-671 Évora, PORTUGAL
Assoc. Prof.Dr. Zeki Çamur
Jeoloji Mühendisliği Bölümü, Mühendislik Fakültesi, Orta Doğu Teknik Üniversitesi, Ankara, TÜRKİYE

Prof.Dr. Vedat Doyuran
Jeoloji Mühendisliği Bölümü, Mühendislik Fakültesi, Orta Doğu Teknik Üniversitesi Ankara, TÜRKİYE

Dr. Mutasem El-Fadel
Department of Civil and Environmental Engineering, American University of Beirut, P.O.Box:11-0236 Riad El Solh Beirut 1107 2020, LEBANON

Prof. Bouchaib El Hamouri
Wastewater treatment and reuse unit Institut Agronomique et Vétérinaire Hassan II Bp 6202 Instituts Rabat, MOROCCO

Prof. Pehr H Enckell
Oikos Ecology Building, SE-223 62 Lund, SWEDEN

Prof. Dr. Ümit Erdem
Peyzaj Mimarlığı Bölümü, Ege Üniversitesi, İzmir, TÜRKİYE

Prof. Dr. Mustafa Erdik
Deprem Anabilim Dalı Başkanlığı, Kandilli Rasathanesi ve Deprem Araştırma Enstitüsü, Boğaziçi University, 81220 Çengelköy, İstanbul, TÜRKİYE

Prof. Dr. Edip Erenler
Stuttgart Technical University, Stuttgart, GERMANY

Prof. Dr. Aziz Ertenç
Süleyman Demirel Üniversitesi Mühendislik – Mimarlık Fakültesi Dekani, Isparta, TÜRKİYE

Prof. Dr. Klára Dózsa-Farkas
Department of Systematic Zoology and Ecology, ELTE University, Budapest 1445 Pf. 330, HUNGARY

Prof. Dr. Tom Frisk
Pirkanmaa Regional Environment Centre, P.O. Box 297 FIN-33101 Tampere, FINLAND

Prof. Dr. Hüseyin Gökçekuş
Secretary General, Near East University, Lefkoşa, TURKISH REPUBLIC OF NORTHERN CYPRUS

Prof. Dr. Albrecht Gnauck
Brandenburgische Technische Universität, Postbach 10134403013, Fakultat 4 Cottbus, GERMANY

Dr. Nilson Guiguer
Waterloo Hydrogeologic Inc., 180 Colombia Street West – Unit 1104 Waterloo, Ontario, Canada N2L 3L3, CANADA

Prof. Dr. Ümit Hassan
Rector, Near East University, Lefkoşa, TURKISH REPUBLIC OF NORTHERN CYPRUS

Prof. Dr. Emir Henden
Kimya Bölümü, Fen Fakültesi, Ege Üniversitesi, 35100 / Bornov, İzmir, TÜRKİYE

Prof. Dr. Ivanildo Hespanhol
University of Sao Paulo Polytechnic School, Department Hydraulic and Sanitary Engineering, Av. Prof. Almedia Prado 271, Cidade Universitaria, P.O. box 61548 05508-900 Sao Paulo SP, BRAZIL

Dr. Sabir Israfilov
Environmental protection Society, AZERBAIJAN

Prof. Dr. Selim Kapur
Toprak Bilimi Bölümü, Çukurova Üniversitesi, 01330 Balcalı, Adana, TÜRKİYE

Prof. Dr. Nurkan Karahanoglu
Jeoloji Mühendisliği Bölüm Başkan, Mühendislik Fakültesi, Orta Doğu Teknik Üniversitesi, Ankara, TÜRKİYE

Prof. Dr. Erçin Kasapoğlu
Jeoloji Mühendisliği Bölümü, Hacettepe Üniversitesi, Beytepe – Ankara, TÜRKİYE
Prof. Dr. Ahmed Kettab  
Director of Scientific Research Laboratory, Ecole National Polytechnique, 10, Av.Hacéne-Badi, El-Harrach 16200, ALGERIA

Prof. Dr. Gilbert Kelling  
Emeritus Professor, OBE School of Earth Sciences & Geography,  
Keele University, Staffordshire ST5 5BG, ENGLAND UK

Prof. Dr. Sándor Kerekes  
Department of Environmental Economics & Technology, Budapest University, Economics Fővámtér 8, H – 1013 Budapest, HUNGARY

Prof. Dr. Walter Koffler  
University of Innsbruck, Institute of Hygiene and Social Medicine, Dept.Social Medicine & Public Health, A-6020 Innsbruck, Sonnenburgstrasse 16, AUSTRIA

Prof. Dr. Josef Kris  
Department of Sanitary Engineering, Faculty of Civil Engineering, Slovak University of Technology, Radlinského N. 11, 813 68 Bratislava, SLOVAK REPUBLIC

Dr. Limas Kupcinskas  
Department of Botany, Lithuanian University of Agriculture Studentu 11, kademijos miestelis Kauno raj. LT 4324, LITHUANIA

Prof. Dr. Stanislaw Lasocki  
University of Mining and Metallurgy, Department of Geophysics, Al. Mickiewicza 30 Krakow 30-059, POLAND

Prof. Dr. Tarzan Legovic  
Center for Marina Research, R. Boskovic Institute, Bijenica P.O.Box: 1016, HR-41001 Zagreb, CROATIA

Dr. Valdo Liblik  
Tallinn University of Educational Sciences Institute of Ecology North East Estonian Department, ESTONIA

Prof. Dr. Fahreddin Mamedov  
Vice Rector, Near East University, Lefkoşa, TURKISH REPUBLIC OF NORTHERN CYPRUS

Prof. Dr. Ramiz Mamedov  
Institute of Geography of the Azebaycan Academy of Science (IG AAS) 31, Javid pr., Baku 370143, AZERBAIJAN REPUBLIC

Asst. Prof. Dr. Hatem M'henni  
Ecole Superieure des Sciences Economiques et Commerciales de Tunis 4, Rue Abou Zakaria El Hafi 1008 Montfleury, TUNISIA

Prof. Dr. Derin Orhon  
Inşaat Fakültesi Dekani, Istanbul Teknik Üniversitesi, 80626 Maslak, Istanbul, TÜRKİYE

Prof. Dr. Skender Osmani  
Faculty of Geology & Mines, Tirana, ALBANIA

Prof. Dr. Harun Özer  
Dean of the Faculty of Architect, Near East University, Lefkoşa, TURKISH REPUBLIC OF NORTHERN CYPRUS

Prof. Dr. Erdal Özhan  
MEDCOAST Başkan, İnşaat Mühendisliği Bölümü, Mühendislik Fakültesi, Orta Doğu Teknik Üniversitesi, 06531 Ankara, TÜRKİYE

Prof. Dr. Juan Mora Pastor  
University of Alicante, Analytical Chemistry Apart.99, Alicante 03800, SPAIN

Prof. Gérard Pergent  
University of Corsica, Faculty of Sciences Box: 52-20250 CORTE, FRANCE

Prof. Christine Pergent-Martini  
University of Corsica Faculty of Sciences Box: 52-20250 CORTE, FRANCE
International Conference on the Environmental Problems of the Mediterranean Region,
12-15 April, 2002, Near East University, Nicosia, TRNC

1988

Prof. Dr. Bachir Raissouni
School of Science / Engineering Al Akhawayn University, AU I / SEE BP 1884
Iframe, 53000, MOROCCO

Prof. Dr. Jose A. Raynal
Department of Civil Engineering, University of Las Americas- Puebla 72820 Cholula, Puebla. P.O. Box 412, MEXICO

Prof. Dr. Sulejman Redzic
Center of Ecology and Natural Resources Faculty of Science University of Sarajevo 35 Zmaja od Bosne St. 71 000 Sarajevo, BOSNIA and HERZEGOVINA

Dr. Malcolm Ross
Environmental Sciences Laboratory, Brooklyn College Brooklyn, NY 11 210, USA

Prof. Dr. Ulrich Rott
Stuttgart University, 70569 Stuttgart (Büsnau) Bandtale 2, GERMANY

Prof. Dr. İkay Salıhoğlu
Deniz Bilimleri Enstitüsü Müdürü, Orta Doğu Teknik Üniversitesi, Erdemli, 33731, İçel, TÜRKİYE

Prof. Dr. Cemal Saydam
Yer, Deniz ve Atmosfer Bilimleri Araştırma Gurubu Başkanı, TÜBİTAK, Ankara, TÜRKİYE

Prof. Dr. Gert A Schultz
RUHR University of Bochum Department Hydrology, Water Managemnt 44780, Bochum, GERMANY

Dr. Josef Sejak
Director of Czech Environmental Institute, CZECH REPUBLIC

Prof. Dr. Zekai Şen
Hidrolik Anabilim Dalı, İnşaat Fakültesi, İstanbel Teknik Üniversitesi. Maslak, İstanbul, TÜRKİYE

Dr. Aholfaz Shamsai
Sharif University of Technology, P.O. Box 11365 9313 Tehran I.R. IRAN

Dr. Abdulbashar M. Shahalm
Department of Civil Engineering, Sultan Qaboos University, P.O. Box-33, Al-Khod Muscat 123, SULTANATE OF OMAN

Prof. Dr. Mandouh Shahin
Water Resources Engineering, Consultant Flaviussstraal 11, 2275 VG Voorburg, THE NETHERLANDS

Prof. Dr. Shamim Ahmad
Department of Civil Engineering, University of Qatar, QATAR

Dr. Patrick Silan
President of French society of Ecology, Vice-Presdt of the European Ecological Federation, CNRS 1 Quai de la Daurade, 34200 Sete, FRANCE

Prof. Dr. Arne Skorping
Department of Ecology/Zoology, University of Tromso, N-9037 Tromso, NORWAY

Dr. Irena Skorepova
Department of Environmental Risks and Monitoring Czech Environmental Institute Vrsoviccká 6510 Prague 10, CZECH REPUBLIC

Prof. Dr. Valerii Tonkopii
Inst.Lake Res., Russian Acad Sci., Sevastianov str.9, 196199 St. Petersburg, RUSSIA

Prof. Dr. Nukhet Turgut
Hukuk Fakültesi, Ankara Universitesi,Cebeci Ankara, TÜRKİYE

Prof. Dr. Yıldırım Uler
Dean, Faculty of Law, Near East University, Lefkoşa, TURKISH REPUBLIC OF NORTHERN CYPRUS

Dr. Silvana Vallerga
IMC, Localita Sa Mandini, 09072 Torregrande –Oristano, ITALY
Prof. Dr. Rudi van Aarde
Conservation Ecology Research Unit, University of Pretoria, Pretoria 0002, REPUBLIC OF SOUTH AFRICA

Prof. Dr. Kristine Walraevens
Gent University, Vakgroep Geologie en Bodemkunde, Geologisch Instituut 68 Krijgspla 281, B-900, Gent-BELGIUM

Prof. Dr. Allan T. Williams
Air Terra Water Ltd., Environmental Consultants, 21 Beach Road, Newton, Porthcawl, Wales, CF36 5NH England, UK

Prof. Dr. Hasan Yazıcıgil
Jeoloji Mühendisliği Bölümü, Orta Doğu Teknik Üniversitesi, Ankara, TÜRKİYE

Prof. Dr. Orhan Yenigün
Çevre Mühendisliği Bölümü, Boğaziçi Üniversitesi, İstanbul, TÜRKİYE

Prof. Dr. Ülkü Yetiş
Çevre Mühendisliği Bölümü Başkanı, Orta Doğu Teknik Üniversitesi, Ankara, TÜRKİYE
# TABLE OF CONTENTS

## Volume I

### SESSION 1: LAND AND SOIL DEGRADATION

<table>
<thead>
<tr>
<th>Title</th>
<th>Author(s)</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Effects Of The Dams On The Environment</td>
<td>Aziz ERTÜNÇ – TURKEY</td>
<td>1</td>
</tr>
<tr>
<td>Erosion Processes In Southern Italy: The Rendina Case History</td>
<td>U. FRATINO, F. COTECCHIA and I. TRULLI – ITALY</td>
<td>7</td>
</tr>
<tr>
<td>Soil Organic Matter Distribution With The Depth In A Forest Soil</td>
<td>F. GUERRERO, A. P. FERNÁNDEZ-GETINO AND J. M. GASCO – SPAIN</td>
<td>27</td>
</tr>
<tr>
<td>Watershed Erosion And Siltation-Up Of Large And Small Dams In North Africa</td>
<td>Lahliou ABDELHADI – MOROCCO</td>
<td>31</td>
</tr>
<tr>
<td>The Effects Of Nitrogenous Fertilizer ( \text{NH}_4\text{no}3 ) And Nitrification In Hibitor On Methane Oxidation In Soils</td>
<td>Emine Erman KARA – TURKEY</td>
<td>35</td>
</tr>
<tr>
<td>Murat Pasha Foundation Farm As A Natural Conservation Area In Antalya</td>
<td>Mustafa SARI &amp; Ibrahim BAKTIR – TURKEY</td>
<td>41</td>
</tr>
<tr>
<td>Changes In Rate Of Sediment Transport Due To Sediment Withdrawal At Thalweg Levels</td>
<td>Umut TÜRKER – TURKISH REPUBLIC OF NORTHERN CYPRUS</td>
<td>45</td>
</tr>
<tr>
<td>Experimental Assessment Of Water Erosion In Tunisia</td>
<td>S. Jebari TESTOURI, M. KAABIA and Z. CHAABOUNI – TUNISIA</td>
<td>61</td>
</tr>
<tr>
<td>Water Stress Effect On Grain Yield, Some Morphological Criteria And Heading And On Their Relationship In Barley</td>
<td>Sehabi MILOUDA and Hanifi-Mekliche LEILA – ALGERIA</td>
<td>65</td>
</tr>
<tr>
<td>Effect Of Soil Potential And Cultivation To The Environment</td>
<td>Nihat NALBANTOĞLU and Erdal GÜRYAY – TURKISH REPUBLIC OF NORTHERN CYPRUS</td>
<td>71</td>
</tr>
</tbody>
</table>

### SESSION 2: WATER QUALITY MANAGEMENT, CONTAMINATON, TREATMENT AND MONITORING

<table>
<thead>
<tr>
<th>Title</th>
<th>Author(s)</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Quality Component Assessment for Irrigation Water Management Plan in the k. Menderes River Basin, İzmir - Turkey</td>
<td>Ö. Tolga PUSATLI and M. Zekî ÇAMUR – TURKEY</td>
<td>75</td>
</tr>
<tr>
<td>Title</td>
<td>Authors</td>
<td>Country</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>A Comparison Of Chemical Parameters And Biotic Indices For Assessment Of Water Quality In Melen River</td>
<td>Nurtuğ OZ, Ayhan ŞAMANDAR, Bülent ŞENGÖRÜR, Ömer ÖĞLENI</td>
<td>TURKEY</td>
</tr>
<tr>
<td>Characterization And Variations Of Water Parameters In Bizerte Lake (Tunisia)</td>
<td>Nejla ALOUI-BEJAOU     and Slim GAÑA</td>
<td>TUNISIA</td>
</tr>
<tr>
<td>Hydro-Optical Studies Of The Izmir Bay Eastern Aegean, Turkey: Relation Between Secchi And Light Transmission Data From 1996 To 2001</td>
<td>E. SAYIN, I. (ERDEN) PAZI and S.ADAŁIĞLU</td>
<td>TURKEY</td>
</tr>
<tr>
<td>Monitoring And Diagnostic Modeling Of Water Fluxes And Circulation In The South Lake Of Tunis</td>
<td>Slim GAÑA and Monia KOCHLEF</td>
<td>TUNISIA</td>
</tr>
<tr>
<td>Corrosion And Precipitation Study Of Rasht'S Water Supply Resources</td>
<td>Parvin RAMEZANI</td>
<td>IRAN</td>
</tr>
<tr>
<td>Quality Of Drinking Water In Adana, Turkey Between 1997-2000</td>
<td>KARA E, DEMİRİNDİ H, TANİR F, AKBABA M AND PIŞKİN A</td>
<td>TURKEY</td>
</tr>
<tr>
<td>A Towed Device For The Induction Of Vertical Currents And Mixing In Stagnant Waters</td>
<td>Deniz ÜNSALAN, Kunsel İzet ÜNSALAN</td>
<td>TURKISH REPUBLIC OF NORTHERN CYPRUS-ROMANIA</td>
</tr>
<tr>
<td>SESSION 3: WASTEWATER TREATMENT AND REUSE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Small-Scale Activated Sludge Process: Process Sensitivity And Optimal Control Strategies Under Fluctuating Inflow, Pollution And Environmental Factors</td>
<td>Abulbashar M. SHAHALAM</td>
<td>KUWAIT</td>
</tr>
<tr>
<td>Wastewater Reuse In Lefkosa, Northern Cyprus</td>
<td>Burak ÇELIK, Ali GÜNYAKTI and Zeki KIRIMIZI</td>
<td>TURKISH REPUBLIC OF NORTHERN CYPRUS</td>
</tr>
<tr>
<td>Biological Denitrification Using Organic Substances</td>
<td>B. ÖVEZ, M. YÜKSEL, M. SAGLAM, S. DEMİRİC İ and T. AKTAŞ</td>
<td>TURKEY</td>
</tr>
<tr>
<td>Klebsiella Oxytoca, A Phenol-Degradating Bacterium From A Natural Olive Mill Wastewater Evaporating Pool</td>
<td>Abdelghani EL ASLI, Faouzi ERRACHIDI and Mohamed ERRAMI</td>
<td>MOROCCO</td>
</tr>
<tr>
<td>Biological Hydrogen Production From Olive Mill Wastewater By Rhodobacter Sphaeroides O.U.001</td>
<td>Ela EROĞLU, İnci EROĞLU, Ufuk GÜNDÜZ, Meral YÜCEL and Lemi TÜRKER</td>
<td>TURKEY</td>
</tr>
<tr>
<td>The Production Of Borosuperphosphate Fertilizer The Iodine – Bromium Mixture Waste Water</td>
<td>Gülhane AHMETLI, Kemal GÜR, Fikret HACIZADE, Mürvet ABBASOY and Firengiz NOVRUZOV</td>
<td>TURKEY</td>
</tr>
<tr>
<td>Participatory Wetland Construction For Domestic Wastewater Treatment: Eskikarağaç Village Case Study</td>
<td>Nuray ATEŞ and Uyar ÖZESMI</td>
<td>TURKEY</td>
</tr>
<tr>
<td>Elimination Of Pollutants In Wastewater By Sepiolite</td>
<td>E. SABAH, O. ÖZDEMİR, B.ARMAGAN and M.S. ÇELİK</td>
<td>TURKEY</td>
</tr>
</tbody>
</table>
Modelling Of Izmir Metropolitan Cigli Wastewater Treatment Plant
Elif Ceyda Torcu and Celal F. Gökcay – TURKEY ................................................................. 185

The Relation Between Surface Active Agent And Shear Strength In Stability Of Filter Cake Slopes
Birgül Benli GÖNÜL, Özgül ÖZCAN – TURKEY ...................................................................... 195

Seasonal Storage Of Reclaimed Wastewater In Tunisia: A Means Of Upgrading Microbiological Quality
M. TRAD RAIS, D. XANTHOULIS and N. GARDIN- TUNISIE – BELGIQUE ................................. 201

Determination Of Sludge Quantities Originated From Industrial Wastewater Treatment Plants In Istanbul
C. Kmacı, O. K. Yavuz, O. Tünay and I. Kabdaşlı – TURKEY .............................................. 207

Using Reclaimed Municipal Wastewater For Irrigation
Mehmet Emin AYDIN and Kemal GÜR – TURKEY ................................................................. 213

SESSION 4: ATMOSPHERIC, METEOROLOGICAL AND HYDROLOGIC IMPACTS

Multisite Kalman Filtering Application To Turkish Precipitation Records
Zekai ŞEN1 and Abdullatif M. LATIF2 – TURKEY - LIBYA3 .......................................................... 221

Means Of Widening Of Hydraulic Resources In Algeria
Mlle Ait Mouhoub DJAZIRA1, M. Kettab AHMED2, M. Bobée BERNARD3 and M. Larbes CHREF,
ALGERIA1 – CANADA2 ........................................................................................................... 233

Air, Sea - Land Interactions: Climatological Effects On Saharan Dust, Emiliana Huxleyi Blooms In Mediterranean
A.S. SÖGÜT, Z. ASLAN, D. OKÇU and A. TOKGÖZLÜ – TURKEY ................................................ 243

Dam Building And Water Harvesting In Ancient Iran
Ammar Rafiee EMAM and Masomeh RAFIGI – IRAN .............................................................. 249

Assessment Of Climate Change Impacts On Water Resources Of The Kura River Basin Water Resources
Mirzakhan R. MANSIMOVA – AZERBAIJAN ............................................................................. 255

Retrieving Weather Information From The Internet With Pre-Determined Personal Schedule
Yilmaz KILIÇASLAN, Nursen SUÇSUZ, H. Erol AKATA – TURKEY ...................................... 261

A New Graphical Approach Between Solar Irradiation Variables And Drought
Ahmet DURAN ŞAHIN AND Sevinç SIRDAS - TURKEY ......................................................... 267

Palmer Drought Severity Index of Turkish Republic of Northern Cyprus.
Ali GÜNAYAKTI And Bertuğ AKINTÜĞ - TURKISH REPUBLIC OF NORTHERN CYPRUS .......... 273

Dynamics Of Ionic Composition And Acidic Properties Of Atmospheric Precipitation Of
The Kazan Area Region (Tatarstan)
Yakovleva O.G. - Latypova V.Z. - Zhdanova G.N. TATARSTAN ............................................. 283

SESSION 5: COASTAL ENVIRONMENTAL MANAGEMENT – IMPACTS OF TOURISM
AND OTHERLAND USE

Integrated Coastal Management In The Mediterranean, The Priority Areas And Prospects For Contribution
By A Euro-Mediterranean Network
Erdal ÖZHAN – TURKEY ........................................................................................................... 289
Cultural And Industrial Landscapes Evaluation In North - Eastern Estonia
Aarne LUUD, Valdo LIBLIK and Mait SEPP – ESTONIA ......................................................... 301

Biotope Mapping In Coastal Planning And The Case Of Çukurova Delta Biosphere Reserve Planning
Türkerı ALTAN, Sabine TISCHEW - TURKEY, 2 - GERMANY .............................................. 305

Synthesize Of Polymeric Coating Materials Having High Anticorrosion And Adhesion Properties In Aggressive Sea-Water Conditions And Their Investigation
Refika KURBANLI, Ramazan MIRZAOGLU, Nejdet SEN, Beniz GÜNDÜZ, Semahat KÜÇÜKKOLBASI – TURKEY ................................................................. 317

Faecal Pollution In The Fluvial Beach Of The Alharabe River In Moratalla, Murcia, Spain
Ruiz De Lope Y ANTÓN1, C. Serrano HERNÁNDEZ2, F. Rimblas CORREDOR2, E. Sanz NAVARRE2,
J Gómez CAMPOY2, E. SPAIN – MÉXICO ............................................................... 321

The Impact Of Tourism Development On The Cultural Environment Of The Petra Region, Jordan
Khairieh ‘AMR - JORDAN ............................................................................................... 325

Influence Of The Offshore Oil Production To Caspian Environment
Ilham IBRAHIMOV – AZERBAIJAN ........................................................................ 333

The Coastline Changes Of The Manavgat Delta On The Mediterranean Sea Coast Of Turkey:
Their Engineering And Environmental Effects
H. YILMAZ BAL and Alican KOP - TURKEY ................................................................. 337

Impacts Of Tourism On The Coastal City Of Girne In Turkish Republic Of Northern Cyprus
Beser OKTAY - TURKISH REPUBLIC OF NORTHERN CYPRUS ................................. 345

A Case Study Upon The Microbiological Pollution Of Sea Waters Of Some Beaches On
The North-Eastern Coast Of The Mediterranean Sea, In The Southern Part Of Türkiye
Kemal GUR, Gulnare AHMETLI, Senar OZCAN, Zehra YILMAZ - TURKEY ............... 355

Environmental Problems Associated With Turkish Tourism, Ecotourism As A Solution
To Sustainability And Alternative Types Applied
Ige Pirnar TAVMERGEN and Pınar Özdemir MERİÇ – TURKEY ........................................ 359

The Environmental Problems Of Coastal Aquaculture Production Activities
Erdal GÜRYAY, Alper INCE, Ercan SINAY - TURKISH REPUBLIC OF NORTHERN CYPRUS .... 369

Model For Prognosis Of The Caspian Sea Level
Ramiz R.MAMEDOV – AZERBAIJAN ........................................................................ 379

Environmental Protection In Ports
Violeta POPESCU - Kunsel Özel IZET-ÜNSALAN – ROMANIA ........................................ 385

An Analysis of the Environmental and Economical Impacts of the Quarries: Implications for tourism and environment in Turkish Republic of Northern Cyprus” (TRNC)
Hüseyin ÖZDESER , Olgun ÇİÇEK – TURKISH REPUBLIC OF NORTHERN CYPRUS .......... 389

SESSION 6: FISHERIES AND MARINE POLLUTION

A Case Study On Determination Of Coastal Land-Use In Çeşme-Karaburun Peninsula
Sibel YİĞİTER, Ümit ERDEM, Ayşenur SARIKAYA, Özlem DURUSU, Nurdan CANER and Selda AĞKÜN – TURKEY .......................................................... 393
Changes In The Marine Environment Of Izmir Bay, Eastern Aegean, Turkey, 1996-2001
F. KÜŞÜKSEZGIN, A. KONTAS, O. ALTAY AND E. ULUTURHAN - TURKEY .................................................. 399

Demersal Fisheries Resources Of The Bay Of Magosa, The Turkish Republic Of Northern Cyprus
Bülent CIHANGIR, Hüseyin A. BENLI, E. Mümtaz TIRASIN, Murat KAYA and Aydin ÜNLÜOĞLU - TURKEY .................................................. 409

The Fisheries Of Atlantic Bonito (Sarda Sarda Bloch, 1793) During 2000-2001 Fishing Season
Celal ATEŞ and Abdullah E. KAHRAMAN - TURKEY .................................................. 417

Sea Snails On The Florya & Ambarli Seashore Of The Marmara Sea And Determination Of The Levels Of
Zn, Pb, Cu, Cd, As, Escherichia Coli, Faecal Coliform And Salmonella Spp.
Gülşen ALTUG, Nihal GÜLER - TURKIYE .................................................. 423

Marine Aquaculture In Turkey
Devrim MEMIŞ and Ertan ERCAN - TURKEY .................................................. 427

Investigation Of Vegetation And Soil Relationship On Seyhan Delta (Adana-Turkey) Coastal Dunes
Ahmet SERTESER - TURKEY .................................................. 429

Investigations On The Fishery Of Atlantic Little Tunny (euthynus alletterus raf, 1810)
Of The Northeastern Mediterranean Sea
Abdullah E. KAHRAMAN, İşık K. ORAY, Celal ATEŞ - TURKEY .................................................. 439

SESSION 7: PHYSIOLOGIC, SOCIOLoGIC AND LEGISLATIVE ASPECTS OF THE ENVIRONMENTAL PROTECTION

Biotechnology And Environmental Law: Gmo And Biosafety
Nühet TÜRÇUT - TURKEY .................................................. 443

The Evolution And International Acceptance Of The Precautionary Principle
Jon M. Van DYKE - USA .................................................. 457

An European Regulation About Olive Mill Industry Wastes
U. TOMATI 1, V. ZITO, A. SANDOVAR, P. GATON, M. RUIZ - ITALY - SPAIN .................................................. 471

Civil Liability For Oil Pollution Damage In The Mediterranean Region (A Turkish Viewpoint)
Huriye KUBILAY, Mustafa KUBILAY, Ecehan YEŞİLOVA - TURKEY .................................................. 477

Treatment Of The Contaminated Soils And Waters With Mining Residuals In The Surroundings
Of The National Park Of Doñana: Legislative Aspects
A P FERNÁNDEZ-GETINO, F GUERRERO, J M GASCÓ - SPAIN .................................................. 489

Impacts Of Attitudes On Responsible Environmental Behaviour: The Case Of Lake Burdur In Turkey
Aytül KASAPOĞLU - TURKEY .................................................. 493

Media And Environmentalist Social Behavior
Ibrahim ÖZEJDER, Hüseyin GÜRŞAN - TURKISH REPUBLIC OF NORTHERN CYPRUS .................................................. 499

The Environmental Impact Of Uncontrolled Urbanization And Agricultural Applications In The Goksu
Delta Region Located On The Nort-Eastern Coast Of Mediterranean Sea, In The Southern Part Of Turkey
Kemal GUR, Senar OZCAN and Zehra YILMAZ - TURKEY .................................................. 505
Volume II

SESSION 8: INNOVATIVE TECHNOLOGY

Deficits On The Ability To Organise May Cause Health Consequences Associated With Environmental Disasters
Walter KOFLER - AUSTRIA ......................................................... 513

The Effects Of Preliminary Acidic And Basic And Then Thermal Basic Pretreatment To Increase Water Solubility
Of Grapefruit Peel
F. TANER and I. ARDIÇ - TURKEY ........................................... 521

Csed: A Tool For Sustainable Management Of The Mediterranean Coastal Areas
Gabriele ZANETTO, Pier F. GHETTI, Carlo CARRARO, Antonio MARCOMINI, Paola MINOIA, Ignazio
MUSU, Emanuela T. SEMI - ITALY ............................................ 527

Electromagnetic Hydrocyclone Filters Design And Application In Textile Industry
Erkan IMAL, Parviz ALI-ZADA and Ferhat KARACA, TURKEY – AZERBAIJAN ..................... 533

Production Of Fire Resistance Composite Materials From Chlorinated Sun-Flower Oil Acid Waste And
Epoxide Resins
Gülnare AHMETLI, Kemal GÜR, Zafer YAZICIĞIL, Ahmet KOÇAK - TURKEY ...................... 539

Assessement On Stability Of Triple-Layer Space Grids
Georgeta Maria MÂNDRESCU, KUNSEL -ÖZEL İZET-ÜNSALAN – ROMANIA .......................... 543

Cress Test In Different Water Mediums
B. ÖVEZ, M. YÜKSEL, M. SAGLAM, S. ÖZGEN, Y. ALP, H. AZAK - TURKEY ......................... 547

On An Experimental Investigation Of An Open-Cycle Desiccant Cooling System
Meida Ö. ÇARPINLIOĞLU, Muratza YILDIRIM and RECEP YUMRUTAS – TURKEY ................ 551

A Query System To Retrieve Weather Information From The Internet Via Mobile Phones
Yılmaz KILIÇASLAN – TURKEY .................................................... 555

The Technological Development Organo-Mineral Fertilizers Obtained From Low Rank Lignites
Refika KURBANLI, Ramazan MİRZAĞLI, Erol PEHLİVAN, Gülnare AHMETLI, Renan ŞEKER,
Sultan KURBANLI - TURKEY .................................................... 561

Esas (Environmental Sensitive Areas To Desertification) Model: Supplementary Indicators
Accounting For Particular Environmental Conditions Of Southern Italy
Gaetano LADISA, Mladen TODOROVIC, Giuliana TRISORIO LIUZZI – ITALY .......................... 567

The High Rate Ponds Technology To Increase Acceptance Of Lagoons System In Developing Countries
El Hamouri BOUCHAIB AND El Hafiane FATIHA – MOROCCO ........................................ 579

Convergence And Alternative States In Sub-Tropical Dune Forest Assemblages
R. J. Van AARDE, T.D. WASSENAAR & S.M. FERREIRA - SOUTH AFRICA ........................... 585
SESSION 9: MODELING, GIS APPLICATION AND REMOTE SENSING SYSTEM FOR ENVIRONMENTAL EVALUATION

New Improvements In The Bivariate Landslide Hazard Assessment Using Geographical Information Systems: Mehmet Lütfi SÜZEN and Vedat DOYURAN - TURKEY ................................................................. 597

Flood 3.0: A User Friendly Personal Computer Package For Flood And Drought Frequency Analyses Jose A. RAYNAL – VILLASENOR - MEXICO .................................................................................. 607

Using Geostatistics, Finite Element And Risk Analysis In Environmental Resources Estimation Skënder OSMANI and Riza ALETTI - ALBANIA .......................................................... 613

Random Walk Model To Simulate Solute Heterogeneity Ronny BERNDTSSON, Magnus PERSSON, and Pernilla ÖHRSRÖM – SWEDEN .................................................................. 621

Implementation Of Geographical Information System On Development Of The Environmental Emergency Response Plan For Marmara Region Serkan GİRGIN, Kahraman ÜNLÜ, Erdinç TASEL, Burcu Tokmak CANGIR, Emre TOKCAER, Öznur OGUZ, Filiz B. DILEK and Ülkü YEŞİL – TURKEY ........................................ 627

The Mediterranean Basin: Vegetation Cycles From Remotely - Sensed IMAGERY Silvio GRIGUOLO – ITALY ........................................................................................................... 635

A GIS-Based Multicriteria Decision Analysis Approach To Prevent Soil Degradation C. MORA, D. MENOZZI, C. GARDI, N. DALL’OLIO - ITALY ........................................................................ 641

Analytical Solution Of Saint Venant Equations By Using Laplace Transform L. BENAYADA, A. KETTAB and B. BEKHTI - ALGERIA ........................................................................... 651

Comparison Of Different Regression Models For Prediction Of Transmitted Light Intensity Depth (Tlid) Values In The Porsuk Dam Lake Berna YAZICI, Fatma BILGE, Tuncay DOGEROGLU, Can AYDAY - TURKEY ........................................................................ 657

A Landslide Extraction Scheme For Landslide Hazard Assessment Using Satellite Image Components Mehmet Lütfi SÜZEN and Ertan Kadir YEŞİNLİÇARAC – TURKEY ....................................................... 665

The Place Of GIS Supported By GPS And Remote Sensing In Environmental Visioning Projects Özgen ÇORUMLUOGLU and Mehmet Emin AYDIN – TURKEY ........................................................................... 675

Statistics And Gis Applications To Evaluate Air Pollutants Over Istanbul City Omar ALAGHA, Ferhat KARACA and Bertan BAŞAK – TURKEY ........................................................................ 681

Use Of Computers For Environmental Planning Erdem UÇAR, Yılmaz KILIÇASLAN, H. EROL AKATA - TURKEY ........................................................................................................... 685

SESSION 10: ENVIRONMENTAL EFFECTS OF NATURAL DISASTERS

<table>
<thead>
<tr>
<th>Title</th>
<th>Author(s)</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preserving Water Quality And Improving Wastewater In Japan</td>
<td>Nobuo KUMAMOTO - JAPAN</td>
<td></td>
</tr>
<tr>
<td>Earthquake Zones Can Be Used As Natural Resources: Turkey</td>
<td>İlyas YILMAZER, Özgür YILMAZER - TURKEY</td>
<td></td>
</tr>
<tr>
<td>Assessment Of Disaster Emergency Plans To Minimize Environmental Risks Of Disasters</td>
<td>Öznur OĞUZ, Celal F. GÖKÇAY, Gülerman SÜRÜÇÜ and Ülkü YETİS, - TURKEY</td>
<td></td>
</tr>
<tr>
<td>Justinean Approach To Mitigate Flood Disaster: Tarsus-Turkey</td>
<td>İlyas YILMAZER, Sedat TÜRKMEN, ÖZGÜR YILMAZER - TURKEY</td>
<td></td>
</tr>
<tr>
<td>Beach Erosion Study At Altinova</td>
<td>Gündüz GÜRHan and Sezgi ADALIOĞLU - TURKEY</td>
<td></td>
</tr>
<tr>
<td>Estimation Of Consequent Failure Based On The Seismic Strength At Natural Slopes</td>
<td>Tevfik ISMAILOV - TURKEY</td>
<td></td>
</tr>
<tr>
<td>SESSION 11: ECONOMIC IMPACT OF ENVIRONMENTAL CHANGES</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Economic Valuation Of Nature Reserves In Hungary</td>
<td>Sandor KEREKES - HUNGARY</td>
<td></td>
</tr>
<tr>
<td>Marketing Solutions For Water Shortages</td>
<td>Hüseyin GÖKÇEKUŞ and Ahmet ERTUGAN - TURKISH REPUBLIC OF NORTHERN CYPRUS</td>
<td></td>
</tr>
<tr>
<td>How To Model And Solve A Large-Scale Landslide Problem: A Case Study, Turkey</td>
<td>İlyas YILMAZER and Özgür YILMAZER - TURKEY</td>
<td></td>
</tr>
<tr>
<td>Economic And Environmental Impact Due To An Ecological Disaster Near To A Reservation Of The Biosphere</td>
<td>A P FERNANDEZ-GETINO, J M GASCÓ, F GUERRERO - SPAIN</td>
<td></td>
</tr>
<tr>
<td>Theoretic Principles For The Implementation Of An Environment And Business Friendly Waste Management System (Paper Packaging Waste)</td>
<td>Sandor KEREKES - HUNGARY</td>
<td></td>
</tr>
<tr>
<td>Development Economic Policy And Soil Degradation In Albania</td>
<td>Fioreta LULI - ALBANIA</td>
<td></td>
</tr>
<tr>
<td>How To Rehabilitate A Landslide: Sinop-Turkey</td>
<td>İlyas YILMAZER and Özgür YILMAZER - TURKEY</td>
<td></td>
</tr>
<tr>
<td>Evaluations Of Environmental Problems On The Small Island Developing Countries (Sides) A Case Study: Cyprus</td>
<td>Ugur H. CAN, and Erdal GÜRYAY - TURKEY, - TURKISH REPUBLIC OF NORTHERN CYPRUS</td>
<td></td>
</tr>
<tr>
<td>Lake Avlan And Its Influences On Ecological Balance And Socio-Economic Status Of Elmali County</td>
<td>Ibrahim BAKTIR and Mustafa SARI - TURKEY</td>
<td></td>
</tr>
<tr>
<td>The Contribution Of The Environment To The Turkish Republic Of Northern Cyprus Economy</td>
<td>Okan ŞAFAKLI and Hüseyin ÖZDEŞER - TURKISH REPUBLIC OF NORTHERN CYPRUS</td>
<td></td>
</tr>
<tr>
<td>Is There Trade-Off Between Environment And Foreign Trade?</td>
<td>Dilek SEYİMEN - TURKEY</td>
<td></td>
</tr>
</tbody>
</table>
SESSION 12: ENVIRONMENTAL AWARENESS AND EDUCATION

Environmental Education And Awareness: A Contribution Towards Mediterranean Area Protection In The Third Millenium
Bachir RAISSOUNI - MOROCCO ...................................................... 839

Environmental Awareness Development Through Education
Azra JAGANJAC, Sulejman REDZIC - BOSNIA – HERZEGOVINA ...................................................... 845

An Empirical Evaluation Of Environmentally Conscious Business Practices In Turkey
Hilmi YÜKSEL - TURKEY ............................................ 849

The Education Of Environmental Engineering In Turkey And Its Future
Mustafa ÖZYURT And Halil KUMBUR - TURKEY ........................................ 853

Sustainable Architecture In Mediterranean Region
Seving KURT - TURKISH REPUBLIC OF NORTHERN CYPRUS ........................................ 859

Drought In Sistan And Baluchestan Province Of Iran And The Death Of Hamoon Lake
G. R. LASHKARIPOUR - IRAN ............................................. 869

Proposal for a Mediterranean School Network for Environmental Education
Donatella TOMASI – ITALY .............................................. 873

SESSION 13: MEDITERRANEAN ECOSYSTEM

Diatoms In Oligotrophic Versus Eutrophic Culture

Bottom Sediments Of Aquatic Ecosystems As An Indicator Of Anthropogenic Pollution In Urban Environment
Natalia IGNATYEVA, Sergey KONDRATYEV, Lyudmila YEFREMOVAY & Galina ALYABINA – RUSSIA ...................................................... 883

Transportation Of Matter By Efrenk Stream To Mediterranean Sea
Fadeime TANER, Oktay METIN and Ilker ARDIC – TURKEY ...................................................... 889

Sequence Of Three Different Ecosystems In The Mediterranean Region
A P FERNÁNDEZ-GETINO, J M GASCÓ, F GUERRERO – SPAIN ...................................................... 895

Determination Of The Distribution Of Wild Olives In The Mediterranean Region And Their Conservation
Salih ÜLER and Ibrahim BAKTIR – TURKEY ...................................................... 899

Ecology – Parameters Of Quality In Una Sana Canton
Vildana ALIBABIC, Refik SAHINOVIC, Azra BECIRAJ, Halid MERDANIC and Adnan CEHASIC – BOSNIA – HERZEGOVINA ...................................................... 903
Actual Situation Of The Plankton (Phytoplankton And Copepods) Of The North Lake Of Tunis:
Signs Of Improvement Of Ecosystem
N. Trabelsi-Annabi H. AYADI, M. S.Romdhane M.N. Daly YAHIA, N. Ben Maiz E.B TRABELSI - TUNISIA 909

The Lessepsien Migrating Marine Plant Species, Which Grows Rapidly In East Mediterranean
Barış AKÇALI and Şükrən CİRK - TURKEY ................................................................. 913

Biomass Evolution Of The Seagrass Cymodocea Nodosas (Ucria) Ascherson In The Gulf Of Tunis
Abdessalem SHILI, El Bahri TRABELSI, Naceur Ben Maiz - TUNISIA ........................................... 921

Processing Of The Information Used In Systems Of The Oil And Gas Extraction Industry
Regions Ecological Control
Ramiz M. MIRSAŁIIMOVA, Vagif A. ABBASOVA, Sabina Y.ABDULLAYEVA, Telman A. HASANOVA
And Nouchbala H. RZAYEV - AZERBAIJAN ........................................................................... 927

The Chikly Island, A Specially Protected Archaeological And Ecological Site In The Middle Of The
North Lake Of Tunis (North Tunisia) After Its Restoration And Development.
El Bahri TRABELSI, Abdessalem SHILI, Nelia TRABELSI-ANNABI, Naceur Ben MAİZ - TUNISIA ............ 931

Zooplankton Of The Western Mediterranean Region Of Libya
Hadi ABUSHAGUR, Mohammed HAMZA and Magda ALWALEEED – LIBYA ....................................... 935

Stakeholder Analysis For Sultan Marshes Ecosystem: A Fuzzy Cognitive Mapping Approach For
Conservation Of Ecosystems
Fıltu DADASE and Uygar ÖZESMI - TURKEY ........................................................................... 943

Some Current Threats to the Conservation of Mediterranean Lagoons as Ecosystems.
Paolette BREBER, Lucrezia CILENTI, Tommaso SCIROCCO and Antonella SPECCHIULEI – ITALY ............ 953

Growth Of Forest Plantations on Former Training Areas Of Soviet Military in Lithuania
Kestutis ARMOLAITIS and Remigijus OZOLINCIUS – LITHUANIA .................................................. 957

SESSION 14: RENEWABLE ENERGY SOURCES

Thermal Waters Along The North Anatolian Fault Zone (Nafz): Geochemistry And Geothermometry Applications
Jülide YAPMIŞ, Nilgün GÜLEÇ, Nurkan KARAHANOĞLU - TURKEY .................................................. 961

Mechanism Of Secondary Type Block Toppling Induced By Physical Weathering In Ilhara Valley, Turkey
A. BINAL and K.E. KASAPOĞLU - TURKEY .................................................................................. 967

Modelling Of The Monthly Solar Data In Algeria
Fatih Youcef ETTOUMI, Abd-El-Hamid ADANE, and Henri SAUVAGEOT2 – ALGÉRIE2, FRANCE2 ...... 977

How To Produce More Energy Through Pipeline System
İlyas YILMAZER, Yasemin LEVENTELİ, Aıziz ERTUğÇ - TURKEY .................................................... 981

The Wind Energy Potential Of Turkey
Ömer DEPERLOĞLU, Eyüp SABAH - TURKEY ............................................................................... 989

Annual Performance Of Ground Coupled Space Cooling Systems With Underground Thermal Energy Storeages
Recep YUMRUTAŞ and Mazhar ÜNSAL - TURKEY ........................................................................ 997

Hydrogen From Solar Energy To Reduce Air Pollution And Improve The Economy In The Mediterranean Region
Haldun ABDULLAH, Murat YILDIZ, Nükhet SAZAK - TURKEY ....................................................... 1005
Design Of A Prototype Solar Powered Tricycle Suitable For Commuting In Mediterranean Countries
Ron FRENCH, Osman TAYLAN, Kamil DIMILILER - TURKISH REPUBLIC OF NORTHERN CYPRUS...1009

Secondary Energy In A Water Supply Project: Ankara -Turkey
İlyas YILMAZER, Tolga ÇAN, Öğuz YILMAZER and Tamer Yigit DUMAN – TURKEY ...................... 1015

Simulation Of Wind In Algeria
Fatih Youcef ETTOUMI, Abd-El-Hamid ADANE and Henri SAUVAGEOT - ALGÉRIE - FRANCE ...... 1021

Comparison Of Wind Energy Potential Of Northern Cyprus At Various Locations

Simulation Of Providing The Electric Need Of Residence By The Use Of The Wind Energy
H.AHMET AKDENIZ and Faruk DURMAZ - TURKEY ................................................................. 1033

The Role Of The Incineration And Landfilling With Energy Recovery Of National Energy Supply In Turkey
Müfide BANAR - TURKEY ........................................................................................................ 1041

The Solution Of Some Problems Of Electrophysics And Power Engineering With Using The Influence
Of Strong Electric Fields And Gas Discharges
M. HASHIMOVL, K. B. GOURBANOV, R. N. MEHDI AZADEH and NAYIR - AZERBAIJAN .......................... 1047

The Research About Evolution Of Nitrogen Oxides Of Smoke Hall Gases By A New Method
Asude Ateş KOCACIK, Mirali ALOSAM, Bülent SENGÖRÜ, Berna KIRIL, Meral EVCİ – TURKEY ...... 1053

Volume III

SESSION 15: SOLID AND HAZARDOUS WASTE MANAGEMENT

Solid Waste Landfill Site Selection - A Case Study
Ülkü YETIŞ, Filiz B. DILEK, Esra TARLAN, AND Merih KERESTECIOGLU - TURKEY ...................... 1057

Use Of Waste Sludge To Produce A Light Weight Aggregate
Mehmet OKAYGÜN, Tahir ÇELIK and Hüseyin GÖKÇEKUŞ - TURKISH REPUBLIC OF NORTHERN CYPRUS ................................................................. 1065

Erosion And Nutrient Depletion-Related Degradation In Mediterranean-Type Soils Of Pakistan:
Disparity Between Rainfed And Irrigated Regions
A. RASHID and M. SHAHID - PAKISTAN .......................................................................................... 1073

Finance And Cost Of Collection Service Of Municipal Solid Waste In Istanbul
Doğan KARADAĞ and Süleyman ŞAKAR – TURKEY ........................................................................ 1083

Recycling Policy On The Bulgarian Black Sea Coast The Case Of Varna Municipality
Plamena BORISOVA – BULGARIA ........................................................................................................ 1089

Geological – Geotechnical Assessments In Waste Material Storage Control At Eskisehir – Turkey Region
Muammer TÜÑ, Hakan A. NEFESİOĞLU, Süheyla YEREL and Ayşe DAĞLIYAR - TURKEY .............. 1093

Heavy Metal Pollutants In Metal Finishing Sludge Wastes
Cemile YERLİKAYA and Hasançan OKUTAN – TURKEY ............................................................... 1097

From ‘Waste Disposal’ to ‘Resource Management’ In Cyprus
Peter CANT-SALKOWSKY - TURKISH REPUBLIC OF NORTHERN CYPRUS ................. 1101
Recovery Plan Of The Areas Affected By The Spilled Mining Sludges In The Basin Of The Guadianamar River In Spain
J. M. GASCO, A. P. FERNANDEZ-GETINO, F. GUERRERO – SPAIN .................................................. 1109

Ozone Pretreatment Increase The Biodegradability Of Polyethylene Glycol (Peg8000)
F. DERMOUCHE – ALGERIA .......................................................... 1113

Pilot Plant Treatability Study Of High-Strength Leachates
M. EL-FADEL, W. CHAHINE, E. BOU-ZEID AND B. ALAYLI – LEBANON ........................................ 1121

“Solid Waste Management In Hotel Business”
Işıl ÖZGEN and Olgun ÇİÇEK – TURKEY .............................................. 1127

An Environmental Catastrophe: CMC Debris In Gemikonaği
Betül ATASAYAN – TURKISH REPUBLIC OF NORTHERN CYPRUS .............................................. 1134

Inventory Of Stockpiles And Industrial Waste Situated In The Mines And Dressing Plants Areas In Albania
Genc DEMI – TIRANA .......................................................... 1143

SESSION 16: ENVIRONMENTAL HEALTH ASPECT

Genotoxicity Of Composts From Different Origin
C. DE SIMONE, U. TOMATI, E. GALLI, M. BELARDINELLI – ITALIA .............................................. 1153

Ways Of Reduction Of NOx Emissions By Marine Diesel Engine Exhaust Gases
Deniz ÜNSALAN, Ata ATUN – TURKISH REPUBLIC OF NORTHERN CYPRUS ..................................... 1157

SESSION 17: INDUSTRIAL WATER AND WASTE MANAGEMENT

Industrial Wastewater: Hazardous Effluent Or Water Resource (A Case Study From The Jordan Yeast Company)
T. M. ABU-SHARAR – JORDAN .......................................................... 1161

Cu (II) And Zn (II) Uptakes In An Activated Sludge Process
Tülay A. ÖZBELGE, H. Onder ÖZBELGE and Murat TURSUN – TURKEY ............................................. 1181

Composition Of Hospital Wastewaters
Mehmet Emin AYDIN and Sezen SARI – TURKEY ................................................................. 1191

Wastewater Management Strategy In Sivas Organized Industrial Estate (Soie)
Fehimnan ÇINER and Süreyya Meric PAGANO – TURKEY .............................................................. 1199

Ozonation Of Some Commercial Dyes In Aqueous Medium
Emel YILDIZ and Hamit BOZTEPE – TURKEY ................................................................. 1209

Utilization Of Porous Minerals In The Abatement Of Dyes In Textile Wastewater
O. OZDEMIR, I. BENTLI, B. ERSOY and E. SABAH – TURKEY ...................................................... 1213

Design And Applications emh Filter – Separators To Prevent Environmental Damages In Textile Industry
Parviz ALI-ZADA, Feyzullah VARDARLI, Fahreddin MAMEDOV and Hikmet KULIEV-
TURKEY – TURKISH REPUBLIC OF NORTHERN CYPRUS – AZERBAIJAN ........................................ 1221
Design Of A Prototype Solar Powered Tricycle Suitable For Commuting In Mediterranean Countries
Ron FRENCH, Osman TAYLAN, Kamil DIMILILER - TURKISH REPUBLIC OF NORTHERN CYPRUS...1009

Secondary Energy In A Water Supply Project: Ankara -Turkey
Ilyas YILMAZER, Tolga ÇAN, Özgür YILMAZER and Tamer Yiğit DUMAN – TURKEY ......... 1015

Simulation Of Wind In Algeria
Fatih Youcef ETTOUMI, Abd-El-Hamid ADANE and Henri SAUVAGEOT - ALGÉRIE, FRANCE .... 1021

Comparison Of Wind Energy Potential Of Northern Cyprus At Various Locations

Simulation Of Providing The Electric Need Of Residence By The Use Of The Wind Energy
H.AHMET AKDENIZ and Faruk DURMAZ - TURKEY ......................................................... 1033

The Role Of The Incineration And Landfilling With Energy Recovery Of National Energy Supply In Turkey
Müfide BANAR – TURKEY ................................................................................................. 1041

The Solution Of Some Problems Of Electrophysics And Power Engineering With Using The Influence Of Strong Electric Fields And Gas Discharges
M. HASHIMOV, K. B. GOURBANOV, R. N. MEHDIZADEH and NAYIR - AZERBAIJAN .......... 1047

The Research About Evolution Of Nitrogen Oxides Of Smoke Hall Gases By A New Method
Asude Ateş KOCACIK, Mirali ALOSMAN, Bülent SENGÖRÜR, Berna KIRIL, Meral EVCI – TURKEY ... 1053

Volume III

SESSION 15: SOLID AND HAZARDOUS WASTE MANAGEMENT

Solid Waste Landfill Site Selection – A Case Study
Ülkü YETİŞ, Filiz B. DILEK, Esra TARLAN, AND Merih KERESTECIOGLU - TURKEY .................. 1057

Use Of Waste Sludge To Produce A Light Weight Aggregate
Mehmet OKAYGÜN, Tahir ÇELIK and Hüseyin GÖKÇEKUŞ - TURKISH REPUBLIC OF NORTHERN CYPRUS......................................................... 1065

Erosion And Nutrient Depletion-Related Degradation In Mediterranean-Type Soils Of Pakistan:
Disparity Between Rainfed And Irrigated Regions
A. RASHID and M. SHAFIQ - PAKISTAN ............................................................................ 1073

Finance And Cost Of Collection Service Of Municipal Solid Waste In Istanbul
Doğan KARADAĞ and Süleyman ŞAKAR – TURKEY ....................................................... 1083

Recycling Policy On The Bulgarian Black Sea Coast The Case Of Varna Municipality
Plamena BORISOVA – BULGARIA ...................................................................................... 1089

Geological – Geotechnical Assessments In Waste Material Storage Control At Eskischir – Turkey Region
Muammer TÜN, Hakan A. NEFESLOĞLU, Süheyla YEREL and Ayşey Dağlıyar - TURKEY ...... 1093

Heavy Metal Pollutants In Metal Finishing Sludge Wastes
Cemile YERLIKAYA and Hasançak OKUTAN – TURKEY .................................................. 1097

From ‘Waste Disposal’ to ‘Resource Management’ In Cyprus
Peter CANT-SALKOWSKY - TURKISH REPUBLIC OF NORTHERN CYPRUS ................. 1101
Existing Performance And Improvement In The Management Of Wastewater Treatment Plant Of A Metal Finishing Industry
Sema UNAL, Tuncay DOGEROGLU and Serap KARA – TURKEY .......................................................... 1227

SESSION 18: INTEGRATED WATER RESOURCES MANAGEMENT

Coastal Zone And Integrated Land And Water Resources Management
Giovanni BARROCQ – ITALY ........................................................................................................... 1235

Water Management Difficulties With Limited And Contaminated Water Resources
Hüseyin GÖKCEKUŞ, Umut TÜRKER, Seval SÖZEN and Derin ORHON - TURKISH REPUBLIC OF NORTHERN CYPRUS – TURKEY ......................................................................................................................... 1241

Water Resources: Realities And Perspectives
Ahmed KETTAB, ALGERIA ........................................................................................................... 1251

The Role Of Hydrological Information In Environmental Impact Assessment
Christoph J. BLASI – DENMARK .................................................................................................... 1257

Protection And Monitoring Of Water Quality In Slovak Republic
Jozef KRIŠ, SLOVAK REPUBLIC ..................................................................................................... 1267

Assessment And Management Of Marginal Waters In Tunisia
Akissa BAHRI – TUNISIA ................................................................................................................ 1273

The Strengthening Of Water Resources And Protection Of Catchments
Prudence KWIZERA – BURUNDI .................................................................................................... 1283

Watershed Information System As A Dss For Studying And Following Environmental Considerations In Wide Semi Arid Watersheds-Foum Tillich Waterted Case Study In Morocco
M.D. HASNAOUI, N.AQID and D.OUAZAR – MAROCCO ............................................................ 1289

SESSION 19: BIODIVERSITY, ENVIRONMENT AND SUSTAINABLE DEVELOPMENT

Indigenous Technical Knowledge For The Sustainable Land Use Management Of The Mediterranean Basin
Y. BAL, E. AKÇA, U. ALAGÖZ, H.A. KIZILARSLANOĞLU, B. KÖROĞLU, M. SERDEM and
S. KAPUR – TURKEY ..................................................................................................................... 1301

Characteristics And Possibilities For Sustainable Utilization Of Biodiversity Of The Mediterranean Part Of Montenegro
Vladimir STEVANOVIĆ, Ivica RADOVIĆ, Zlatko BULI, Slobodan REGNER, Sreten MANDI – YUGOSLAVIA 1307

Parasite-Problems In Relation to Norwegian Aquaculture: A Threat to Biodiversity?
ARNE SKORPING – NORWAY ......................................................................................................... 1315

Biodiversity, Environment And Sustainable Development
JOSEF SEJÁK - CZECH REPUBLIC .................................................................................................. 1319

Ecological Evaluation Of Biodiversity As An Effective Tool For Sustainable Management Of Mediterranean Ecosystems
Sulejman REDZIC - BOSNIA and HERZEGOVINA ....................................................................... 1323
Environmental Pollution In Izmir Area
Emir HENDEN - TURKEY ........................................... 1335

Thermochemical Pretreatment Of Orange Peel To Convert Watersolubles
F. TANER AND I. ARDIC - TURKEY ................................. 1341

Environmental Pollution In Mediterranean Countries
Hakki ATUN - TURKISH REPUBLIC OF NORTHERN CYPRUS .......... 1345

Fodder Availability In Mesaoria Region
Cem HAMI - TURKISH REPUBLIC OF NORTHERN CYPRUS .......... 1347

SESSION 20: GROUNDWATER RESOURCES MANAGEMENT AND CONTAMINATION

State-Of-The-Art Of Pollution Threats To Groundwater Resources In The Mediterranean Basin
Mamdouh SHAHIN - NETHERLANDS .................................. 1349

What Might Be The Strategy For Phytoremediation Of Contaminated Soil And Water In Mediterranean Region In Adana
Zeynep ZAIMOGLU, Zerrin SOGUT, and Reyan Erdogan KUCUK - TURKEY ........................................ 1361

Determining And Evaluating Of Nitrate Contamination Of The Lower Seyhan Plain In Turkey
Sercan GUL, Hasan OZCAN and Ebru SIREE - TURKEY .................. 1369

Membrane Microfiltration Units For Treatment Effects Of Groundwater Resources In Marmara Region
H. Cengiz YATMAZ, Nihal BEKTAŞ, Buray SADIKLAR and Serdar KARA - TURKEY ......................................... 1373

Effects Of An Agroforestry System Of Poplar And Agricultural Crops On Arthropod Diversity In Duze
Suleyman AKBULUT and Akif KETEN - TURKEY ......................... 1379

Role Of In Situ Conservation Of Biodiversity Within Agro-Ecosystems
A. BAMMOUN, IPGRI-CWANA and Inra RABAT - MOROCCO ............ 1387

Sustainable Development Of The Cement Industry And Blended Cements To Meet Ecological Challenges
Konstantin SOBOLEV - TURKISH REPUBLIC OF NORTHERN CYPRUS .............. 1393

Sustainable Lefkosa - The Future
Havva SONAY BARUTCU - TURKISH REPUBLIC OF NORTHERN CYPRUS ........... 1401

Analysis Of The Anthropogenic Impact Upon Groundwaters’ Regime Within Azerbaijan Areas
Rauf G. ISRAFILOV - AZERBAIJAN .................................. 1407

Groundwater Flow And Contaminant Transport Modelling For Mezitli-Mersin
Zeynel DEMIREL - TURKEY ........................................ 1413

Underground water Pollution of arid and semi-arid zones in Algeria (Case study of the Souf in the low septentrional Sahara)
CHEBBAH M. BOUKHAROUBA K. and KETTAB A. - ALGER ................. 1417
SESSION 21: WASTEWATER MANAGEMENT IN SENSITIVE COASTAL AREAS

The Role Of Marine Outfalls In A Coastal Waste Water Treatment System – Background And Developments
Carlo AVANZINI, Nicola BAZZURRO, Paolo DOMENICHINI – ITALY .................................................. 1429
Distributions Of Phosphate And Nitrate In The Mediterranean Sea
A.I. KARAFISTAN – TURKEY ................................................................. 1439

Management, Protection, Stabilization And Revegetalization Of Bordering Dunes - Experimental Project
On Beach Of Mahdia - Tunisia
Mohamed Ali TORKI and Mehdi Ben HAJ – TUNISIA .................................................. 1443

A Manmade Coastal Disaster: Blacksea - Turkey
Ilyas YILMAZER, Özgür YILMAZER – TURKEY .................................................. 1451

A Solution To Istanbul’s Heavy-Traffic Problem
Sami GÖREN – TURKEY ................................................................. 1459

Investigation Of Treatment Alternatives For Wastewater Generating From Yachting Activities
Deniz DOLGEN, M. Necdet ALPASLAN – TURKEY .................................................. 1465

The Coastline Changes On The Southeastern Mediterranean Coast Of Turkey
Cavit DEMIRKOL and Yilmaz BAL – TURKEY .................................................. 1473

The Caspian Sea — The Second Dead Sea?
Erden KAZHIBEK – REPUBLIC OF KAZAKHSTAN .................................................. 1479

SESSION 22: TRAFFIC AND NOISE

Deficiency Of Highways In Mass Transportation: Turkish Republic Of Northern Cyprus
Ilyas YILMAZER, Hüseyin GÖKCEKUŞ – TURKEY - TURKISH REPUBLIC OF NORTHERN CYPRUS .1483

Prediction And Management Of Traffic Noise Along Urban Arterials
Khair JADAAN, Saad Abo QUDAIS, Maha Abu HADBA – JORDAN .................................................. 1487

Traffic Equivalent Noise Levels At Signalized Intersections
Saad ABO-QUDAIS, Khair JADAAN, Arwa ALHIARY – JORDAN .................................................. 1491

Noise Pollution Map Of Konya City Centre And Effect Of Factors On Noise Pollution
Şükrü DURSUN, Celalettin ÖZDEMİR, Hakan KARABÖRK and Saim KOÇAK – TURKEY .................................................. 1497

SESSION 23: AIR POLLUTION

On The Effects Of Pollution And Dust On Cloud Development And On Rain Fall
Zev LEVIN, Sabine WURZLER and Yan YIN – ISRAEL .................................................. 1503

Effects Of Topographic Structure Around Konya City On Air Pollution In The Region
Fatma DIDEM SÖLEYİÇİ and Şükrü DURSUN – TURKEY .................................................. 1509

Effect Of Coal Moisture Of Yeniköy-Ağaçlı Coal To Particulate And Co Emissions In A Boiler
Nalan ERDÖL-AYDIN, Y.Volkan ARINCI, Hasancan OKUTAN, Ekrem EKINCI and Ahmet ARISOY – TURKEY .................................................. 1517
Prevention Of The Effect Of Exhaust Gases To The Environment And The Regeneration Of Carbon Dioxide In Motor Vessels
İ. Kudret RODOPMAN, Kayhan ÇINDEMIİR and Özgün Burcu RODOPMAN - TURKEY

Effect Of The Atmospheric Pollution By Fluorine One Plantations
Mezghani IMED, Kallel NADA, Ben Abdallah FERJANI and Boukhris MAKKI - TUNISIA

Modeling Of Air Pollution Data By Using Artificial Intelligence
Ferhat KARACA, Omar ALAGHA, Bertan BASAK AND Ferruh ERTÜRK - TURKEY

Effect Of Air Pollutants On Vegetation In The Region Of Sfax
Elloumi N., Ben Abdallah F., Mezghani I. and Boukhris M, TUNISIA

An Investigation Of Co Contribution To The Air Quality Due To Vehicular Traffic In Istanbul
Y.V. ARINCI, H. ISKENDER, H. OKUTAN - TURKEY

Proposal Of The Establishment Of A National Disaster Research And Management Coordination Agency In The Algerian Government Structure: A Coordinating Body
Djillali BENOUAR - ALGERIA

The Impact Of Brain Drain On Environmental Awareness & Education In The Mediterranean Region
Ghazi S.N.BANIMELHEM - JORDAN

Investigations On The Fishing Methods And Length Distributions Of Swordfish (Xiphias Gladius L, 1758) In The Mediterranean Sea
Tugrul Zahit ALİÇLI, Isik K. ORAY - TURKEY

Print Published: 08/01/20003 Online Published: 07/14/2003

European Union Water Policy—Tasks For Implementing “Water Framework Directive” In Pre-Accession Countries
Seval SÖZEN, Ebru AVCIOGLU, Asli OZABALI, Erdem GÖRGUN, Derin ORHON - TURKEY

Effects Of Freshwater Release To A Marine Bay

Hydrogeological And Hydrochemical Investigation For Below-Sea-Level Quarrying At Cement Raw Material Site (Kocaeli - Darica, Turkey)
Vedat DOYURAN, Nurkan KARAHANOĞLU, Zeki ÇAMUR, Tamer TOPAL, M. L. SÜZEN and Ertan YEŞİLNACAR - TURKEY

Environmental Protection Problems In The Vicinity Of The Zelazny Most Flotation Wastes Depository In Poland
Stanislaw LASOCKI, Janusz ANTONIUK and Jerzy MOŚCICKI - POLAND

Pollution Of Coastal Region Impacted By Acid Mine Drainage In Morphou Bay, Northern Cyprus
Hüseyin GÖKCEKŬŞ1, Sedat KABAŞLI2, İşık KABAŞLI2, Umut TÜRKER1, Olcay TUNAY2, and Tuğba ÖLMEZ2 - TURKISH REPUBLIC OF NORTHERN CYPRUS1 - TURKEY2
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Location</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evolution And Vitality Of Seagrasses In A Mediterranean Lagoon</td>
<td>Lila FERRAT, C. FERNANDEZ, V. PASQUALINI, G. PERGENT, C. PERGENT-MARTINI</td>
<td>FRANCE</td>
<td>1574</td>
</tr>
<tr>
<td>Urban Wastewater Effects On Water Flow And Solute Transport In Soils</td>
<td>Antonio COPPOLA, Alessandro SANTINI, Paolo BOTTI, Sergio VACCA</td>
<td>ITALY</td>
<td>1575</td>
</tr>
<tr>
<td>Biological Removal Of Carbon, Nitrogen, And Phosphorus In A Sequencing Batch Reactor</td>
<td>Beril S. AKIN, Ayşenur UĞURLU</td>
<td>TURKEY</td>
<td>1576</td>
</tr>
<tr>
<td>The Effect Of Nitrate And Different Substrates On Enhanced Biological Phosphorus Removal In Sequencing Batch Reactors</td>
<td>Nevin OZGÜR YAGCI, Rüya TAŞLI, Nazik ARTAN, Derin ORHON</td>
<td>TURKEY</td>
<td>1577</td>
</tr>
<tr>
<td>Conventional Morphological And Functional Evaluation Of The Microbial Populations In A Sequencing Batch Reactor Performing EBPR</td>
<td>Ebru DULEK GÜRGEN, Koray YESILADALI, Süleyman OVEZ, Candan TAMERLER, Nazik ARTAN, Derin ORHON</td>
<td>TURKEY</td>
<td>1578</td>
</tr>
<tr>
<td>Effect Of Starvation On Resuscitation And The Surface Characteristics Of Bacteria</td>
<td>Selim L. SANIN</td>
<td>TURKEY</td>
<td>1579</td>
</tr>
<tr>
<td>Treatability Of 2,4-Dinitrotoluene In Anaerobic/Aerobic Sequential Processes</td>
<td>Delia Teresa SPONZA, Hülya ATALAY</td>
<td>TURKEY</td>
<td>1580</td>
</tr>
<tr>
<td>Use Of Sewage Sludge Compost As The Restoration Agent On The Degraded Soil Of Tatarstan</td>
<td>Svetlana Yurievna SELIVANOVSUKAYA, Venera Zinatovna LANYPOVA, Lyudmila Aleksandrova ARTAMONOVA</td>
<td>RUSSIA</td>
<td>1581</td>
</tr>
<tr>
<td>A Landfarming Application Technique Used As Environmental Remediation For Coal Oil Pollution</td>
<td>Concetta I. GIASI, Annalisa MORELLI</td>
<td>ITALY</td>
<td>1582</td>
</tr>
<tr>
<td>Irrigated Agriculture And Soil Salinization In The Maltese Islands</td>
<td>Sonya J. Vella, Sharlo Camilleri</td>
<td>MALTA</td>
<td>1583</td>
</tr>
<tr>
<td>Application Of Advanced Oxidation Processes To Different Industrial Wastewaters</td>
<td>Işıl Akıncımet BALCI OGLU, Idil Arslan ALATON, Merih ÖTKER, Rüştü BAHR, Nihal BAKAR, Muğan İKİZ</td>
<td>TURKEY</td>
<td>1584</td>
</tr>
<tr>
<td>A Kinetic Study On The Decolorization Of Aqueous Solutions Of Acid Red-151 By Ozonation</td>
<td>Tülay A. ÖZBELGE, Funda EROL, H. Onder ÖZBELGE</td>
<td>TURKEY</td>
<td>1585</td>
</tr>
<tr>
<td>Novel Catalytic Photochemical And Hydrothermal Treatment Processes For Acid Dye Wastewater</td>
<td>Idil ARSLAN-ALATON</td>
<td>TURKEY</td>
<td>1586</td>
</tr>
<tr>
<td>Multiple Use Of Water In Industry—The Textile Industry Case</td>
<td>Ulrich ROTT</td>
<td>GERMANY</td>
<td>1587</td>
</tr>
<tr>
<td>Wastewater Reuse For The Minimization Of Fresh Water Demand In Coastal Areas - Selected Cases From The Textile Finishing Industry</td>
<td>Derin ORHON, Isik KABDASLI, Fatos Germirli BABA ÜNA, Seval SOZEN, Hakan DULKADIROGLU, Serdar DOGRUEL, Ozlem Karahan GUL, Gucuo INSEL</td>
<td>TURKEY</td>
<td>1588</td>
</tr>
<tr>
<td>Application Of Remote Sensing Techniques For Monitoring The Thermal Pollution Of Cooling-Water Discharge From Nuclear Power Plant</td>
<td>Chuqun CHEN, Ping SHI, Qingwen MAO</td>
<td>CHINA</td>
<td>1589</td>
</tr>
</tbody>
</table>
Prediction Of Lagoons' Natural Conditions Using Satellite Data And Gis
Çigdem GOKSEL, Dursun Z. SEKER, Sedat KABDASLI – TURKEY ................................................................. 1590

Environmental Remote Sensing Of The Mediterranean Sea
Vittorio BARALE – ITALY ...................................................................................................................... 1591