

**MESAEP**

**Mediterranean Scientific Association of Environmental Protection**



# **SYMPOSIUM PROGRAM**

**17<sup>th</sup> International Symposium on  
Environmental Pollution and its Impact on Life in the  
Mediterranean Region**

**September 28 to October 1, 2013  
Istanbul - Turkey**



**17<sup>th</sup> International Symposium  
on  
Environmental Pollution  
and its Impact on Life in the Mediterranean Region**

**September 28 to October 1, 2013, Istanbul - Turkey**

**In collaboration with**

Akdeniz University, Antalya - Aristotle University of Thessaloniki - Bogazici University, Istanbul - Esenyurt University, Istanbul - Helmholtz Zentrum, CMA, München - Interdisciplinary Institute for Environmental Research, Milan - Işık University, İstanbul - Istanbul Technical University-Politecnico di Torino, DENER, Torino - University of Belgrade - University of Thessaloniki - University of West Macedonia

**Under the auspices of,**

Akdeniz University - Bogazici University - Esenyurt University - Işık University - Istanbul Technical University

**With the sponsorship and support of,**

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The Executive Committee, the Steering and the National Organizing Committees of the Mediterranean Scientific Association of Environmental Protection (MESAEP) has the pleasure to present a warm invitation to attend the 17th International MESAEP Symposium that will be held in Istanbul, Turkey from September 28<sup>th</sup> to October 1, 2013.

#### PREVIOUS MESAEP SYMPOSIA

Previous symposia were held in Athens, Greece (1981), Crete, Greece (1983), Istanbul, Turkey (1985), Kavala, Greece (1987), Blanes, Spain (1989), Como, Italy (1991), Antibes, France (1993), Rhodes, Greece (1995), Sorrento, Italy (1997), Alicante, Spain (1999), Limassol, Cyprus (2001), Antalya, Turkey (2003), Thessaloniki, Greece (2005), Seville, Spain (2007), Bari, Italy (2009) and Ioannina, Greece (2011).

#### OBJECTIVES

The objectives of the symposium are to provide opportunities for academics, policy makers, regulators, and practitioners in different countries to

- exchange recent results related to the processes of environmental pollution and its effects on public health in the Mediterranean region
- discuss current technological and legal measures to avoid or reduce the degradation of the environment
- present suggestions and recommendations to the regulatory authorities on environmental quality and safety in the Mediterranean Region and its neighboring countries.

#### MAIN SUBJECTS

- Impact of climate change in the Mediterranean region
- Soil pollution and control
- Water pollution and control
- Air quality and pollution
- Biodiversity and ecosystem functions
- Ecotoxicity
- Environment and health
- Waste management
- Renewable energy sources
- Emerging pollutants
- Ecological disasters
- Environmental policy and education

#### SYMPOSIUM LOCATION

Istanbul has been inhabited as early as 3000 BC. In the 7<sup>th</sup> Century BC, Greek colonist Byzas named the city Byzantium after himself. In the 300s, Byzantium became part of the Roman Empire. In 330, the Roman emperor Constantine declared the city as the capital of the entire Roman Empire and renamed it Constantinople which further became the capital of the Byzantine Empire in the 400s. Constantinople was conquered by the Turks in 1453 and was named as the capital of the Ottoman Empire and its name changed to Istanbul. Nowadays, with 15 million population, the megacity Istanbul is the most crowded city of Turkey and the heart of economic and cultural life of the country.

The Symposium will take place at the Elite World Hotel (5\*) located in the Taksim area.

#### ORAL AND POSTER PRESENTATIONS

The program of the symposium will include plenary and keynote lectures, oral and poster and two round tables. Oral and poster contributions are scientifically equivalent in the program. Special focus will be devoted to the brief presentation of posters of original papers in full audience sessions. All presentations (oral and poster) should be in English.

Posters should be affixed in the evening of the day before or in the early morning of the day of the corresponding oral session, and removed in the evening of the presentation day. Selected poster authors will be invited to present briefly (3 min/3-4 slides) their poster content in full audience sessions scheduled. All presentations (oral and posters) should be in English.

#### PAPERS PUBLICATION

Abstracts can be accepted as last-minute submission until the end of August 2013, but not published in the book of Abstracts.



Authors of already presented Abstracts have been notified on the acceptance and on the form of presentation. Poster or oral presentations will be included in the Symposium Programme if at least one of the authors is registered and present at the Symposium.

The book of abstracts will be printed before the Symposium and distributed in digital form to all participants upon registration at the Symposium.

All papers presented at the Symposium will be eligible, upon refereeing, for publication in the peer reviewed international journal FRESNIUS ENVIRONMENTAL BULLETIN (FEB), the official journal of MESAEP.

Authors are requested to submit manuscripts in electronic form and to send them directly as an e-mail attachment to PSP publishing: [parlar@psp-parlar.de](mailto:parlar@psp-parlar.de), not later than December 13, 2013.

For the preparation of manuscripts please refer to [www.psp-parlar.de](http://www.psp-parlar.de). Supplementary information about the papers publication will be also given at the Symposium information desk in Istanbul.

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## Saturday 28<sup>th</sup> of September

12<sup>00</sup> - 18<sup>30</sup> Registration (Elite World Hotel)

18<sup>30</sup> - 19<sup>00</sup> Official Opening Ceremony

19<sup>00</sup> - 19<sup>45</sup> Plenary lecture  
**Prof. Dr.Mehmet Karaca**  
 Global Climate Change and its Regional Reflections: The Eastern Mediterranean and Middle East  
 Rector. Geological Engineering Department and the Eurasia Institute of Earth Sciences.  
 Division of Climate and Marine Sciences. Istanbul Technical University

20<sup>00</sup> Welcome Cocktail

## Sunday 29<sup>th</sup> of September

Conference room A		Conference room B	
9 <sup>00</sup> - 10 <sup>40</sup>	Emerging Pollutants	9 <sup>00</sup> - 10 <sup>30</sup>	Water pollution and control I
10 <sup>40</sup> - 11 <sup>00</sup>	<i>Coffee Break at Poster Room</i>	10 <sup>30</sup> - 11 <sup>00</sup>	<i>Coffee Break at Poster Room</i>
11 <sup>00</sup> - 12 <sup>40</sup>	Waste management I	11 <sup>00</sup> - 12 <sup>40</sup>	Water pollution and control II
12 <sup>45</sup> - 14 <sup>00</sup>	<i>Lunch</i>	12 <sup>45</sup> - 14 <sup>00</sup>	<i>Lunch</i>
14 <sup>00</sup> - 15 <sup>30</sup>	Waste management II	14 <sup>00</sup> - 15 <sup>40</sup>	Water pollution and control III
15 <sup>30</sup> - 16 <sup>00</sup>	<i>Coffee Break at Poster Room</i>	15 <sup>40</sup> - 16 <sup>00</sup>	<i>Coffee Break at Poster Room</i>
16 <sup>00</sup> - 17 <sup>00</sup>	Poster Session I	16 <sup>00</sup> - 17 <sup>00</sup>	Poster Session I
17 <sup>00</sup> - 18 <sup>30</sup>	Renewable energy sources	17 <sup>00</sup> - 18 <sup>30</sup>	Water pollution and control IV

19<sup>30</sup>

MESAEP GENERAL BODY MEETING

### POSTER SESSION I (Galata Hall)

Emerging pollutants, Renewable energy sources, Waste management, Water pollution and control

## Monday 30<sup>th</sup> of September

<u>Conference room A</u>		<u>Conference room B</u>	
9 <sup>00</sup> - 10 <sup>30</sup>	Air quality and pollution I	8 <sup>40</sup> - 10 <sup>40</sup>	Environment and health I
10 <sup>30</sup> - 11 <sup>00</sup>	<i>Coffee Break at Poster Room</i>	10 <sup>40</sup> - 11 <sup>00</sup>	<i>Coffee Break at Poster Room</i>
11 <sup>00</sup> - 12 <sup>30</sup>	Air quality and pollution II	11 <sup>00</sup> - 12 <sup>30</sup>	Environment and health II
12 <sup>30</sup> - 14 <sup>00</sup>	<i>Lunch</i>	12 <sup>30</sup> - 14 <sup>00</sup>	<i>Lunch</i>
14 <sup>00</sup> - 15 <sup>40</sup>	Ecotoxicity	14 <sup>00</sup> - 15 <sup>30</sup>	Impact of climate change in the Mediterranean Region I
15 <sup>40</sup> - 16 <sup>00</sup>	<i>Coffee Break at Poster Room</i>	15 <sup>30</sup> - 16 <sup>00</sup>	<i>Coffee Break at Poster Room</i>
16 <sup>00</sup> - 17 <sup>00</sup>	Poster Session II	16 <sup>00</sup> - 17 <sup>00</sup>	Poster Session II
17 <sup>00</sup> - 18 <sup>00</sup>	Environmental policy and education	17 <sup>00</sup> - 18 <sup>00</sup>	Soil pollution and control I
18 <sup>15</sup> - 19 <sup>30</sup>	Round Table Discussion	18 <sup>15</sup> - 19 <sup>30</sup>	Round Table Discussion
20 <sup>00</sup>	Gala Dinner (optional)		

### Poster Session II

Air quality and pollution, Biodiversity and ecosystem functions, Ecological disasters, Ecotoxicity, Environment and health, Environmental policy and education, Impact of climate change in the Mediterranean Region, Soil pollution and control

## Tuesday 1<sup>st</sup> of October

<u>Conference room A</u>		<u>Conference room B</u>	
9 <sup>00</sup> - 10 <sup>30</sup>	Water pollution and control V	9 <sup>00</sup> - 10 <sup>30</sup>	Impact of climate change in the Mediterranean Region II
10 <sup>30</sup> - 11 <sup>00</sup>	<i>Coffee Break</i>	10 <sup>30</sup> - 11 <sup>00</sup>	<i>Coffee Break</i>
11 <sup>00</sup> - 12 <sup>30</sup>	Biodiversity and ecosystem functions/Ecological disasters/ Air Pollution and control	11 <sup>00</sup> - 12 <sup>40</sup>	Soil pollution and control II
12 <sup>45</sup> - 13 <sup>15</sup>	Conclusions of the Symposium		
13 <sup>15</sup> - 14 <sup>00</sup>	Lunch		
14 <sup>00</sup> - 18 <sup>00</sup>	Excursion (optional)		

Sunday, 29<sup>th</sup> September

**Conference Room A**  
**Session I A: EMERGING POLLUTANTS**

- 9.00 - 9.40 **INVITED SPEAKER**  
**PHARMACEUTICALS IN WATERS: SOURCES, OCCURRENCE AND CHEMICAL ANALYSIS**  
[Biljana Skrbic](#)<sup>1</sup>, [Mira Petrovic](#)<sup>2</sup>, [Damia Barcelo](#)<sup>3</sup>  
<sup>1</sup>University of Novi Sad, Faculty of Technology, Novi Sad, Serbia  
<sup>2</sup>Catalan Institute for Water Research, Girona, Spain  
<sup>3</sup>Spanish Council for Scientific Research, Institute of Environmental Assessment and Water Research, Department of Environmental Chemistry, Barcelona, Spain
- 9.40 - 10.00 **A DETAILED MULTI-COMPARTMENTAL SKIN PENETRATION MODEL COUPLED TO A PHYSIOLOGICALLY BASED PHARMACOKINETIC MODEL FOR ASSESSING EXPOSURE TO ENDOCRINE DISRUPTING CHEMICALS**  
[Denis Andreas Sarigiannis](#)<sup>1</sup>, [Evangelos John Handakas](#)<sup>1</sup>, [Spyros Karakitsios](#)<sup>2</sup>  
<sup>1</sup>Department of Chemical Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece  
<sup>2</sup>Chemical Process and Energy Resources Institute, Centre for Research and Technology Hellas, Thessaloniki, Greece
- 10.00 - 10.20 **ANALYSIS AND FATE OF CHLORINATED PARAFFINS IN THE ENVIRONMENT**  
[Mehmet Coelhan](#)<sup>1</sup>, [Bettina Hilger](#)<sup>2</sup>, [Hermann Fromme](#)<sup>2</sup>, [Wolfgang Völkel](#)<sup>2</sup>  
<sup>1</sup>Technical University of Munich, Freising, Germany  
<sup>2</sup>Bavarian Health and Food Safety Authority, Munich, Germany
- 10.20 - 10.40 **DEGRADATION OF BISPHENOL A BY UV-C PHOTOLYSIS AND PERSULFATE/ UV-C PROCESS: ECOTOXICOLOGICAL ASSESSMENT BY A MULTITROPHIC BATTERY TEST**  
[Tugba Olmez Hanci](#), [Duygu Dursun](#), [Bora Genc](#), [Idil Arslan Alaton](#)  
Department of Environmental Engineering, Istanbul Technical University, Istanbul, Turkey

10.40 - 11.00 Coffee break at Poster Room (Galata Hall)

**Session II A: WASTE MANAGEMENT I**

- 11.00 - 11.40 **INVITED SPEAKER**  
**SUSTAINABLE WASTE MANAGEMENT IN MEGACITIES**  
[Martin Kranert](#)  
Institute for Sanitary Engineering, Water Quality and Solid Waste Management, University Stuttgart, Germany.
- 11.40 - 12.00 **RISK ASSESSMENT OF FOUR UNCONTROLLED LANDFILLS IN GREECE BEFORE AND AFTER THEIR CLOSURE**  
[Georgios Pilidis](#)<sup>1</sup>, [Eleni Tsiroglou](#)<sup>2</sup>, [Evangelos Voudrias](#)<sup>2</sup>, [Ioannis Papaspyros](#)<sup>2</sup>, [Ioannis Zarkadas](#)<sup>1</sup>, [Ioannis Papagiannis](#)<sup>3</sup>, [Dimitrios Alivertis](#)<sup>1</sup>  
<sup>1</sup>Laboratory of Environmental Chemistry and Technology, Department of Biological Applications and Technology, University of Ioannina, Ioannina, Greece  
<sup>2</sup>Laboratory of Solid and Hazardous Waste management, University of Thrace, Department of Environmental Engineering, Xanthi, Greece  
<sup>3</sup>Region of Epirus, Department of Environment and Spatial Planning
- 12.00 - 12.20 **UTILIZATION OF FLY ASH DERIVED THROUGH INDUCT DESULPHURIZATION OF FLUE GASES FROM LIGNITE POWER PLANTS, IN CERAMICS AND CEMENT BASED MATERIALS**  
[Constantinos Angelos Sikalidis](#), [George Nikolaos Bantsis](#)  
Department of Chemical Engineering, Aristotle University, Thessaloniki, Greece

12.20 - 12.40 **URBAN MUNICIPAL WASTE FLOWS IN THE MEDITERRANEAN AREA PHASE 2: MOVING FROM LESS LANDFILLING TO MORE RECYCLING**

[Jean Jacques Dohogne](#)

Association of Cities and Regions for Recycling - Brussels - Belgium

12.45 - 14.00 Lunch

### Session III A: WASTE MANAGEMENT II

14.00 - 14.20 **CHEMICAL TREATMENT OF OLIVE MILL WASTEWATER: ORGANIC MATTER FRACTIONATION**

[Hande Gürsoy Haksevenler<sup>1</sup>](#), [Idil Arslan Alaton<sup>2</sup>](#)

<sup>1</sup>Environmental Institute, TUBITAK MRC, 41470 Gebze, Kocaeli, Turkey

<sup>2</sup>Department of Environmental Engineering, Faculty of Civil Engineering, Istanbul Technical University, 34469 Maslak, Istanbul, Turkey

14.20 - 14.40 **MANAGEMENT STRATEGIES FOR REDUCING THE AMOUNT OF LEACHATE IN TURKEY**

[Izzet Ozturk<sup>1</sup>](#), [Filiz Ozturk<sup>2</sup>](#)

<sup>1</sup>Department of Environmental Engineering, Istanbul Technical University, Istanbul, Turkey

<sup>2</sup>Biosfer Consulting and Engineering Company, Istanbul, Turkey

14.40 - 15.00 **RECYCLING OF STEEL-INDUSTRY WASTE BYPRODUCTS INTO EXTRUDED CLAY BRICKS**

[Vayos G Karayannis](#)

Department of Pollution Control Technologies, Technological Education Institution of West Macedonia

15.00 - 15.20 **EVALUATION OF ULTRASONICATION AND MICROWAVE DISINTEGRATION OF WASTE ACTIVATED SLUDGE**

[Gulsum Emel Zengin](#), [Emel Topuz](#), [Aysegul Unal](#), [Nilay Ucar](#), [Elif Banu Gencsoy](#), [Emine Ubay Cokgor](#)

Department of Env. Eng., Istanbul Technical University, Istanbul, Turkey

15.30 - 16.00 Coffee Break at Poster Room

16.00 - 17.00

### POSTER SESSION I (Galata Hall)

Emerging pollutants, Renewable energy sources, Waste management,  
Water pollution and control





## Session IV A: RENEWABLE ENERGY SOURCES

- 17.00 - 17.20 **THE ROLE OF HYDROGEN IN THE PROMOTION OF LARGE-SCALE RES INTEGRATION IN AEGEAN SEA ISLAND GRIDS**  
[Kosmas A Kavadias](#), [Dimitrios Zafirakis](#), [John K Kaldellis](#)  
Lab of Soft Energy Applications & Environmental Protection, TEI Piraeus, Greece
- 17.20 - 17.40 **EVALUATION FRAMEWORK OF ENERGY AND FUEL SUPPLY CHAINS: A METHODOLOGICAL APPROACH**  
[Christiana Papapostolou](#)<sup>1</sup>, [Wolf Gerrit Früh](#)<sup>2</sup>, [Emilia Kondili](#)<sup>1</sup>, [Ioannis K. Kaldellis](#)<sup>3</sup>  
<sup>1</sup>Optimisation of Production Systems Lab Mech. Eng. Dept., TEI Piraeus Greece  
<sup>2</sup>Sch. of Eng. and Ph. Sciences, Heriot-Watt University, Edinburgh, UK  
<sup>3</sup>Lab of Soft Energy Applications & Environmental Protection Mechanical Eng. Dept., TEI Piraeus, Greece
- 17.40 - 18.00 **EFFECT OF SLUDGE MANAGEMENT STRATEGIES ON MINIMIZING GLOBAL WARMING POTENTIAL AT A MUNICIPAL WASTEWATER TREATMENT PLANT OF A MEGACITY**  
[Çiğdem Yangın Gömeç](#)<sup>1</sup>, [Hüseyin Güven](#)<sup>1</sup>, [Özgür Özdemir](#)<sup>2</sup>, [Izzet Öztürk](#)<sup>1</sup>  
<sup>1</sup>Department of Environmental Engineering, Istanbul Technical University, Turkey  
<sup>2</sup>Kayseri Water and Sewerage Administration, Kayseri, Turkey
- 18.00 - 18.20 **DEVELOPMENTS IN WIND AND MARINE ENERGY IN THE MEDITERRANEAN BASIN: A REVIEW**  
[Elif Oguz](#)<sup>1</sup>, [Mehmet Adil Akgul](#)<sup>1</sup>, [Atilla Incecik](#)<sup>2</sup>  
<sup>1</sup>Coastal and Marine Hydrodynamics Research Group (COMAR), Civil Engineering Faculty, Istanbul Technical University, Istanbul, Turkey  
<sup>2</sup>Department of Naval Architecture and Marine Engineering, University of Strathclyde, Glasgow, United Kingdom

## 19.30 - MESAEP GENERAL BODY MEETING



Sunday, 29<sup>th</sup> September

**Conference Room B**  
**Session I B: WATER POLLUTION and CONTROL I**

- 9.00 - 9.20 **A NEURAL NETWORK APPLICATION FOR A BALLAST WATER ELECTROCHLORINATION SYSTEM**  
[Fatma Yonsel<sup>1</sup>](#), [Ceren Bilgin Güney<sup>1</sup>](#), [Devrim Bülent Danişman<sup>2</sup>](#)  
<sup>1</sup>Istanbul Technical University Faculty of Naval Arch. and Ocean Engineering, Department of Ship Building and Ocean Engineering, Istanbul / Turkey  
<sup>2</sup>Istanbul Technical University Faculty of Naval Arch. and Ocean Engineering, Department of Naval Architecture and Marine Engineering, Istanbul / Turkey
- 9.20 - 9.40 **BIOMONITORING OF SELECTED CONTAMINANTS IN SHELLFISH, MYTILUS GALLOPROVINCIALIS, FROM THE COASTAL AREA OF CROATIA DURING THE PERIOD FROM 2000 TO 2009**  
[Grozdan Kušpilić](#), [Jelena Lušić](#), [Vesna Milun](#), [Branka Grbec](#), [Danijela Bogner](#)  
Institute of Oceanography and Fisheries, Split, Croatia
- 9.40 - 10.00 **EFFECT OF SOIL MANAGEMENT ON TERBUTHYLAZINE BEHAVIOUR IN AN OLIVE TREE CROP SOIL AT SOUTHWEST SPAIN**  
[M. Carmen Hermosin<sup>1</sup>](#), [M. Jesus Calderon<sup>1</sup>](#), [Elena De Luna<sup>2</sup>](#), [Jose A. Gomez<sup>3</sup>](#), [Juan Cornejo<sup>1</sup>](#)  
<sup>1</sup>Instituto de Recursos Naturales y Agrobiología de Sevilla. CSIC. Sevilla  
<sup>2</sup>Centro IFAPA Alameda del Obispo. Área de Producción Agraria Córdoba  
<sup>3</sup>Instituto de Agricultura Sostenible. CSIC. Córdoba
- 10.00 - 10.20 **DETERMINATION OF ENTERIC BACTERIA DENSITY AND VERTICAL VARIATIONS IN THE GULF OF GEMLIK (MARMARA SEA)**  
[Nüket Sivri<sup>1</sup>](#), [Dursun Zafer Şeker<sup>2</sup>](#), [Muharrem Balcı<sup>3</sup>](#), [Neslihan Balkıs<sup>4</sup>](#), [Müge Şener<sup>1</sup>](#)  
<sup>1</sup>Department of Environmental Engineering, Istanbul University, 34320, Istanbul, Turkey  
<sup>2</sup>Department of Geomatics Engineering, Istanbul Technical University, 34469, Istanbul, Turkey  
<sup>3</sup>Institute of Science, Istanbul University, 34134, Istanbul, Turkey  
<sup>4</sup>Department of Biology, Faculty of Science, Istanbul University, 34134, Istanbul, Turkey

10.30 - 11.00 Coffee break at Poster Room (Galata Hall)

**Session II B: WATER POLLUTION and CONTROL II**

- 11.00 - 11.20 **EXCEED, EMPOWER TUNISIA, AND MESAEP LINKING INTERNATIONAL NETWORKS FOR CAPACITY BUILDING AND RESEARCH ON WATER REUSE**  
[Müfit Bahadır](#)  
Institute of Environmental and Sustainable Chemistry, Technische Universität Braunschweig, Braunschweig, Germany
- 11.20 - 11.40 **MAJOR COASTAL ENGINEERING WORKS: MONITORING AND MANAGEMENT OF ENVIRONMENTAL IMPACTS AND RISKS: A CASE-STUDY FROM THE CENTRAL MEDITERRANEAN (MALTA)**  
[Victor Axiak<sup>1</sup>](#), [Joseph A Borg<sup>1</sup>](#), [Michelle Ellul<sup>1</sup>](#), [Ruth Guillaumier<sup>1</sup>](#), [Alfred J Vella<sup>2</sup>](#)  
<sup>1</sup>Department of Biology, University of Malta, Msida, Malta  
<sup>2</sup>Department of Chemistry, University of Malta, Msida, Malta.
- 11.40 - 12.00 **NON POINT SOURCE POLLUTION IN AN AGRICULTURAL CATCHMENT AND THE QUALITY OF RETURN FLOWS, UNDER MEDITERRANEAN CONDITIONS**  
[António Canatário Duarte<sup>1,2</sup>](#)  
<sup>1</sup>College of Agriculture, Polytechnique Institute of Castelo Branco, Castelo Branco, Portugal  
<sup>2</sup>CEER - Biosystems Engineering, University of Lisbon, Portugal



12.00 - 12.20 **WATER QUALITY ISSUES IN NORTHERN GREECE - A HYBRID MEMBRANE PROCESS AS A POSSIBLE SOLUTION**

[Anastasios Zouboulis<sup>1</sup>](#), [Stylianou Stylianou<sup>1</sup>](#), [Cristos Vatseris<sup>2</sup>](#), [Thomas Tsatsarelis<sup>2</sup>](#), [Sotiris Papadopoulos<sup>2</sup>](#), [Petros Samaras<sup>3</sup>](#)

<sup>1</sup>Laboratory of General and Inorganic Chemical Technology, Department of Chemistry, Aristotle University of Thessaloniki,

<sup>2</sup>Intergeo Ltd, Environmental Technology

<sup>3</sup>Department of Food Technology, Alexander Technological Education Institute of Thessaloniki,

12.45 - 14.00 Lunch

**Session III B: WATER POLLUTION and CONTROL III**

14.00 - 14.20 **ELECTROCHEMICAL TREATMENT OF WASTEWATER FROM OIL TANKER SHIPS WASHING PLANTS**

[Konstantinos Dermentzis<sup>1</sup>](#), [Dimitrios Marmanis<sup>2</sup>](#), [Achilleas Christoforidis<sup>2</sup>](#), [Konstantinos Ouzounis<sup>3</sup>](#)

<sup>1</sup>Department of Engineering Science, Kavala Institute of Technology, Kavala, Greece

<sup>2</sup>Department of Petroleum and Natural Gas Technology, Kavala Institute of Technology, Kavala, Greece

<sup>3</sup>Department of Environmental Engineering, Democritus University of Thrace, Xanthi, Greece

14.20 - 14.40 **VISIBLE AND UV-A LIGHT-INDUCED PHOTOCATALYSIS OF FORMIC AND OXALIC ACIDS WITH S-DOPED, Fe-LOADED TITANIA**

[Tugba Olmez Hanci<sup>1</sup>](#), [Nur Hanife Orak<sup>1</sup>](#), [Ayça Tetik<sup>1</sup>](#), [Işık Kabdaşlı<sup>1</sup>](#), [Teruhisa Ohno<sup>2</sup>](#), [İdil Arslan Alaton<sup>1</sup>](#), [Olcay Tünay<sup>1</sup>](#)

<sup>1</sup>Department of Environmental Engineering, Istanbul Technical University, Istanbul, Turkey

<sup>2</sup>Department of Applied Chemistry, Faculty of Engineering, Kyushu Institute of Technology, 1-1 Sensuicho, Tobata, Kitakyushu

14.40 - 15.00 **POTENTIAL TOXIC RISK FROM HEAVY METALS IN BUTRINTI LAGOON**

[Aida Bani<sup>1</sup>](#), [Teuta Topi<sup>2</sup>](#), [Romona Koto<sup>1</sup>](#)

<sup>1</sup>Agro-Environmental Department, Faculty of Agronomy and Environment, Agricultural University of Tirana

<sup>2</sup>Ministry of Agriculture, Food and Consumer Protection, Tirana, Albania

15.00 - 15.20 **FATE OF PARACETAMOL PRODUCTION WASTEWATERS UNDER AEROBIC AND ANAEROBIC TREATMENT**

[Fatos Germirli Babuna](#), [Edip Avsar](#), [Fatma Gülen Iskender](#), [Beril Darcan](#)

Department of Environmental Engineering, Istanbul Technical University, Istanbul, Turkey

15.20 - 15.40 **DETECTION OF PSEUDOMONAS SPP. FROM SEAWATER IN THE ISTANBUL COASTAL AREA**

[Nüket Sivri<sup>1</sup>](#), [Mark Jones<sup>2</sup>](#), [Mike J. Allen<sup>2</sup>](#)

<sup>1</sup>Environmental Engineering Department, Istanbul University, Istanbul, TURKEY

<sup>2</sup>Plymouth Marine Laboratory, Prospect Place, Plymouth, UK

**15.40 - 16.00 Coffee Break at Poster Room**

16.00 - 17.00

**POSTER SESSION I (Galata Hall)**

Emerging pollutants, Renewable energy sources,  
Waste management, Water pollution and control



## Session IV B: WATER POLLUTION and CONTROL IV

- 17.00 - 17.20 **CATECHOLAMINE LEVELS OF FRESHWATER AMPHIPODS FROM DIFFERENT HABITATS AND THEIR ALTERATIONS INDUCED BY TEMPERATURE STRESS**  
[Gerd Pfister](#)<sup>1</sup>, [Maria Avramov](#)<sup>2</sup>, [Theresa Maria Rock](#)<sup>1</sup>, [Julia Rieb](#)<sup>1</sup>, [Susanne I. Schmidt](#)<sup>2</sup>, [Christian Griebler](#)<sup>2</sup>, [Karl Werner Schramm](#)<sup>3</sup>  
<sup>1</sup>Molecular EXposomics (MEX), Helmholtz Zentrum München - German Research Center for Environmental Health. Germany  
<sup>2</sup>Institute of Groundwater Ecology, Helmholtz Zentrum München - German Research Center for Environmental Health, Germany  
<sup>3</sup>Molecular EXposomics (MEX), Helmholtz Zentrum München and Department für Biowissenschaften, Technische Universität München, Wissenschaftszentrum Weihenstephan für Ernährung und Landnutzung. Germany
- 17.20 - 17.40 **ASSESSMENT OF CONTAMINATION BY ANTIFOULING BIOCIDES IN DIFFERENT COASTAL AREAS OF APULIA (IT) AND ALBANIA IN THE SOUTH ADRIATIC SEA**  
[Paolo Massanisso](#)<sup>1</sup>, [Afrim Tabaku](#)<sup>3</sup>, [Massimo Pezza](#)<sup>1</sup>, [Giuseppe Di Landa](#)<sup>2</sup>, [Giuliana Ansanelli](#)<sup>2</sup>, [Salvatore Chiavarini](#)<sup>1</sup>, [Carla Ubaldi](#)<sup>2</sup>, [Sonia Manzo](#)<sup>2</sup>  
<sup>1</sup>Techn. Unit for Env. Charact., Prevention, and Recovery (UTPRA), ENEA.Italy  
<sup>2</sup>Technical Unit for Technologies Development - Portici Research Centre (UTTP), ENEA, Naples, Italy  
<sup>3</sup>Unit of RTD and Inovations, Academy of Science (ASA), Tirana, Albania
- 17.40 - 18.00 **ASSEMENT OF LONG TERM POLLUTION LOADS IN PORSUK RIVER**  
[Firdes Yenilmez](#), [Ayşegül Aksoy](#)  
Department of Env. Engineering, Middle East Technical University, Ankara, Turkey
- 18.00 - 18.20 **SEASONAL VARIATION AND INPUTS OF THE NUTRIENTS LOADS TO THE ESTUARY OF PAMISOS RIVER (MESSINIA - PELOPONNESE) GREECE**  
[Evangelia Anastasopoulou](#), [Nikolaos Skoulikidis](#), [Alexandra Pavlidou](#), [Eleni Rouselaki](#), [Konstantinos Gritzalis](#)  
Hellenic Centre for Marine Research, Institute of Marine Biological Resources and Inland Waters. Anavyssos Attica, Greece.

## 19.30 - MESAEP GENERAL BODY MEETING

## POSTERS, 29.09.2013

### EMERGING POLLUTANTS

- 05-p-01 THE FATE OF NONYLPHENOLIC COMPOUNDS IN WATER AND WASTEWATER SYSTEMS**  
[Fadime Kara Murdoch](#)<sup>1</sup>, [Seçil Ömeroğlu](#)<sup>2</sup>, [Hande Bozkurt](#)<sup>2</sup>, [Muneer Ahmad](#)<sup>2</sup>, [Faika Dilek Sanin](#)<sup>2</sup>  
<sup>1</sup>Department of Biotechnology, Middle East Technical University, Ankara, Turkey  
<sup>2</sup>Department of Environmental Engineering, Middle East Technical University, Ankara, Turkey
- 05-p-02 A NOVEL OZONE ASSISTED PROCESS FOR TREATMENT OF EDCS IN BIOLOGICAL SLUDGE**  
[Melis Muz](#)<sup>1</sup>, [Selcen Münire Ak](#)<sup>1</sup>, [Okan Tarık Komesli](#)<sup>2</sup>, [Celal Ferdi Gökçay](#)<sup>1</sup>  
<sup>1</sup>Department of Environmental Engineering, Middle East Technical University, Ankara, Turkey  
<sup>2</sup>Department of Environmental Engineering, Atatürk University, Erzurum, Turkey
- 05-p-03 ENDOCRINE DISRUPTING COMPOUNDS, EDCS, OBSERVED IN TURKISH DOMESTIC EFFLUENTS AND THEIR TREATABILITY IN WASTEWATER TREATMENT PLANTS**  
[Münire Selcen Ak](#)<sup>1</sup>, [Melis Muz](#)<sup>1</sup>, [Okan Tarık Komesli](#)<sup>2</sup>, [Celal Ferdi Gökçay](#)<sup>1</sup>  
<sup>1</sup>Dept of Environmental Engineering, Middle East Technical University, Ankara, Turkey  
<sup>2</sup>Dept of Environmental Engineering, Atatürk University, Erzurum, Turkey
- 05-p-04 ELECTROMAGNETIC FIELDS (EMF) ENVIRONMENTAL POLLUTION AND THE MUOS CASE**  
[Massimo Zucchetti](#)<sup>1</sup>, [Massimo Coraddu](#)<sup>1</sup>, [Angelo Levis](#)<sup>2</sup>  
<sup>1</sup>Politecnico di Torino, Italy  
<sup>2</sup>University of Padova, Italy
- 05-p-05 MgO IMPLEMENTATION ON SPENT WITH ARSENIC IRON OXY-HYDROXIDES REGENERATION**  
[Sofia Tresintsi](#)<sup>1</sup>, [Konstantinos Simeonidis](#)<sup>2</sup>, [Maria Katsikini](#)<sup>2</sup>, [Georgios Bantsis](#)<sup>1</sup>, [Manassis Mitrakas](#)<sup>1</sup>  
<sup>1</sup>Analytical Chemistry Laboratory, Department of Chemical Engineering, Aristotle University of Thessaloniki, 54124 Greece  
<sup>2</sup>Department of Physics, Aristotle University of Thessaloniki, 54124 Greece
- 05-p-06 HAZARD ASSESSMENT OF EMERGING POLLUTANTS: QSAR/QSPR MODELS DEVELOPED IN THE FP7 EUROPEAN PROJECT CADASTER**  
[Paola Gramatica](#), [Ester Papa](#), [Simona Kovarich](#), [Barun Bhatarai](#), [Partha Pratim Roy](#), [Stefano Cassani](#), [Nicola Chirico](#)  
Department of Theoretical and Applied Sciences, Insubria University, Varese, Italy
- 05-p-07 EVALUATION OF MICROEXTRACTION METHOD FOR THE DETERMINATION OF TRACE LEVELS OF ENDOCRINE DISRUPTOR CHEMICALS IN FOOD SAMPLES**  
[Vasilios Sakkas](#), [Ioanna Kaveli](#), [Triantafyllos Albanis](#)  
University of Ioannina, Department of Chemistry, Ioannina, Greece
- 05-p-08 BIOCATALYTIC DEGRADATION OF POLYCYCLIC AROMATIC HYDROCARBONS BY INNOVATIVE NANOBIOCATALYTIC SYSTEMS**  
[Michaela Patila](#)<sup>1</sup>, [Ali A Taha](#)<sup>2</sup>, [Evanthia Champla](#)<sup>1</sup>, [Maria H Katsoura](#)<sup>1</sup>, [Athena A Papadopoulou](#)<sup>1</sup>, [Aggeliki Polydera](#)<sup>1</sup>, [Petros Katapodis](#)<sup>1</sup>, [Haralambos Stamatis](#)<sup>1</sup>  
<sup>1</sup>Department of Biological Applications & Technologies, University of Ioannina, Ioannina, Greece  
<sup>2</sup>Nanotechnology Advanced Materials Research Center, University of Technology, Baghdad, Iraq



- 05-p-09 ANAEROBIC DEGRADABILITY OF DICLOFENAC UNDER MESOPHILIC CONDITIONS**  
[Sevgi Sarı](#), [Didem Okutman Tas](#)  
Department of Environmental Engineering, İstanbul Technical University, İstanbul, Turkey
- 05-p-10 STUDY OF THE EFFECT OF PHARMACEUTICALS IN THE URBAN WASTEWATER**  
[Ghoualem Hafida](#), [Naitali Fateh](#)  
Laboratoire d'Electro-Chimie, Corrosion, Métallurgie et Chimie Minérale, Faculté de Chimie, USTHB, El-Alia Bab-Ezzouar. Alger, Algérie
- 05-p-11 ASSESSMENT OF HEAVY METAL CONTRIBUTION IN THE COASTAL ZONE SEDIMENTS OF BLACK SEA; CASE STUDY OF TRABZON**  
[Koray Ozseker](#), [Coskun Eruz](#), [Sadi Kilic](#)  
Karadeniz Technical University

## RENEWABLE ENERGY SOURCES

- 09-p-01 PAN-HELLENIC SOCIAL SURVEY ON HOW THE ECONOMIC CRISIS AFFECTS PEOPLES' ATTITUDES TOWARDS R.E.S. AND THE ENVIRONMENT (2013)**  
[Panos Kosmopoulos](#), [Athina Kantzioura](#), [Ioannis Kosmopoulos](#), [Konstantinos Kleskas](#), [Andreas Michael Kosmopoulos](#)  
Department of Environmental Engineering, DUTh University, Xanthi, Greece
- 09-p-02 ON DEPLOYMENT OF OFFSHORE WIND FARMS IN BOZCAADA REGION, TURKEY**  
[Mehmet Adil Akgul](#)<sup>1</sup>, [Elif Oguz](#)<sup>1</sup>, [Atilla Incecik](#)<sup>2</sup>  
<sup>1</sup>Coastal and Marine Hydrodynamics Research Group (COMAR), Civil Engineering Faculty, İstanbul Technical University, İstanbul, Turkey  
<sup>2</sup>Department of Naval Architecture and Marine Engineering, University of Strathclyde, Glasgow, United Kingdom
- 09-p-03 INVESTIGATION OF CO-COMBUSTION OF MEDITERRANEAN BIOMASS FUELS WITH LIGNITES**  
[Despina Vamvuka](#), [Victoria Tsamourgeli](#), [Konstantinos Komnitsas](#), [Dimitra Zaharaki](#)  
Department of Mineral Resources Engineering, Technical University of Crete, Hania, Greece
- 09-p-04 EFFECT OF THE TEMPERATURE ON NOX AND CO EMISSIONS FROM LAB SCALE COMBUSTION OF WASTE WOOD SAMPLES**  
[Sema Yurdakul](#)<sup>1</sup>, [Günter Baumbach](#)<sup>2</sup>, [Bertram Kuch](#)<sup>3</sup>, [Dieter Straub](#)<sup>2</sup>  
<sup>1</sup>Environmental Engineering Department, METU, Ankara/Turkey  
<sup>2</sup>IFK, University of Stuttgart, Stuttgart/Germany  
<sup>3</sup>ISWA, University of Stuttgart, Stuttgart/Germany
- 09-p-05 COMPARISON OF LONG-TERM BROADBAND MODEL RESULTS WITH EXPERIMENTAL MEASUREMENTS OF SOLAR RADIATION**  
[Kosmas A Kavadias](#)<sup>1</sup>, [Athanasios G Paliatsos](#)<sup>2</sup>, [Harris D Kambezidis](#)<sup>3</sup>, [Aristides Bartzokas](#)<sup>1</sup>  
<sup>1</sup>Laboratory of Meteorology, Department of Physics, University of Ioannina, Greece  
<sup>2</sup>General Department of Mathematics, TEI of Piraeus, Greece  
<sup>3</sup>Atmospheric Research Team, Institute of Environmental Research and Sustainable Development, National Observatory of Athens, Greece
- 09-p-06 DEVELOPMENT OF A GREEK SOLAR MAP BASED ON EXPERIMENTAL MEASUREMENTS**  
[Kosmas A Kavadias](#)<sup>1</sup>, [Dimitrios Zafirakis](#)<sup>1</sup>, [Konstantinos P Moustiris](#)<sup>2</sup>, [Athanasios G Paliatsos](#)<sup>3</sup>, [Harris D Kambezidis](#)<sup>4</sup>, [Aristides Bartzokas](#)<sup>5</sup>  
<sup>1</sup>Lab of Soft Energy Applications & Environmental Protection, TEI of Piraeus, Greece  
<sup>2</sup>Department of Mechanical Engineering, TEI of Piraeus, Greece  
<sup>3</sup>General Department of Mathematics, TEI of Piraeus, Greece  
<sup>4</sup>Atmospheric Research Team, Institute of Environmental Research and Sustainable Development, National Observatory of Athens, Greece  
<sup>5</sup>Laboratory of Meteorology, Department of Physics, University of Ioannina, Greece



- 09-p-07 **INVESTIGATION OF THE ENVIRONMENTAL IMPACTS OF HYDROELECTRIC POWER PLANTS USING REMOTE SENSING TECHNIQUE**  
[Nergiz Koçhan Arı](#), [Dursun Zafer Şeker](#)  
Department of Geomatics Engineering, Istanbul Technical University, Istanbul, Turkey
- 09-p-08 **FLOW PATTERN SIMULATION OF SAVINOUS ROTOR OF THE TWO-BUCKET USING SLIDING MESH TECHNIQUE**  
[Dhirgham Al Khafaji](#), [Sahir Al Muhana](#), [Bassil Hadi](#)  
Department of Mechanical engineering/College of Engineering, University of Babylon/  
Babylon Iraq

## WASTE MANAGEMENT

- 11-p-01 **ANAEROBIC DIGESTION OF FOOD WASTES AND DAIRY CATTLE MANURE UNDER THERMOPHILIC CONDITIONS: FOCUSING ON ORGANIC LOADING RATE**  
[Georgios Pilidis](#), [Artemis Sofikiti](#), [Maritina Latsou](#), [Ioannis Zarkadas](#)  
Department of Biological Application and Technologies. University of Ioannina, 45110, Greece
- 11-p-02 **KINETICS AND THERMODYNAMICS STUDIES OF COBALT IONS ADSORPTION ONTO ZEOLITE A FROM AQUEOUS SOLUTIONS**  
[Samira Amokrane](#), [El Hadj Mekatel](#), [Asma Aid](#), [Soumia Bensafi](#), [Djamel Nibou](#)  
Laboratory of Materials Technology, University of Science and Technology Houari Boumediene, Algiers, Algeria
- 11-p-03 **CITRIC ACID AS AN ALTERNATIVE LIXIVANT FOR ZINC RECOVERY FROM ZNO/AL<sub>2</sub>O<sub>3</sub> CATALYST**  
[Souad Djerad](#), [Rima Larba](#), [Lakhdar Tifouti](#)  
Department of Chemical Engineering, University of Annaba, P.O. Box 12, Annaba 23000, Algeria.
- 11-p-04 **INFLUENCE OF COMPOST PRODUCED FROM SEWAGE SLUDGE ON BARLEY BIOMASS AND SOIL PROPERTIES**  
[Christos Dimitrios Tsadilas](#)  
Hellenic Agricultural Association, Institute of Soil Mapping and Classification, Larissa, Greece
- 11-p-05 **THE USE OF STEEL SLAG AS A LIMING AGENT FOR ACID SOILS**  
[Eugenia Gament](#)<sup>1</sup>, [Mihaela Ulmanu](#)<sup>2</sup>, [Mircea Mihalache](#)<sup>3</sup>, [Mariana Marinescu](#)<sup>1</sup>, [Georgiana Plopeanu](#)<sup>1</sup>, [Ildiko Anger](#)<sup>2</sup>, [Leonard Ilie](#)<sup>3</sup>, [Nicoleta Vrinceanu](#)<sup>1</sup>  
<sup>1</sup>National R&D Institute for Soil Science, Agrochemistry and Environment - ICPA, Bucharest, Romania  
<sup>2</sup>National R&D Institute for Nonferrous and Rare Metals, Pantelimon, Romania  
<sup>3</sup>University of Agronomic Sciences and Veterinary Medicine of Bucharest, Bucharest, Romania
- 11-p-06 **BIOCHAR FROM OLIVES WASTES AS EFFICIENT AGENT FOR POLLUTED WATER REMEDIATION**  
[Souad El Hajjaji](#)<sup>1</sup>, [Abdelmalek Dahchour](#)<sup>2</sup>, [Nora Ellassal](#)<sup>1</sup>, [Meryem Lagrissi](#)<sup>1</sup>, [Saloua Sebbahi](#)<sup>1</sup>, [Mohamadine El M'rabet](#)<sup>2</sup>, [Mohammed El Azzouzi](#)<sup>1</sup>, [Said Kitane](#)<sup>3</sup>  
<sup>1</sup>Laboratory of Spectroscopy, Molecular Modeling, Materials and Environment, Faculty of Sciences, University Mohamed V- Agdal, Av Ibn Battouta, BP1014, Rabat 10000, Morocco  
<sup>2</sup>Department of fundamental and Applied Sciences, Hassan II Agronomic and Veterinary Institute, BP 62002 Rabat-Institute 10000, Morocco  
<sup>3</sup>Laboratoire Mines, Energie et Environnement. Ecole Nationale de l'Industrie Minérale, Agdal, Rabat, Morocco



- 11-p-07 **MEDICAL WASTE MANAGEMENT - CASE STUDY OF CLINICAL CENTRE UNIVERSITY OF SARAJEVO**  
[Emina Hadzic](#), [Nerma Ligata](#)  
Department of Hydrotechnics, Faculty of Civil Engineering, University of Sarajevo
- 11-p-08 **WASTE MANAGEMENT AND INDUSTRIAL ECOLOGY**  
[Luciano Morselli](#)<sup>1</sup>, [Luca Ciacci](#)<sup>2</sup>, [Fabrizio Passarini](#)<sup>1</sup>  
<sup>1</sup>Department of Industrial Chemistry "Toso Montanari", University of Bologna, Bologna, Italy  
<sup>2</sup>Centro Interdipartimentale di Ricerca Industriale Energia e Ambiente, CIRI ENA, University of Bologna, Bologna, Italy
- 11-p-09 **EFFECTS OF BIOSOLID ON PLANT AVAILABLE METALS AND pH IN KIWI FRUIT APPLICATION**  
[Gülgün Dede](#)<sup>1</sup>, [Ömer Hulusi Dede](#)<sup>1</sup>, [Hüseyin Altundağ](#)<sup>2</sup>, [Fatma Tülay Kızıloğlu](#)<sup>3</sup>, [Serra Konuk](#)<sup>1</sup>, [Dilan Dikme](#)<sup>1</sup>, [Sinem Acar](#)<sup>1</sup>  
<sup>1</sup>Sakarya University, Engineering Faculty, Environmental Engineering Department, 54187 Sakarya, Turkey  
<sup>2</sup>Sakarya University, Faculty of Arts and Sciences, Department of Chemistry, 54187 Sakarya, Turkey  
<sup>3</sup>Sakarya University, Faculty of Arts and Sciences, Department of Geography, 54187 Sakarya, Turkey
- 11-p-10 **CONCEPT OF RECLAMATION MANAGEMENT FOR THE HEAVY-DUTY WASTE ENGINE OILS**  
[Volkan Pelitli](#), [H.merve Başar](#), [Özgür Doğan](#), [Işıl Ataçoğlu](#)  
TÜBİTAK Marmara Research Center, Environment and Clean Production Institute
- 11-p-11 **EFFECTS OF MUNICIPAL SOLID WASTE COMPOST ON NET NITROGEN MINERALIZATION AND POTENTIAL NITRIFICATION RATES IN CLAYEY AND SANDY SOILS.**  
[Androniki Papafilippaki](#), [Nikolaos Paranychianakis](#), [Nikolaos P. Nikolaidis](#)  
Laboratory of Hydrogeochemical Engineering and Remediation of Soil, Department of Environmental Engineering, Technical University of Crete (TUC), Chania, Greece
- 11-p-12 **LIFE CYCLE THINKING OF BIOWASTE MANAGEMENT**  
[Kemal Aktas](#), [Bülent Topkaya](#)  
Akdeniz University
- 11-p-13 **ENVIRONMENTAL POLLUTION MANAGEMENT IN SEE PORTS AND COSTAL AREAS**  
[Tania Floqi](#)<sup>1</sup>, [Leonardo Damiani](#)<sup>2</sup>, [Jordan Marinski](#)<sup>3</sup>, [Tatiana Branca](#)<sup>2</sup>, [Matilda Mali](#)<sup>2</sup>, [Chrysostomos Stylios](#)<sup>4</sup>  
<sup>1</sup>University of Tirana, Tirana, Albania  
<sup>2</sup>Polytechnic of Bari  
<sup>3</sup>Institute of Meteorology and Hydrology, Sofia  
<sup>4</sup>Educational Institute of Epirus, Arta, 47100 Greece
- 11-p-14 **LIFE CYCLE ASSESSMENT OF WASTE TIRE PYROLYSIS**  
[Müfide Banar](#)  
Anadolu University, Faculty of Engineering, Department of Environmental Engineering, Eskişehir, Turkey
- 11-p-15 **MUNICIPAL LANDFILL SITE SELECTION TO SUSTAINABLE DEVELOPMENT BY USING ANALYTIC HIERARCHY PROCESS, ARTIFICIAL NEURAL NETWORK AND GIS**  
[Mohammad Zare](#)<sup>1</sup>, [Mahbobeh Sheikh](#)<sup>2</sup>  
<sup>1</sup>University of Tehran  
<sup>2</sup>University of Gorgan



- 11-p-16 **OLIVE MILL WASTEWATER EVAPORATION POND SELECTION USING MULTI-CRITERIA ANALYSIS IN GIS ENVIRONMENT**  
[Moncef Zairi](#), [Abdelwaheb Aydi](#), [Rakia Shabou](#)  
Department of Civil Engineering, National School of Engineers, Sfax, Tunisia
- 11-p-17 **ALTERNATIVE TECHNIQUES OF TREATMENT AND RECOVERY / RECYCLING OF MUNICIPAL SOLID WASTE IN SETIF (ALGERIA)**  
[Djirar Nacer](#), [Tedjar Lamri](#), [Sersoub Jazia](#)  
Departement Biology University el Bez1 Setif, Algeria
- 11-p-18 **ANAEROBIC DIGESTION OF ORGANIC MUNICIPAL SOLID WASTE: A VALID WASTE MANAGEMENT OPTION**  
[Denis Andreas Sarigiannis](#), [Stavros Theofanidis](#)  
Department of Chemical Engineering, Aristotle University of Thessaloniki, Thessaloniki, 54124, Greece
- 11-p-19 **UTILIZATION OF Mn-Fe WASTES FROM ELECTROLYTIC MnO<sub>2</sub> PRODUCTION IN EM SHIELDING CERAMICS**  
[Constantinos Angelos Sikalidis](#), [George Nikolaos Bantsis](#)  
Department of Chemical Engineering, Aristotle University, Thessaloniki, Greece
- 11-p-20 **GUIDELINES AND PRIORITIES IN SOLVING MUNICIPAL WASTE MANAGEMENT PROBLEMS IN THE AREA OF BOSNIA AND HERZEGOVINA**  
[Emina Hadzic](#), [Nerma Ligata](#)  
Department of Hydrotechnics, Faculty of Civil Engineering, University of Sarajevo
- 11-p-21 **INVESTIGATING THE BIODEGRADATION OF STARCH-BASED BIOPLASTIC WASTES BY THE WHITE ROT FUNGUS CORIOLUS VERSICOLOR**  
[Ezgi Bezirhan](#), [H. Duygu Ozsoy](#)  
Mersin University, Department of Environmental Engineering, Mersin, Turkey
- 11-p-22 **EVALUATION OF EU-COHERENT MUNICIPAL SOLID WASTE MANAGEMENT PLANNING IN TURKEY**  
[Hüseyin Güven](#), [Izzet Öztürk](#)  
Department of Environmental Engineering, Istanbul Technical University, Maslak, Istanbul, Turkey
- 11-p-23 **EFFECT OF PRIMARY SETTLING ON STABILIZATION OF BIOLOGICAL SLUDGE UNDER AEROBIC CONDITION**  
[Seda Özdemir<sup>1</sup>](#), [Enes Özkök<sup>1</sup>](#), [Osman Arıkan<sup>1</sup>](#), [Emine Ubay Çokgör<sup>1</sup>](#), [Derin Orhon<sup>1</sup>](#), [Seda Özdemir<sup>2</sup>](#)  
<sup>1</sup>Environmental Engineering Department, Istanbul Technical University, Turkey  
<sup>2</sup>Istanbul Metropolitan Municipality, Directorate of Environmental Protection, Turkey
- 11-p-24 **EVALUATION OF ENZYME ADDITION IN AEROBIC STABILIZATION OF BIOLOGICAL SLUDGE**  
[Elif Pehlivanoglu Mantas](#), [Melike Gurel](#), [Guclu Insel](#), [Emel Topuz](#), [Alpaslan Ekdal](#), [Egemen Aydin](#), [Nilay Sayi Ucar](#), [Emine Cokgor](#), [Didem Okutman Taş](#)  
Department of Environmental Engineering, Istanbul Technical University, Istanbul, Turkey
- 02-p-25 **GIS-BASED SITE SELECTION OF A MUNICIPAL SOLID WASTE DISPOSAL USING SPATIAL MULTI-CRITERIA ANALYSIS: EVALUATING THE CASE FOR KOCAELI CITY**  
[Ozan Arslan<sup>1</sup>](#), [M. Kemal Korucu<sup>2</sup>](#), [Aykan Karademir<sup>2</sup>](#)  
<sup>1</sup>University of Kocaeli, Department of Geomatics Engineering  
<sup>2</sup>University of Kocaeli, Department of Environmental Engineering



- 02-p-26**      **OPTIMIZATION OF MUNICIPAL SOLID WASTE COLLECTION SYSTEM IN AN AEGEAN TOURISTY AREA: BURHANIYE**  
[Teoman Dikerler<sup>1</sup>](#), [Sinem Erdogdu<sup>2</sup>](#), [Fikret Akova<sup>3</sup>](#)  
<sup>1</sup>Istanbul Technical University, Geomatics Engineering Department, Maslak, Istanbul  
<sup>2</sup>BirTek Waste Management Co., Atasehir, Istanbul  
<sup>3</sup>Burhaniye Municipality, Burhaniye, Balikesir
- 02-p-27**      **FENTON AND OZONE DISINTEGRATION OF EXCESS SLUDGE**  
[Serdar Dogruel](#), [Elif Pehlivanoglu Mantas](#), [Tugba Olmez Hanci](#), [Melike Gurel](#), [Emel Topuz](#), [Emine Cokgor](#)  
Department of Environmental Engineering, Istanbul Technical University, Istanbul, Turkey
- 02-p-28**      **THERMOPHILIC ANAEROBIC DIGESTION OF LIVESTOCK MANURE & ANIMAL FAT IN HIGHLY LOADED DIGESTERS**  
[Georgios Pilidis](#), [Maritina Latsou](#), [Artemis Sofikiti](#), [Ioannis Zarkadas](#)  
Department of Biological Application and Technologies. University of Ioannina, 45110, Greece
- 02-p-29**      **UTILIZATION OF ALTERNATIVE MATERIALS AND MIXTURES IN LANDFILL LINERS**  
[Gamze Varank](#), [Ahmet Demir](#), [Mehmet Sinan Bilgili](#), [Selin Top](#), [Elif Sekman](#)  
Department of Environmental Engineering, Yildiz Technical University, Istanbul, Turkey
- 02-p-30**      **EVALUATION OF THE IMPACTS OF PUBLIC PARTICIPATION ON MUNICIPAL WASTE MANAGEMENT**  
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<sup>1</sup>Department of Biochemistry, Badji Mokhtar University  
<sup>2</sup>Laboratory of Applied Organic Chemistry, Badji Mokhtar University  
<sup>3</sup>Laboratory of Cell Toxicology, Department of Biology, Badji Mokhtar University
- 12-p-55 **POLLUTION OF TIGRIS RIVER SEDIMENT WITH HEAVY METALS BETWEEN HAMMAM AL-ALIL AND SAMARAA /NORTH IRAQ**  
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Applied Geology Department/College of Science/Tikrit University. Iraq
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Applied Geology Department/College of Science/University of Tikrit/Iraq
- 12-p-57 **MODELING AND OPTIMIZATION OF BIOLOGICAL TREATMENT IN THE DESIGN OF A WASTEWATER TREATMENT ACTIVATED SLUDGE**  
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<sup>1</sup>University of El-Tarf, Algeria  
<sup>2</sup>Laboratory of cell Toxicology, university of Badji Mokhtar, Annaba, Algeria
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<sup>1</sup>Laboratoire Géosystèmes (UMR 8217 CNRS) - Université Lille Nord de France  
<sup>2</sup>Laboratoire de Chimie de l'Eau et de l'Environnement (L.C.E.E)
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<sup>1</sup>Department of Fish Diseases and Management, Faculty of Veterinary Medicine, Cairo University.  
<sup>2</sup>Department of Biochemistry and Toxicology, Animal Health Institute, Dokki, Giza.  
<sup>3</sup> Department of Hydrobiology, National Research Center, Dokki, Giza.  
<sup>4</sup>Department of Cell Biology, National Research Center, Dokki, Giza.
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<sup>1</sup>University of sultan moulay slimane Faculty of sciences and technics, laboratory of valorization and safety of agrofood Beni Mellal Morroco  
<sup>2</sup>Laboratory of bioorganic chemical and molecular, University Cadi Ayyad, Faculty of science, Semlalia, Marrakech Morroco  
<sup>3</sup>laboratory of parasitolog and epedimiology USMS, Faculty of scoence and technics, Beni mellalL Morroco



- 12-p-62 **GRAPHENE-BASED MAGNETIC NANOSORBENTS FOR THE ENRICHMENT OF ENVIRONMENTAL ORGANIC POLLUTANTS PRIOR TO THEIR DETERMINATION BY GAS CHROMATOGRAPHY-MASS SPECTROMETRY**  
[Anna Karamani](#), [Thodoris G Chatzimitakos](#), [Constantine D Stalikas](#)  
Department of Chemistry, University of Ioannina, Ioannina 451 10, Greece
- 12-p-63 **REMOVAL OF AS(V) AND AS(III) FROM GROUNDWATER BY A NEW AIR INJECTED ELECTROCOAGULATION REACTOR USING FE BALL ANODES: OPTIMIZATION OF OPERATING PARAMETERS**  
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<sup>1</sup>Department of Environmental Engineering, Gebze Institute of Technology, Gebze, Turkey  
<sup>2</sup>Department of Chemistry, Gebze Institute of Technology, Gebze, Turkey  
<sup>3</sup>Department of Environmental Engineering, Bulent Ecevit University, Zonguldak, TURKEY
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<sup>1</sup>International Relations Office, Trakya University, Edirne, Turkey  
<sup>2</sup>Department of Environmental Engineering, İstanbul University, İstanbul, Turkey  
<sup>3</sup>Department of Geomatics, İstanbul Technical University, İstanbul, Turkey
- 12-p-65 **THE PREDICTION OF FLOW RATE AND NUTRIENT LOAD WITH ARTIFICIAL NEURAL NETWORKS IN ERGENE RIVER BASIN**  
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<sup>3</sup>The Department of Electrical and Electronic Engineering, Faculty of Engineering, İstanbul University,  
<sup>4</sup>The Department of Electrical and Electronics Engineering, Faculty of Engineering and Architecture, İstanbul
- 12-p-66 **COST COMPARISON OF CONVENTIONAL AND SUSTAINABLE URBAN DRAINAGE SYSTEMS - A UNIVERSITY CAMPUS AS A CASE STUDY**  
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<sup>1</sup>Degora Yağmur Suyu Yönetim Sistemleri, Maltepe, İstanbul, Turkey  
<sup>2</sup>İstanbul Technical University, Department of Environmental Engineering, 34469, Maslak, İstanbul/Turkey
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<sup>1</sup>Water Supply & Sewerage Association of Albania, Tirana, Albania  
<sup>2</sup>Polytechnic University of Tirana, Tirana, Albania
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<sup>3</sup>Department für Biowissenschaften, TUM, Freising, Germany
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Department of Civil Engineering, İstanbul University, İstanbul, Turkey



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<sup>3</sup>Laboratoire Mines, Energie et Environnement. Ecole Nationale de l'Industrie  
Minérale, Agdal, Rabat, Morocco
- 12-p-71 PHYSICO-CHEMICAL CHARACTERISTICS AND WATER QUALITY ASSESSMENT FROM KARAVASTA LAGOON**  
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Agro-Environmental Department, Agricultural University of Tirana, Kamez, Albania
- 12-p-72 GROSS ALPHA-BETA RADIOACTIVITY ANALYSES OF SPRING AND SEA WATER SAMPLES IN MEDITERNEAN COAST OF TURKEY FOLLOWING THE FUKUSHIMA DAI-ICHI NUCLEAR ACCIDENT**  
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Department of Physics, Akdeniz University, Antalya, Turkey
- 12-p-73 APPLICATION OF QPCR TECHNIQUE FOR MICROBIAL SOURCE TRACKING**  
[Vedat Yılmaz](#)  
Department of Environmental Engineering, Akdeniz University, Turkey
- 12-p-74 OZONE MASS TRANSFER FROM A CLEAN SINGLE BUBBLE TO INDUSTRIAL WASTEWATER FOR PHENOL DEGRADATION**  
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[Hassan Chaair<sup>1</sup>](#)  
<sup>1</sup>Laboratoire de Génie des Procédés et Environnement, Faculté des Sciences et  
Techniques de Mohammedia, Université Hassan II Mohammedia-Casablanca, Maroc  
<sup>2</sup>Equipe de recherche Hydrogéologie, Traitement et Epuration des Eaux et  
Changements Climatiques, Ecole Hassania des Travaux Publics, Casablanca, Maroc
- 12-p-75 CHLORINATED PESTICIDE ENDOSULFAN TREATMENT USING BIO-BARRIER**  
[Ayla Bilgin<sup>1</sup>](#), [Selim Latif Sanin<sup>2</sup>](#)  
<sup>1</sup>Department of environmental engineering, Çoruh University, Artvin, Turkey  
<sup>2</sup>Department of environmental engineering, Hacettepe University, ankara, Turkey
- 12-p-76 REMOVAL OF CHLOROPHENOLS WITH USING ACCLIMATED ACTIVATED SLUDGE MICROORGANISMS**  
[Ece Ümmü Deveci<sup>1</sup>](#), [Serkan Teoman<sup>2</sup>](#), [Hilal Ece Kaplan<sup>3</sup>](#)  
Niğde University. Department of Environmental Engineering, Niğde, Turkey.
- 12-p-77 PHYSICO-CHEMICAL CHARACTERIZATION OF SURFACE WATERS OF THE OUED MEDJERDA (EASTERN ALGERIA)**  
[Marok Guasmi Imen<sup>1</sup>](#), [Hadji Fatiha<sup>2</sup>](#), [Benaabidate Lahcen<sup>3</sup>](#)  
<sup>1</sup>Laboratory of Physical Metallurgy and properties of materials (LM2PM), Hydraulic  
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<sup>2</sup>Laboratory of Spectrochemistry and structural Pharmacology, Department of Earth  
and Universe Sciences, Faculty SNV-STU, BO: 119, University of Tlemcen, Algeria  
<sup>3</sup>Laboratoire de Géorressources and Environment, Faculty of Science and Technology,  
University of Fez, Morocco.



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[Abderrahmane Kherbeche](#)<sup>1</sup>, [Brahim Lekhlif](#)<sup>2</sup>, [Mohamed Sinan](#)<sup>1</sup>, [Mustapha Mahi](#)<sup>3</sup>  
<sup>1</sup>Environmental Engineering Laboratory, EHTP, Hassan II University, Casablanca, Morocco  
<sup>2</sup>Polymer Research Team, ENSEM, Casablanca, Morocco  
<sup>3</sup>International Institute of water and Sanitation, National Office of Electricity and Drinking water, Rabat, Morocco
- 12-p-79      **DETERMINATION OF SPECIFIC POLLUTANTS IN COASTAL AND TRANSITIONAL WATERS A CASE STUDY: TURKEY**  
[Pembe Özer Erdoğan](#)<sup>1</sup>, [Hatice Merve Başar](#)<sup>1</sup>, [Gülşen Avaz](#)<sup>1</sup>, [Melek Özkan](#)<sup>2</sup>  
<sup>1</sup>Environment and Clean Production Institute, TUBITAK Marmara Research Center, Kocaeli, Turkey  
<sup>2</sup>Environmental Engineering Department, Gebze Institute of Technology, Kocaeli, Turkey
- 12-p-80      **ASSESSMENT OF CARBON REMOVAL AND NITRIFICATION PERFORMANCE IN IMMOBILIZED- BATCH BIOREACTORS**  
[Merve Ergül](#)<sup>1</sup>, [Saliha Beslen](#)<sup>1</sup>, [Didem Güven](#)<sup>2</sup>, [Seval Sözen](#)<sup>1</sup>, [Derin Orhon](#)<sup>3</sup>  
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<sup>2</sup>Fatih University Faculty of Engineering, Department of Environmental Engineering, 34500 Buyukcekmece-Istanbul, Turkey  
<sup>3</sup>The Science Academy, 34353 Besiktas-Istanbul, Turkey
- 12-p-81      **REMOVAL OF Pb<sup>2+</sup> FROM THEIR AQUEOUS SOLUTIONS BY FUNCTIONALIZED POLYAMIDE 6.6 YARNS WITH N-ALLYLIMINODIACETIC ACID**  
[El Bouchti Mehdi](#)<sup>1</sup>, [Grancaric A m](#)<sup>2</sup>, [Botteri Li](#)<sup>2</sup>, [Hannache Hassane](#)<sup>3</sup>, [Cherkaoui Omar](#)<sup>1</sup>  
<sup>1</sup>Higher School of Textile and Clothing Industries, Laboratory REMTEX, Casablanca, Morocco  
<sup>2</sup>University of Zagreb, Faculty of Textile Technology, Zagreb, Croatia  
<sup>3</sup>University Hassan II, F. S. Ben M'Sik, Department of Chemistry Materials Team Thermostructural, Casablanca, Morocco
- 12-p-82      **EFFECT OF DECREASING SETTLING TIME ON CELL INTERNAL STORAGE AS POLYHYDROXYALKONATE AND GLYCOGEN**  
[Fatemeh Sadrzadeh](#)  
Istanbul Technical University
- 12-p-83      **AN EXPERIMENTAL STUDY TO DETERMINE THE EFFICIENCY OF IMPERMEABLE SOIL LAYER**  
[Uğur Boyraz](#), [Sinan Sargin](#)  
Department of Civil Engineering, Istanbul University, Istanbul, Turkey
- 12-p-84      **EVALUATION OF WATER QUALITY WITHIN THE WATERSHED OF PORSUK DAM RESERVOIR**  
[Firdes Yenilmez](#), [Ayşegül Aksoy](#)  
Department of Environmental Engineering, Middle East Technical University, Ankara, Turkey
- 12-p-85      **WATER DISTRIBUTION SPATIAL DECISION SUPPORT SYSTEM**  
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<sup>1</sup>Department of Construction, Kocaeli University, Kocaeli, Turkey  
<sup>2</sup>Department of Geomatic, Kocaeli University, Kocaeli, Turkey  
<sup>3</sup>SoftEB Software and Technology Treatment Company, Ankara, Turkey



- 12-p-86      **INTRACELLULAR CARBON STORAGE PHENOMENA OF A BIOMASS EXHIBITING IMPROVED SETTLING PROPERTIES**  
[Fatemeh Sadrzadeh](#), [Ozlem Karahan Ozgun](#), [Ebru Dulekgirgen](#)  
Istanbul Technical University, Civil Engineering Faculty, Environmental Engineering Department
- 12-p-87      **THE COMPARISON OF ULTRASOUND AND HYDROGEN PEROXIDE TREATMENT OF BULKING SLUDGE**  
[Gönül Tuğrul İçemer](#), [Y. Büşra Bayrak](#)  
Department of Environmental Engineering, Akdeniz University, Antalya, Turkey
- 12-p-88      **INVESTIGATIONS OF POLLUTANTS OF THE GROUNDWATER OF SERBIA BY CHEMOMETRIC TECHNIQUES**  
[Gordana Jovan Devic](#), [Dragana Djordjevic](#), [S. Sakan](#)  
Department of Chemistry, IChTM, University of Belgrade
- 12-p-89      **ADSORPTION OF Cu(II) FROM AQUEOUS SOLUTIONS ONTO MODIFIED MARTIL SAND: EFFECT OF ANIONS, CATIONS AND KINETIC STUDY**  
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<sup>2</sup>Faculty of Sciences, University Moulay Ismail, Meknès, Morocco  
<sup>3</sup>Faculty of Sciences, Rabat, University Mohamed V, Rabat, Morocco  
<sup>4</sup>Agronomic and Veterinary Institute, Rabat, Morocco
- 12-p-90      **STUDY OF PHENOL REMOVAL FROM AQUEOUS SOLUTION USING THE FIG LEAVES AS BIOSORBANT: MODELING BY APPLICATION OF FULL FACTORIAL DESIGN**  
[Tarek Berrama](#), [Farida Kaouah](#), [Hayet Tizi](#), [Zoubida Bendjama](#)  
Laboratory of Industrials Processes Engineering Science, University of Sciences and Technology Houari Boumediène
- 12-p-91      **REMOVAL OF COPPER FROM AQUEOUS SOLUTION BY MODIFIED MARTIL SAND: CHARACTERIZATION AND EQUILIBRIUM STUDY**  
[Khadija Ziat](#)<sup>1</sup>, [Khaled Cheikh Nebagha](#)<sup>1</sup>, [Lotfi Rghioui](#)<sup>2</sup>, [Mohamed Saidi](#)<sup>1</sup>, [Souad El Hajjaji](#)<sup>3</sup>, [Abdelmalek Dahchour](#)<sup>4</sup>  
<sup>1</sup>Faculty of Sciences and Techniques, University Abdelmalek Essaadi, Tangier, Morocco  
<sup>2</sup>Faculty of Sciences, University Moulay Ismail, Meknès, Morocco  
<sup>3</sup>Faculty of Sciences, University Mohamed V, Rabat, Morocco  
<sup>4</sup>Agronomic and Veterinary Institute, Rabat, Morocco
- 12-p-92      **PHOTOCATALYTIC REMOVAL OF PHARMACEUTICAL POLLUTANTS BY ZNO NANOPARTICLES AND AND UV LIGHT**  
[Tassalit Djilali](#)<sup>1</sup>, [Bentahar Fatiha](#)<sup>1</sup>, [Tassalit Djilali](#)<sup>2</sup>  
<sup>1</sup>Faculté de GMGP, USTHB University, Algiers, Algeria  
<sup>2</sup>Solar Equipment Development Unit, UDES, Tipaza, Algeria
- 12-p-93      **CHARACTERIZATION OF AN ALGERIAN BENTONITE AND REMOVAL OF NICKEL FROM POLLUTED EFFLUENTS**  
[Mohellebi Faroudja](#), [Haddoum Saliha](#), [Berkani Sabrina](#)  
Laboratoire Des Énergies Fossiles, Département De Génie Chimique, Ecole Nationale Polytechnique, Alger, Algérie
- 12-p-94      **PHYSICO-CHEMICAL CHARACTERIZATION OF WASTE WATERS OF THE AREA OF ANNABA (ALGERIA)**  
[Mohamed Kahoul](#), [Samir Amouri](#)  
University of Annaba - Algeria



- 12-p-95**      **COMPLEXATION OF CHROMIUM ION WITH CHITOSAN AND THEIR DERIVATIVES NANOPARTICLES AND WHISKERS**  
[Eladlani Nadia Nadia<sup>1</sup>](#), [Dahmane El Montassir El Montassir<sup>2</sup>](#), [Rhazi Mohammed Mohammed<sup>1</sup>](#), [Taourirte Moha Moha<sup>2</sup>](#)  
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<sup>2</sup>Laboratory of chemistry Bio-organique and Macromoleculaire (LCBM); Departement of chemistry, Faculty of Sciences and Technical Gueliz (FSTG), Marrakech, Morocco
- 12-p-96**      **REUSE OF TREATED WASTEWATER STATION OF SEWAGE FROM HASSI RMEL (ALGERIA)**  
[Nassira Ouslimani Terfaia<sup>1</sup>](#), [Nassima Benferrah Benferrah<sup>1</sup>](#), [Mounir Zaiti Zaiti<sup>2</sup>](#), [Mohamed Tarfaia Abadlia Abadlia<sup>3</sup>](#)  
<sup>1</sup>University M'Hmed Bougara, Boumerdes, Algeria  
<sup>2</sup>University BADJI MOKHTAR, Annaba, Algeria  
<sup>3</sup>University Saad Dahlab, Blida, Algeria
- 12-p-97**      **ENRICHMENT FACTOR IN ASSESSMENT OF RIVER SEDIMENT CONTAMINATION IN SERBIA**  
[Sanja Sakan<sup>1</sup>](#), [Gordana Devic<sup>1</sup>](#), [Dubravka Relic<sup>2</sup>](#), [Ivan Andjelkovic<sup>3</sup>](#), [Dragana Djordjevic<sup>1</sup>](#)  
<sup>1</sup>Department of Chemistry, ICTM, University of Belgrade, Belgrade, Serbia  
<sup>2</sup>Faculty of Chemistry, University of Belgrade, Belgrade, Serbia  
<sup>3</sup>Innovation Center of the Faculty of Chemistry, Belgrade, Serbia
- 12-p-98**      **HORMONES IN DRINKING WATER**  
[Josef Caslavsky](#), [Martina Remerova](#), [Zuzana Olejnickova](#), [Milada Vavrova](#)  
Institute of Chemistry and Technology of Environmental Protection, Faculty of Chemistry, Brno University of Technology, Brno, Czech Republic
- 12-p-99**      **DETERMINATION OF METHYLMERCURY IN FISH TISSUES**  
[Zuzana Olejnickova<sup>1</sup>](#), [Milada Vavrova<sup>1</sup>](#), [Zuzana Kralova<sup>2</sup>](#)  
<sup>1</sup>Institute of Chemistry and Technology of Environmental Protection, Faculty of Chemistry, Brno University of Technology, Brno, Czech Republic  
<sup>2</sup>Department of Veterinary Ecology and Environment Protection, Faculty of Veterinary Hygiene and Ecology, University of Veterinary and Pharmaceutical Sciences Brno, Brno, Czech Republic
- 12-p-100**      **TREATMENT OF DRINKING WATER USING ELECTROCOAGULATION PROCESS**  
[Hasnae Merzouki<sup>1</sup>](#), [Hafida Hanine<sup>1</sup>](#), [Zehor Ait Yacine<sup>2</sup>](#), [Brahim Lekhlif<sup>3</sup>](#)  
<sup>1</sup>Faculty of Science and Technics University Sultan Moulay Slimane  
<sup>2</sup>Faculty of Science and Technics  
<sup>3</sup>School of Travaux Public Hassania
- 12-p-101**      **DETERMINATION OF PATHOGEN MICROORGANISM LEVELS IN THE HOSPITAL LABORATORY WASTEWATERS**  
[Gökçem Çelebi](#), [Beril Akin](#)  
Department of Environmental Sciences, Gazi University, Teknikokullar, Ankara, Turkey
- 12-p-102**      **USE OF INDEX ANALYSIS APPROACH TO ASSESS SEDIMENT QUALITY: CASE OF BOUMERZOUG SUB-BASIN (ALGERIA)**  
[Leila Sahli<sup>1</sup>](#), [Fatima Zohra Afri Mehennaoui<sup>1</sup>](#), [Smail Mehennaoui<sup>2</sup>](#)  
<sup>1</sup>Laboratory of Biology and Environment, Biopôle, University of Constantine 1, Algeria  
<sup>2</sup>Laboratory of Environment, Health and Animal Production, University of Batna, Algeria

Monday, 30<sup>th</sup> September

**Conference Room A**  
**Session V A: AIR QUALITY and POLLUTION I**

- 9.00 - 9.20 **AIRBORNE INORGANIC POLLUTANTS DEPOSITED ON CONIFER NEEDLES AND BUILDING FACADES: RECONSTRUCTION OF SPATIAL AND TEMPORAL VARIATIONS OF THE IMPACT OF AN EAF STEELMAKING PLANT ON THE SURROUNDING TERRITORY**  
[Giulia Bertolotti](#), [Stefano Gialanella](#)  
Dipartimento di Ingegneria Industriale, Università degli Studi di Trento, Trento, Italy
- 9.20 - 9.40 **SCAVENGING MECHANISMS OF ATMOSPHERIC POLLUTANTS**  
[Roxani Tzimou Tsitouridou](#)  
Department of Chemical Engineering, Aristotle University, Thessaloniki, Greece
- 9.40 - 10.00 **INTEGRATED MODELLING SYSTEM TO PREDICT EXPOSURE OF OFFICE WORKERS**  
[Chrysanthi Dimitroulopoulou](#)<sup>1</sup>, [John Bartzis](#)<sup>1</sup>, [Mike Ashmore](#)<sup>2</sup>, [Nic Carlaw](#)<sup>2</sup>, [Andrew Terry](#)<sup>2</sup>  
<sup>1</sup>Mechanical Engineering Dept, University of West Macedonia, Kozani, Greece  
<sup>2</sup>University of York, York, UK
- 10.00-10.20 **EMERGING SYSTEMS, IN THE ERA OF FINANCIAL AUSTERITY, FOR MONITORING EMISSION REDUCTIONS WITH THE CAPABILITY OF QUANTIFYING ON REAL-TIME THE EXPOSURE OF CITIZENS**  
[Andreas N. Skouloudis](#)<sup>1</sup>, [David G. Rickerby](#)<sup>1</sup>, [Pavlos Kassomenos](#)<sup>2</sup>  
<sup>1</sup>Institute for Environment and Sustainability, European Commission Joint Research Centre, 21020 Ispra VA, Italy  
<sup>2</sup>University of Ioannina, Laboratory of Meteorology, GR-45110, Ioannina, Greece

10.30 - 11.00 Coffee break at Poster Room (Galata Hall)

**Session VI A: AIR QUALITY and POLLUTION II**

- 11.00 - 11.20 **HEALTHY BUILDINGS-DREAM OR REALITY?**  
[Dimitrios Kotzias](#)  
Former Official of the European Commission, Head of Unit, Joint Research Centre, Institute for Health and Consumer Protection, Ispra, Italy
- 11.20 -11.40 **ATMOSPHERIC CONDITIONS ASSOCIATED WITH HIGH AND LOW SUMMERTIME OZONE CONCENTRATIONS IN THE FREE LOWER TROPOSPHERE AND THE BOUNDARY LAYER OVER SOME EASTERN MEDITERRANEAN AIRPORTS**  
[Pavlos D Kalabokas](#)<sup>1</sup>, [Valérie Thouret](#)<sup>2</sup>, [Jean Pierre Cammas](#)<sup>2</sup>, [Andreas Volz Thomas](#)<sup>3</sup>, [Damien Boulanger](#)<sup>2</sup>, [Christos C Repapis](#)<sup>4</sup>  
<sup>1</sup>Academy of Athens, Research Center for Atmospheric Physics and Climatology, Athens, Greece  
<sup>2</sup>Laboratoire d'Aéorologie,OMP,CNRS and Université Paul Sabatier, Toulouse, France  
<sup>3</sup>Institut für Energie und Klimaforschung 8, Forschungszentrum Jülich, Germany  
<sup>4</sup>Mariolopoulos-Kanaginis Foundation for the Environmental Sciences, Athens, Greece
- 11.40 - 12.00 **AMBIENT VOCs LEVELS AND THEIR SOURCES IN TWO DIFFERENT INDUSTRIAL CITIES AND AN INDUSTRIAL TOWN IN TURKEY**  
[Mihriban Civan](#)<sup>1</sup>, [Tolga Elbir](#)<sup>2</sup>, [Remzi Seyfioğlu](#)<sup>2</sup>, [Öznur Oğuz Kuntasal](#)<sup>3</sup>, [Abdurrahman Bayram](#)<sup>2</sup>, [Güray Doğan](#)<sup>4</sup>, [Sema Yurdakul](#)<sup>4</sup>, [Ayşe Bozlaker](#)<sup>2</sup>, [Sait Sofuoğlu](#)<sup>5</sup>, [Beyhan Pekey](#)<sup>1</sup>, [Mustafa Odabaşı](#)<sup>2</sup>, [Gürdal Tuncel](#)<sup>4</sup>  
<sup>1</sup>Department of Environmental Engineering, Kocaeli University, Turkey  
<sup>2</sup>Dept. of Environmental Engineering, Dokuz Eylül University, Turkey  
<sup>3</sup>United Nations Development Programme, Ankara, Turkey  
<sup>4</sup>Middle East Technical University, Dept. of Environmental Engineering, Turkey  
<sup>5</sup>Dept. of Chemical Engineering İzmir Institute of Technology. İzmir, Turkey

- 12.00 - 12.20 **EVALUATION OF INDOOR AIR POLLUTANTS IN MODERN OFFICE BUILDINGS IN HUNGARY**  
[Rosanna Mabilia](#)<sup>1</sup>, [Tamas Szigeti](#)<sup>2</sup>, [Viktor Gabor Mihucz](#)<sup>2</sup>, [Erica Perreca](#)<sup>1</sup>, [Daniele Mastroianni](#)<sup>1</sup>

<sup>1</sup>CNR Institute for Atmospheric Pollution Research

<sup>2</sup>Cooperative Research Cent. for Env. Sciences, Eötvös Loránd University,

**12.30 - 14.00 Lunch**

### Session VII A: ECOTOXICITY

- 14.00 - 14.40 **INVITED SPEAKER**  
**SYNERGISTIC CHRONIC ECOTOXICOLOGICAL IMPACT (SCEI) OF EMERGING ENDOCRINIC POPS MIXTURES IN WWTP EFFLUENTS, SURFACE AND GROUND WATER**  
**THE "ECOTOXICOLOGICAL CONNECTION": WATER-STRESSED MEDITERRANEAN AREA PERSPECTIVE**

[Uri Zoller](#)

Faculty of Natural Sciences, Haifa University-Orani, Kiryat Tivon 36006, Israel

- 14.40 - 15.00 **STRATEGIES UNDERLYING HALIMIONE PORTULACOIDES (L.) AELLEN TOLERANCE TO ENVIRONMENTAL MERCURY EXPOSURE - ORGAN-SPECIFIC ANTIOXIDANT METABOLISM AND POLYPEPTIDE PATTERNS SIGNIFICANCE**

[Naser A Anjum](#)<sup>1</sup>, [Iqbal Ahmad](#)<sup>2</sup>, [Armando C. Duarte](#)<sup>1</sup>, [Eduarda Pereira](#)<sup>1</sup>

<sup>1</sup>CESAM-Centre for Environmental and Marine Studies & Department of Chemistry & Department of Chemistry, University of Aveiro, 3810-193 Aveiro, Portugal

<sup>2</sup>CESAM-Centre for Environmental and Marine Studies & Department of Chemistry & Department of Biology, University of Aveiro, 3810-193 Aveiro, Portugal

- 15.00 - 15.20 **THEORETICAL INVESTIGATION OF MOLECULAR PROPERTIES OF METHYL-SUBSTITUTED ANTHRACENES AND BIODEGRADATION**

[Branislav S Stankovic](#)<sup>1</sup>, [Bojana D Ostojic](#)<sup>2</sup>, [Dragana S Dordevic](#)<sup>2</sup>

<sup>1</sup>Faculty of Physical Chemistry University of Belgrade, Belgrade, Serbia

<sup>2</sup>ICTM - Centre of Chemistry, University of Belgrade, Belgrade, Serbia

**15.40 - 16.00 Coffee Break at Poster Hall**

**16.00 - 17.00**

### POSTER SESSION II (Galata Hall)

Air quality and pollution, Biodiversity and ecosystem functions, Ecological disasters, Ecotoxicity, Environment and health,  
Environmental policy and education, Impact of climate change on the environment,  
Soil pollution and control





## Session VIII A: ENVIRONMENTAL POLICY & EDUCATION

- 17.00 - 17.20 **COASTAL POLLUTION AND SEA WATER PRESERVATION: AN EVALUATION OF EDUCATIONAL EFFECTIVENESS USING FUZZY LOGIC MODELLING**  
[Nüket Sivri](#)<sup>1</sup>, [Osman Uçan](#)<sup>1</sup>, [Abdurrahim Akgündoğdu](#)<sup>1</sup>, [Nalan Linda Fraim](#)<sup>2</sup>, [Metin Çilingirtürk](#)<sup>3</sup>  
<sup>1</sup>Department of Engineering, Istanbul University, Istanbul Turkey  
<sup>2</sup>Department of Psychology, Fatih University, Istanbul Turkey  
<sup>3</sup>Department of Statistics, Marmara University, Istanbul Turkey
- 17.20 - 17.40 **ASSESSMENT OF POLICIES TO REDUCE GREENHOUSE GAS EMISSIONS AND AIR POLLUTION IN MEDITERRANEAN EU COUNTRIES**  
[Rainer Friedrich](#), [Joachim Roos](#), [Christian Schieberle](#)  
University of Stuttgart
- 17.40 - 18.00 **A SURVEY METHODOLOGY FOR A SOCIAL-ECONOMIC AND ENVIRONMENTAL CHARACTERIZATION OF INDUSTRIAL AREAS AND THE IDENTIFICATION OF BEST PRACTICES**  
[Simona Loperte](#)  
CNR-IMAA, C.da S. Loja,I-85050 Tito Scalo, Potenza Italy

**18.15 - 19.30**

**ROUND TABLE: Sustainable Tourism/Megacities**

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20<sup>30</sup>

Gala Dinner (optional)

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Monday, 30<sup>th</sup> September

**Conference Room B**  
**Session V B: ENVIRONMENT and HEALTH I**

- 8.40 - 9.20 **INVITED SPEAKER**  
[Marco Martuzzi](#), WHO
- 9.20 - 9.40 **INTERA PLATFORM: A TOOL FOR MECHANISTIC RISK ASSESSMENT OF INDOOR AIR POLLUTANTS**  
[Denis Andreas Sarigiannis](#)<sup>1</sup>, [Spyros Karakitsios](#)<sup>2</sup>, [Alberto Gotti](#)<sup>1</sup>  
<sup>1</sup>Department of Chemical Engineering, Aristotle University of Thessaloniki, 54006, Thessaloniki, Greece  
<sup>2</sup>Chemical Process and Energy Resources Institute, 6th km Harilaou Thermi Road, 57001, Thessaloniki, Greece
- 9.40 - 10.00 **MOLECULAR EXPOSOMICS: STATUS, PERSPECTIVES, AND CHALLENGES**  
[Karl Werner Schramm](#)  
German Research Center for Environmental Health
- 10.00 - 10.20 **DESERT DUST AND PUBLIC HEALTH**  
[Cemal Ahmet Saydam](#)  
Department of Environmental Engineering, Hacettepe University, Ankara, Turkey
- 10.20 - 10.40 **SOS - LUNG REGION SPECIFIC OXIDATIVE STRESS: A NOVEL EXPOSURE METRIC FOR AIRBORNE PM**  
[Denis Andreas Sarigiannis](#), [Spyros Karakitsios](#), [Marianthi Kermenidou](#), [Agni Faviola](#), [Mika Gavriilidou](#)  
Department of Chemical Engineering, Aristotle University of Thessaloniki, Thessaloniki, 54124, Greece

10.40 - 11.00 Coffee break at Poster Room (Galata Hall)

**Session VI B: ENVIRONMENT and HEALTH II**

- 11.00 - 11.20 **SPATIO/TEMPORAL VARIABILITY OF AIR POLLUTION IN INDUSTRIALIZED MEDITERRANEAN CITIES AND ITS IMPLICATIONS FOR POPULATION EXPOSURE**  
[Cristina Mangia](#)<sup>1</sup>, [Marco Cervino](#)<sup>1</sup>, [Emilio Al Gianicolo](#)<sup>2</sup>, [Antonella Bruni](#)<sup>2</sup>  
<sup>1</sup>Italian National Research Council, Institute of Atmospheric Sciences and Climate Lecce, Bologna, Italy  
<sup>2</sup>Italian National Research Council Institute of Clinical Physiology, Lecce, Italy
- 11.20 - 11.40 **PM ATTRIBUTED MORTALITY AND MORBIDITY DUE TO BIOMASS USE IN THESSALONIKI - ESTIMATION OF SOCIOECONOMIC COST**  
[Denis Andreas Sarigiannis](#), [Spyros Karakitsios](#), [Marianthi Kermenidou](#), [Roxani Tzimou](#), [Tsitouridou](#)  
Department of Chemical Engineering, Aristotle University of Thessaloniki, 54006, Thessaloniki, Greece
- 11.40 - 12.00 **PROBABILISTIC ASSESSMENT OF PESTICIDE EXPOSURE VIA INHALATION IN GREECE**  
[Denis Andreas Sarigiannis](#)<sup>1</sup>, [Periklis Kontoroupi](#)<sup>2</sup>, [Ermioni Solomou](#)<sup>2</sup>, [Spyridoula Nikolaki](#)<sup>2</sup>, [Anastasios John Karabelas](#)<sup>2</sup>  
<sup>1</sup>Department of Chemical Engineering, Aristotle University of Thessaloniki, Thessaloniki, 54124, Greece  
<sup>2</sup>Chemical Process and Energy Resources Institute, Centre for Research and Technology Hellas, Thessaloniki, 57001, Greece



12.00 - 12.20 **LIMITATION OF ESSENTIAL AMINO ACIDS AS AN EPIGENETIC ENVIRONMENTAL NUTRITIONAL FACTOR FOR HEALTH IMPROVEMENT; IN VIVO FINDINGS**

[Angelos K Sikalidis](#)<sup>1,2</sup>

<sup>1</sup> Dana-Farber Cancer Institute, Harvard Medical School, Boston, MA, USA

<sup>2</sup> Yeni Yuzyil University, Department of Nutrition & Dietetics, Istanbul, Turkey

**12.30 - 14.00 Lunch**

## **Session VII B: IMPACT OF CLIMATE CHANGE IN THE MEDITERRANEAN REGION I**

11.00 - 11.20 **CHLOROPHYLL-A VARIATIONS IN TERMS OF METEOROLOGICAL FORCING: THE RHODES GYRE AND CYCLADES REGION**

[Dionysia Kotta](#)<sup>1</sup>, [Dimitra Kitsiou](#)<sup>2</sup>

<sup>1</sup>Hellenic National Meteorological Service, Hellinikon, Greece & Dept. of Marine Sciences, School of the Environment, University of the Aegean, Lesvos, Greece

<sup>2</sup>Dept. of Marine Sciences, School of the Environment, University of the Aegean, Lesvos, Greece

11.20 - 11.40 **EVALUATION OF LAND SURFACE TEMPERATURE EFFECT IN MEGACITY ISTANBUL USING THERMAL REMOTE SENSING**

[Filiz Bektas Balcik](#)

Department of Geomatics Engineering, Istanbul Technical University, Istanbul, Turkey

11.40 - 12.00 **CLIWASEC - A RESEARCH CLUSTER ON CLIMATE CHANGE IMPACTS ON WATER AND SECURITY IN SOUTHERN EUROPE AND NEIGHBORING COUNTRIES**

[Thomas Ammerl](#)<sup>1</sup>, [Ralf Ludwig](#)<sup>2</sup>

<sup>1</sup>Bavarian Research Alliance, Munich, Germany

<sup>2</sup>Ludwig-Maximilians-Universitaet, Munich, Germany

12.00 - 12.20 **INVESTIGATION OF DROUGHT CONDITIONS IN MEDITERRANEAN REGION OF TURKEY USING REMOTELY SENSED DATA**

[Elif Sertel](#)<sup>1</sup>, [Semra Kocaaslan](#)<sup>2</sup>

<sup>1</sup>Istanbul Technical University, Geomatics Engineering Department

<sup>2</sup>Istanbul Technical University, Informatics Institute

**15.30 - 16.00 Coffee Break at Poster Hall**

**16.00 - 17.00**

### **POSTER SESSION II (Galata Hall)**

**Air quality and pollution, Biodiversity and ecosystem functions, Ecological disasters, Ecotoxicity, Environment and health, Environmental policy and education, Impact of climate change on the environment, Soil pollution and control**

## Session VIII B: SOIL POLLUTION AND CONTROL I

- 17.00 - 17.20 **RAILWAY RELATED SOIL POLLUTION: THE TURIN-LYON HIGH-SPEED RAIL CASE**  
[Massimo Zucchetti](#)<sup>1</sup>, [Marina Clerico](#)<sup>1</sup>, [Luca Giunti](#)<sup>2</sup>, [Luca Mercalli](#)<sup>3</sup>, [Alberto Poggio](#)<sup>1</sup>,  
[Angelo Tartaglia](#)<sup>1</sup>  
<sup>1</sup>Politecnico di Torino, Italy  
<sup>2</sup>HSR Technical Committee of CMVSS, Italy  
<sup>3</sup>SMI - Italian Meteorological Society
- 17.20 - 17.40 **BEHAVIOUR OF THE HERBICIDE AMINOCYCLOPYRACHLOR IN A LOAM-SILTY SOIL  
AFTER AMENDMENT WITH BIOCHARS AND ALPERUJOS**  
[Juan Cornejo](#)<sup>1</sup>, [Alegria Cabrera](#)<sup>1</sup>, [Lucia Cox](#)<sup>1</sup>, [Kurt A. Spokas](#)<sup>2</sup>, [M Carmen Hermosin](#)<sup>1</sup>,  
[William C. Koskinen](#)<sup>2</sup>  
<sup>1</sup>Department of Agrochemistry and Soil Conservation. Instituto de Recursos Naturales  
y Agrobiología de Sevilla. CSIC, Sevilla, Spain.  
<sup>2</sup>U.S. Department of Agriculture-Agricultural Research Service, St. Paul, MN 55108,  
USA.
- 17.40 - 18.00 **DEGRADATION OF LINEAR ALKYL BENZENE SULFONATE AND ITS EFFECTS ON  
AGRICULTURAL SOIL**  
[Fusun Ekmekyapar](#)<sup>1</sup>, [Dilek Okyay Celtikli](#)<sup>2</sup>  
<sup>1</sup>Department of Environmental Engineering, Namik Kemal University, Tekirdag,  
Turkey  
<sup>2</sup>Hobby Kozmetik Inc, Cerkezkoy, Tekirdag

### 18.15 - 19.30 ROUND TABLE DISCUSSION

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20<sup>30</sup>

Gala Dinner (optional)

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## POSTERS, 30.09.2013

### AIR QUALITY AND POLLUTION

- 01-p-01** SEASONAL VARIATION OF PM<sub>10</sub> AMBIENT AIR CONCENTRATION CORRELATED WITH METEOROLOGICAL PARAMETERS FOR THE CITY OF KOZANI, GREECE  
[Evangelos Ioannis Tolis](#), [John George Bartzis](#)  
Department of Mechanical Engineering, University of Western Macedonia, Kozani, Greece
- 01-p-02** LEVELS OF SUSPENDED PARTICULATE MATTER BEFORE AND AFTER THE ECONOMIC CRISIS IN THESSALONIKI, GREECE  
[Maximos J Petrakakis](#)<sup>1</sup>, [Apostolos G Kelessis](#)<sup>1</sup>, [Paraskevi Tzoumaka](#)<sup>1</sup>, [Constantini Samara](#)<sup>2</sup>  
<sup>1</sup>Environmental Department, Municipality of Thessaloniki, Pappargopoulou 7, GR-54630 Thessaloniki, Greece.  
<sup>2</sup>Aristotle University of Thessaloniki, Department of Chemistry, Environmental Pollution Control Laboratory, University Campus, GR-54124 Thessaloniki, Greece.
- 01-p-03** CHEMICAL COMPOSITION AND MASS CLOSURE OF THE COARSE PARTICLE FRACTION IN THE ATMOSPHERE OF THESSALONIKI, GREECE  
[Theodoros Grigoratos](#), [Constantini Samara](#), [Dimitra Voutsas](#), [Athanasios Kouras](#), [Evangelia Manoli](#)  
Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece
- 01-p-04** DISTRIBUTION OF VOLATILE ORGANIC COMPOUNDS IN AMBIENT AIR DURING THE DAY AND THE NIGHT REGIME OF THE URBAN AND SUBURBAN ZONE OF BELGRADE  
[Srdjan Predrag Petrovic](#)<sup>1</sup>, [Bojana Ostojic](#)<sup>2</sup>, [Aleksandar Popovic](#)<sup>3</sup>, [Dragana Djordjevic](#)<sup>2</sup>  
<sup>1</sup>ICTM - Centre of Catalysis and Chemical Engineering  
<sup>2</sup>ICTM - Centre of Chemistry  
<sup>3</sup>Faculty of Chemistry
- 01-p-05** BENZENE LEVELS IN THE ATMOSPHERE OF LARGE GREEK URBAN CENTERS  
[Apostolos G Kelessis](#)<sup>1</sup>, [Pavlos Kassomenos](#)<sup>2</sup>, [Maximos J Petrakakis](#)<sup>1</sup>, [Eirini Karakatsouli](#)<sup>3</sup>  
<sup>1</sup>Environmental Department, Municipality of Thessaloniki, Pappargopoulou 7, GR-54630 Thessaloniki, Greece  
<sup>2</sup>University of Ioannina, Department of Physics, Laboratory of Meteorology, GR-45110, Ioannina, Greece.  
<sup>3</sup>Greek Open University, Faculty of Sciences and Technology, Aristotelous 18, GR-26335, Patras, Greece
- 01-p-06** AMBIENT LEVELS OF VOCS, INCLUDING CARBONYL COMPOUNDS, AND OZONE AT CABAÑEROS NATIONAL PARK, SPAIN  
[Florentina Villanueva](#)<sup>1,2</sup>, [Araceli Tapia](#)<sup>1</sup>, [Alberto Notario](#)<sup>3</sup>, [José Albaladejo](#)<sup>3</sup>, [Ernesto Martínez](#)<sup>1</sup>  
<sup>1</sup>Laboratorio de Contaminación Atmosférica. Instituto de Investigación en Combustión y Contaminación Atmosférica, Universidad de Castilla-La Mancha, Camino de Moledores s/n, 13071 Ciudad Real (Spain).  
<sup>2</sup>Parque Científico y Tecnológico de Albacete, Paseo de la Innovación 1, 02006 Albacete (Spain)  
<sup>3</sup>Departamento de Química Física, Facultad de Ciencias Químicas, Universidad de Castilla la Mancha. Avenida Camilo José Cela s/n, 13071 Ciudad Real (Spain).
- 01-p-07** COMPARATIVE EVALUATION OF INDOOR VOC AND ALDEHYDE POLLUTION IN MODERN OFFICE BUILDINGS IN DIFFERENT EUROPEAN COUNTRIES  
[Erica Perreca](#)<sup>1</sup>, [Rosanna Mabilia](#)<sup>1</sup>, [Tamas Szigeti](#)<sup>2</sup>, [Viktor Gabor Mihucz](#)<sup>2</sup>, [Matti Peltonen](#)<sup>3</sup>, [Otto Hanninen](#)<sup>3</sup>, [John Bartzis](#)<sup>4</sup>, [Dikaia Saraga](#)<sup>4</sup>, [Ioannis Sakellaris](#)<sup>4</sup>, [Krystallia Kalimeri](#)<sup>4</sup>, [Daniele Mastroianni](#)<sup>1</sup>  
<sup>1</sup>CNR Institute for Atmospheric Pollution Research  
<sup>2</sup>Cooperative Research Center for Environmental Sciences, Eötvös Loránd University  
<sup>3</sup>National Institute for Health and Welfare (THL)  
<sup>4</sup>University of Western Macedonia Dep. of Mechanical Eng., Env. Technology Laboratory



- 01-p-08**      **AMBIENT CONCENTRATIONS AND CHEMICAL FEATURES OF PMX DUE TO THE EMISSIONS OF THE CONSUME BY THE CENTRAL HEATING BIOMASS**  
[Stelios Garas](#), [Athanasios G Triantafyllou](#), [Christos Diamantopoulos](#), [Krestou Athina](#), [Vassilis Matthaïos](#), [Vassilis Tsekouras](#)  
Laboratory of Atmospheric Pollution and Environmental Physics, Department of Geotechnology and Environmental Engineering, Technological Education Institute (TEI) of Western Macedonia, Kozani, Greece
- 01-p-09**      **A FORECASTING METEOROLOGICAL MODELLING SYSTEM FOR THE IDENTIFICATION OF THE WIND DAYS**  
[Annalisa Tanzarella](#), [Angela Morabito](#), [Micaela Menegotto](#), [Roberto Giua](#), [Giorgio Assennato](#), [Massimo Blonda](#)  
Regional Environmental Protection Agency, ARPA Puglia, Bari, Italia
- 01-p-10**      **MICRONUCLEUS TESTS IN MICE EXPOSED TO RADON EMISSIONS IN INDOOR CONDITIONS**  
[Cristiano Foschi](#)<sup>1</sup>, [Licia Radicchi](#)<sup>1</sup>, [Mauro Cristaldi](#)<sup>1</sup>, [Luisa Anna Ieradi](#)<sup>2</sup>  
<sup>1</sup>Department of Biology and Biotechnology Charles Darwin, Sapienza University, Rome, Italy  
<sup>2</sup>Institute of Ecosystem Study, CNR, Sapienza University, Rome, Italy
- 01-p-11**      **ULTRAFINE PARTICLES AND CHEMICAL RISK IN AUTOMOBILE REPAIR SHOPS**  
[Pasquale Avino](#)<sup>1</sup>, [Maurizio Manigrasso](#)<sup>1</sup>, [Patrizio Carrai](#)<sup>2</sup>, [Carolina Rocchi](#)<sup>2</sup>, [Ettore Guerriero](#)<sup>3</sup>, [Mario Vincenzo Russo](#)<sup>4</sup>  
<sup>1</sup>DIPIA, INAIL Settore Ricerca, Rome, Italy  
<sup>2</sup>Master University of Pisa, Pisa, Italy  
<sup>3</sup>IIA-CNR, Montelibretti, Italy  
<sup>4</sup>University of Molise, Campobasso, Italy
- 01-p-12**      **INDOOR/OUTDOOR AIR POLLUTANTS LEVELS AND HUMAN HEALTH: RELATIONSHIPS BETWEEN ATMOSPHERIC PARTICULATE AND RESPIRATORY DISEASES**  
[Maria Ragosta](#)<sup>1</sup>, [Mariagrazia D'emilio](#)<sup>2</sup>, [Giuseppina Anna Giorgio](#)<sup>1</sup>, [Ilaria Leli](#)<sup>3</sup>, [Ivano Salimbene](#)<sup>3</sup>, [Ornella Salimbene](#)<sup>4</sup>  
<sup>1</sup>Engineering School - University of Basilicata - Potenza - Italy  
<sup>2</sup>Institute of Methodologies for Environmental Analysis - CNR - Tito Scalo (PZ) - Italy  
<sup>3</sup>Dept. Pulmonary Medicine - A. Gemelli University Polyclinic, Sacro Cuore Catholic University - Rome - Italy  
<sup>4</sup>Dept. of Environment, Land and Infrastructure Engineering - Politecnico di Torino - Italy
- 01-p-13**      **MODELING THE DISPERSION OF POLLUTANTS FROM POINT SOURCES WITH A MICROSCALE AND A MESOSCALE MODEL DURING AN EPISODE CASE IN A COMPLEX TERRAIN AREA IN GREECE**  
[Vassilis Matthaïos](#)<sup>1</sup>, [Lakhdar Aidaoui](#)<sup>2</sup>, [Athanasios G Triantafyllou](#)<sup>1</sup>  
<sup>1</sup>Laboratory of atmospheric pollution and environmental physics, Technological Education Institute (TEI) of Western Macedonia, Kozani, Greece  
<sup>2</sup>Laboratoire Aero-Hydrodynamique Navale, Faculté de Génie Mécanique, Université des Sciences et de la Technologie d'Oran (USTO), Algeria
- 01-p-14**      **ANNUAL CARBON FOOTPRINT ESTIMATION OF A SHIP AND THE COMPARISON OF THE EMISSION AMOUNTS WITH DIFFERENT TRANSPORTATION MODES**  
[Levent Bilgili](#), [Abdullah Cay](#), [Bilkutay Yilmaz](#), [Kutsi Mert Senoz](#), [Erhan Aslantas](#), [Emre Öztürk](#), [Ugur Bugra Celebi](#)  
YTU, Yıldız Technical University
- 01-p-15**      **ENERGY EFFICIENCY OPERATIONAL INDICATOR (EEOI) CALCULATION OF SOME SHIPS AND A LIFE CYCLE ASSESSMENT (LCA) MODEL TO REDUCE THE ENVIRONMENTAL IMPACTS**  
[Levent Bilgili](#), [Ibrahim Bitikcioglu](#), [Abdulkadir Sari](#), [Sertac Gumustekin](#), [Hasan Baykal](#), [Ugur Bugra Celebi](#)  
YTU, Yıldız Technical University



- 01-p-16**      **EXAMINING GRANGER CAUSALITY BETWEEN ATMOSPHERIC PARAMETERS AND RADON EMISSIONS**  
[Giacchino Giuliani](#)<sup>1</sup>, [Massimo Zucchetti](#)<sup>2</sup>, [Giulia Fioravanti](#)<sup>3</sup>  
<sup>1</sup>Fondazione Permanente G. Giuliani “ONLUS”  
<sup>2</sup>DENERG, Politecnico di Torino  
<sup>3</sup>Department of Chemistry, Chemical Engineering and Materials, University of L’Aquila
- 01-p-17**      **MONITORING AND ASSESSMENT OF TRACE ELEMENTS IN AIR-BORN (AEROSOL) PARTICLES OVER ALEXANDRIA CITY CENTER AND ITS RURAL AREA 21 KM WEST, EGYPT**  
[Osman Abdel Mottaleb El Rayis](#)<sup>1</sup>, [Ali Mohmed Abdullah](#)<sup>2</sup>, [Fadia Ahmed Morsi](#)<sup>2</sup>  
<sup>1</sup>Oceanography Dept., Faculty of Science, University of Alexandria, Moharrem Bek 21511, Alexandria, Egypt.  
<sup>2</sup>National Institute of Oceanography and Fisheries (NIOF), Alexandria, Egypt.
- 01-p-18**      **AIR POLLUTION & ART**  
[Giulia Bertolotti](#), [Stefano Gialanella](#)  
Dipartimento di Ingegneria Industriale, Università degli Studi di Trento, Trento, Italy
- 01-p-19**      **ESTIMATING OF HOURLY ATMOSPHERIC STABILITY, MIXING HEIGHT AND DRY DEPOSITION VELOCITY**  
[Ragab El Sayed Rabeiy](#)<sup>1</sup>, [Wolfgang Busch](#)<sup>2</sup>, [Steffen Knospe](#)<sup>2</sup>  
<sup>1</sup>Department of Safety Eng., Faculty of Technical Eng., Hun, Libya  
<sup>2</sup>Institute of geotechnical engineering and mine surveying, Clausthal University of Technology, Germany
- 01-p-20**      **MECHANISTIC EXPOSURE ASSESSMENT OF TRAFFIC-ORIGINATED ULTRAFINE PM**  
[Denis Andreas Sarigiannis](#)<sup>1</sup>, [Zisis Samaras](#)<sup>2</sup>, [Elias Vouitsis](#)<sup>2</sup>, [Spyros Karakitsios](#)<sup>1</sup>  
<sup>1</sup>Department of Chemical Engineering, Aristotle University of Thessaloniki, Thessaloniki, 54124, Greece  
<sup>2</sup>Department of Mechanical Engineering, Aristotle University of Thessaloniki, University Campus, 54124 Thessaloniki, Greece
- 01-p-21**      **TEMPORAL VARIATION OF INORGANIC POLLUTANTS AT WORKING OFFICES IN METU**  
[Sema Yurdakul](#)<sup>1</sup>, [Özlem Özden](#)<sup>2</sup>, [Mihriban Civan](#)<sup>3</sup>, [Gül Ayaklı](#)<sup>1</sup>, [Güray Doğan](#)<sup>1</sup>, [Tuncay Dögeroglu](#)<sup>2</sup>, [Gürdal Tuncel](#)<sup>1</sup>  
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<sup>3</sup>Environmental Engineering Department, Kocaeli University, Kocaeli/Turkey
- 01-p-22**      **SOURCE APPORTIONMENT OF NORTHWESTERN TURKEY AEROSOLS BY EPA PMF**  
[Deniz D Genç Tokgöz](#)<sup>1,2</sup>, [Güray Doğan](#)<sup>1</sup>, [Güray Doğan](#)<sup>3</sup>, [Gürdal Tuncel](#)<sup>1</sup>  
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- 01-p-23**      **REDUCING THE ENVIRONMENTAL IMPACTS OF EMISSIONS FROM AIR CARGO TRANSPORTATION**  
[Ayfer Ergin](#)<sup>1</sup>, [Ipek Eker](#)<sup>2</sup>, [Güler Alkan](#)<sup>1</sup>  
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- 01-p-24**      **EFFECT OF THE ASPHALTING OPERATIONS ON THE VOC LOAD OF THE BURSA URBAN ATMOSPHERE**  
[Sema Yurdakul<sup>1</sup>](#), [Mihriban Civan<sup>2</sup>](#), [Gürdal Tuncel<sup>1</sup>](#)  
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- 01-p-25**      **ISOLATION OF AIRBORNE METHICILLIN-RESISTANT STAPHYLOCOCCUS AUREUS AND COAGULASE-NEGATIVE STAPHYLOCOCCI FROM AIRBORNE BACTERIA SAMPLES OF ISTANBUL**  
[Nüket Sivri<sup>1</sup>](#), [Arzu Funda Bağcıgil<sup>2</sup>](#), [Kemal Atamer<sup>2</sup>](#), [Dursun Zafer Şeker<sup>3</sup>](#), [Sevgi Güneş<sup>1</sup>](#)  
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- 01-p-26**      **COMPARISON OF EXTRACTS OF AIR AND HOUSE DUST SAMPLES APPLYING ON-LINE AND OFF-LINE SFE APPROACHES**  
[Athanasios Papadopoulos<sup>1</sup>](#), [Diamando Vlachogiannis<sup>2</sup>](#), [Athanasios Sfetsos<sup>2</sup>](#), [Miltiadis I Karayiannis<sup>3</sup>](#)  
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<sup>3</sup>University of Ioannina, Department of Chemistry, Ioannina, Greece
- 01-p-27**      **AIR QUALITY MANAGEMENT AND OPERATIONAL FORECASTING FOR THE CITY OF THESSALONIKI**  
[Moussiopoulos Nicolas<sup>1</sup>](#), [Dourous Ioannis<sup>1</sup>](#), [Chourdakis Eleftherios<sup>1</sup>](#), [Tsegas George<sup>1</sup>](#), [Nikolaou Kostas<sup>2</sup>](#)  
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<sup>2</sup>Organization of Planning and Environmental Protection of Thessaloniki, Thessaloniki, Greece
- 01-p-28**      **AIR QUALITY PROGNOSIS USING ARTIFICIAL NEURAL NETWORKS MODELING IN THE URBAN ENVIRONMENT OF VOLOS, CENTRAL GREECE**  
[Konstantinos P MOUSTRIS<sup>1</sup>](#), [George T Proias<sup>2</sup>](#), [Ioanna K Larissi<sup>3</sup>](#), [Panagiotis T Nastos<sup>4</sup>](#), [Konstantinos V Koukouletsos<sup>5</sup>](#), [Athanasios G Paliatsos<sup>5</sup>](#)  
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- 01-p-29**      **A STUDY OF HIGH PARTICULATE MATTER CONCENTRATIONS EPISODES IN THE MEGACITY OF ISTANBUL USING A FINE RESOLUTION CMAQ AIR QUALITY MODELLING SIMULATION**  
[Huseyin Ozdemir<sup>1</sup>](#), [Goksel Demir<sup>1</sup>](#), [Ulas Im<sup>2</sup>](#), [Maria Kanakidou<sup>2</sup>](#), [Eleni Katragkou<sup>3</sup>](#), [Konstantinos Markakis<sup>3</sup>](#), [Garyfalia Marougianni<sup>3</sup>](#), [Dimitris Melas<sup>3</sup>](#), [Anastasia Poupkou<sup>3</sup>](#), [Luca Pozzoli<sup>4</sup>](#), [Christina Theodosi<sup>3</sup>](#), [Alper Unal<sup>4</sup>](#)  
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**01-p-30 DERIVATION OF PM10 LEVELS USING LANDSAT 5TM IMAGES: A CASE STUDY IN IZMIR, TURKEY**

[Emre Ozelkan](#)<sup>1</sup>, [Mufittin Karaman](#)<sup>1</sup>, [Huseyin Toros](#)<sup>2</sup>, [Fatma Yazıcı](#)<sup>2</sup>

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**01-p-31 AN INVESTIGATION AND COMPARISON ON ENERGY EFFICIENCY DESIGN INDEX (EEDI) AND ENERGY EFFICIENCY OPERATIONAL INDICATOR (EEOI) OF SOME SHIPS**

[Levent Bilgili](#), [Mustafa Alvar](#), [Huseyin Elcicek](#), [Zafer Aydın](#), [Aytekin Duranay](#), [Gokhan Karaman](#), [Hakan Saral](#), [Ugur Bugra Celebi](#)

YTU, Yildiz Technical University

## BIODIVERSITY AND ECOSYSTEM FUNCTIONS

**02-p-01 BIODIVERSITY OF THE HONEYBEE POPULATIONS (APIS MELLIFERA L.) FROM ALGERIA BASED ON 14 MICROSATELLITES**

[Ayad Loucif Wahida](#)<sup>1</sup>, [Achou Mohamed](#)<sup>2</sup>, [Aribi Nadia](#)<sup>2</sup>, [Soltani Noureddine](#)<sup>2</sup>, [Garnery Lionel](#)<sup>3</sup>

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**02-p-02 DETERMINATION OF THE CULTIVATED AGRICULTURAL AREAS USING MULTITEMPORAL LANDSAT TM IMAGES**

[Ugur Alganci](#)<sup>1</sup>, [Elif Sertel](#)<sup>2</sup>, [Sinasi Kaya](#)<sup>2</sup>

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**02-p-03 ANALYSIS OF DIFFERENT REMOTE SENSING VEGETATION INDICES FOR IGNEADA LONGOS FOREST MAPPING**

[Filiz Bektas Balcik](#)<sup>1</sup>, [Cigdem Goksel](#)<sup>1</sup>, [Hayriye Esbah Tuncay](#)<sup>2</sup>, [Gonca Bozkaya](#)<sup>1</sup>, [Ahmet Ozgur Dogru](#)<sup>1</sup>, [Necla Ulugtekin](#)<sup>1</sup>, [Seval Sözen](#)<sup>1</sup>

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**02-p-04 MACROFAUNA DIVERSITY OF FORESTS TAMALOUS (SKIKDA) AND BAINEM (NORTHERN ALGERIA)**

[Mounia Baha](#)<sup>1</sup>, [Belkacem Sekhara](#)<sup>2</sup>

Ecole Normale Supérieure De Kouba, Algier

**02-p-05 REPRODUCTIVE BIOLOGY OF NEREIS FALSA (ANNELIDA, POLYCHAETA) IN EL -KALA REGION (ALGERIA)**

[Snani Meriem](#)<sup>1</sup>, [Gasmi Hind](#)<sup>1</sup>, [Maamcha Ouided](#)<sup>1</sup>, [Daas Tarek](#)<sup>1</sup>, [Scaps Patrick](#)<sup>2</sup>

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**02-p-06 ESTIMATION OF EROSION IN RIVER ZGOŠCA OROGRAPHIC WATERSHED IN CENTRAL BOSNIA**

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- 02-p-07      **COMPARISON OF WILD AND CULTIVATED FORM OF MOUNTAIN TEA (SIDERITIS STRICTA), REGARDING THEIR ECOLOGICAL, ANATOMICAL, MORFOLOGICAL AND VOLATILE OIL PROPERTIES**  
[Canan Dülgeroğlu](#), [Orhan Ünal](#)  
Department of Biology, Akdeniz University, Antalya, Turkey
- 02-p-08      **GENETIC CHARACTERIZATION OF HONEY BEE (APIS MELLIFERA) POPULATIONS IN ALGÉRIA**  
[Achou Mohamed Achou<sup>1</sup>](#), [Ayad Wahida Loucif<sup>1</sup>](#), [Legout Hélène Legout<sup>2</sup>](#), [Garnery Lionel Garnery<sup>2</sup>](#)  
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<sup>2</sup>CNRS Gif sur Yvette Paris (France)
- 02-p-09      **TINTINNID (PROTOZOA: CILIOPHORA) SPECIES IN THE GULF OF GEMLIK AND SOME ECOLOGICAL PROPERTIES OF THE ENVIRONMENT**  
[Turgay Durmuş<sup>1</sup>](#), [Neslihan Balkis<sup>2</sup>](#)  
<sup>1</sup>Institute of Science, Istanbul University, 34134, Vezneciler, Istanbul, Turkey  
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- 02-p-10      **CHANGES IN PHYTOPLANKTON COMMUNITY STRUCTURE IN THE GULF OF BANDIRMA, MARMARA SEA IN 2006-2008**  
[Neslihan Balkis](#), [Benin Toklu Alicli](#)  
Department of Biology, Faculty of Science, Istanbul University
- 02-p-11      **EFFECTS OF ENVIRONMENTAL POLLUTION ON MORPHOLOGICAL, NUTRITIONAL TRAITS AND PHOTOSYNTHETIC PERFORMANCES OF OLIVE (OLEA EUROPAEA L.) AND FIG (FICUS CARICA L.) TREES**  
[Radhia Fourati<sup>1</sup>](#), [Chedlia Ben Ahmad<sup>2</sup>](#), [Imed Mezghani<sup>1</sup>](#), [Ferjani Ben Abdallah<sup>1</sup>](#)  
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<sup>2</sup>Laboratory of Improvement of the Productivity of the Olive and Fruit Trees, Institute of Olive Tree in Sfax, Tunisia
- 02-p-12      **THE SEASONAL CHANGES OF ZOOPLANKTON IN GULF OF ERDEK, MARMARA SEA**  
[Benin Toklu Aliçtı<sup>1</sup>](#), [Neslihan Balkis<sup>1</sup>](#), [Muharrem Balcı<sup>2</sup>](#)  
<sup>1</sup>Istanbul University, Faculty of Science, Department of Biology, Istanbul, Turkey  
<sup>2</sup>Istanbul University, Institute of Science, Vezneciler, Istanbul, Turkey
- 02-p-13      **TEMPORAL IMPACT OF URBANIZATION ON THE PROTECTION ZONES OF TWO DRINKING WATER RESERVOIRS IN ISTANBUL**  
[Şinasi Kaya](#), [Dursun Zafer Şeker](#), [Aysegul Tanik](#)  
ITU Faculty of Civil Engineering
- 02-p-14      **ASSESSMENT OF THYME REDUCTION USING MULTITEMPORAL SATELLITE SENSOR DATA AND IN-SITU SPECTRORADIOMETRIC MEASUREMENT: ALTIOLUK PLATEAU, IZMIT-TURKEY**  
[Cankut Dagdal Ince<sup>1</sup>](#), [Emre Ozelkan<sup>2</sup>](#), [Sinasi Kaya<sup>3</sup>](#)  
<sup>1</sup>Kocaeli University, Department of Survey Engineering  
<sup>2</sup>ITU Center For Satellite Communications & Remote Sensing  
<sup>3</sup>ITU Faculty of Civil Engineering, Department Of Geometrics
- 02-p-15      **GRAPEWINE VARIETIES DISTRIBUTION IN THE CULTIVATION AREA OF RAHOVEC, KOSOVO AND THEIR IMPACT ON DIFFERENT ENVIRONMENTAL PARAMETERS**  
[Ylber Bajraktari](#), [Ariola Bacu](#)  
Department of Biotechnology, University of Tirana, Albania



- 02-p-16**      **SEASONAL COMPARATIVE STUDY OF MACROZOOBENTHOS OF THE ROCKY AREAS OF THE ADRIATIC SEA IN ALBANIA**  
[Stela Ruci<sup>1</sup>](#), [Denada Kasemi<sup>2</sup>](#), [Sajmir Beqiraj<sup>3</sup>](#)  
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<sup>3</sup>Biology Department, Faculty of Natural Sciences, University of Tirana, Albania
- 02-p-17**      **DATA ON MACROZOOBENTHOS OF ROCKY COAST OF NIMFA, VLORA BAY, ALBANIA**  
[Denada Kasemi<sup>1</sup>](#), [Stela Ruci<sup>2</sup>](#), [Sajmir Beqiraj<sup>2</sup>](#)  
<sup>1</sup>Department of Biology, Faculty of Technical Sciences, University "Ismail Qemali" of Vlora, Albania.  
<sup>2</sup>Department of Biology, Faculty of Natural Sciences, University of Tirana, Albania.
- 02-p-18**      **MICROBIOLOGICAL INDICATORS TO EVALUATE ECOSYSTEM SOIL QUALITY AND ITS CHANGES IN DIVERSITY AND FUNCTIONING**  
[Valeria Ancona<sup>1</sup>](#), [Anna Barra Caracciolo<sup>2</sup>](#), [Martina Di Lenola<sup>2</sup>](#), [Paola Grenni<sup>2</sup>](#), [Vito Felice Uricchio<sup>1</sup>](#), [Angelantonio Calabrese<sup>1</sup>](#)  
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- 02-p-19**      **THE REPETITIVE DNA OF BRYOPHYTES, A NEW, DIFFERENT AND EARLIER KIND OF BIOINDICATOR**  
[Paola Bassi<sup>1</sup>](#), [Marina Ferraro<sup>2</sup>](#), [Adriana Basile<sup>3</sup>](#)  
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- 02-p-20**      **GROWTH STIMULATING EFFECTS OF BLUE LEDS ON INDOOR CULTIVATION OF MARINE AND FRESHWATER GREEN ALGAE**  
[Marina Mingazzini](#), [M.t. Palumbo](#), [Aikaterina Kademoglou](#)  
Water Research Institute IRSA, CNR, Brugherio (MB), Italy

## ECOLOGICAL DISASTERS

- 03-p-01**      **REHABILITATION OF METHODS USED FOR ASSESSING EXTREME FLOODS TO CLIMATE CHANGE IN MOROCCO**  
[Jihane Ahattab<sup>1</sup>](#), [Najat Serhir<sup>2</sup>](#), [El Khadir Lakhel<sup>1</sup>](#), [Abdallah Mkhadri<sup>3</sup>](#)  
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- 03-p-02**      **MONITORING AND MAPPING OF FLOODED AREAS USING INTERFEROMETRIC SYNTHETIC APERTURE RADAR**  
[Şeyhmus Direk](#)  
Department of Informatics, ITU, Istanbul, Turkey
- 03-p-03**      **CALCULATION OF STREAM WATER VELOCITY AND FLOOD RISK USING NUMERICAL MODEL- A CASE STUDY FROM FIFYOS RIVER**  
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ITU, Civil Engineering Faculty
- 03-p-04**      **CS-137 CONTAMINATION IN WILD BOARS IN SESIA VALLEY, ITALY**  
[Massimo Zucchetti](#)  
Politecnico di Torino
- 03-p-05**      **ITALIAN FOUNDRY CONTAMINATION DUE TO CS-137**  
[Massimo Zucchetti](#)  
Politecnico di Torino, Italy

## ECOTOXICITY

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[Olga Chalkiadaki](#)<sup>1</sup>, [Manos Dassenakis](#)<sup>2</sup>, [Nikos Lydakis Simantiris](#)<sup>1</sup>  
<sup>1</sup>Technological Education Institution of Crete  
<sup>2</sup>National and Kapodistrian University of Athens
- 04-p-02**      **CONTAMINATION OF IRRIGATION WATER BY CYANOTOXINS; EFFECTS ON VICIA FABARHIZOBIA SYMBIOSIS, AND RESEARCH OF RHIZOBIA TOLERANT TO CYANOTOXINS TO IMPROVE CROP YIELD**  
[Majida Lahrouni](#)<sup>1</sup>, [Khalid Oufdou](#)<sup>1</sup>, [Fatima El Khalloufi](#)<sup>1</sup>, [Mohamed Baz](#)<sup>1</sup>, [Alejandro Lafuente](#)<sup>2</sup>, [Mohammed Dary](#)<sup>2</sup>, [Eloisa Pajuelo](#)<sup>2</sup>, [Brahim Oudra](#)<sup>1</sup>  
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- 04-p-03**      **APPLICATION OF TOXICITY TEST BATTERY INTEGRATED INDEX (TBI) FOR A FIRST SCREENING OF THE ECOTOXOLOGICAL THREAT POSED BY PORTS AND HARBOURS IN THE SOUTHERN ADRIATIC SEA (ITALY)**  
[Sonia Manzo](#)<sup>1</sup>, [Simona Schiavo](#)<sup>2</sup>  
<sup>1</sup>ENEA  
<sup>2</sup>University of Naples Federicoll
- 04-p-04**      **COMPARATIVE TOXICITY ASSESSMENT OF LEATHER TANNING CHEMICALS TO FOUR BIOASSAYS**  
[Egemen Aydin](#)<sup>1</sup>, [Giusy Lofrano](#)<sup>2</sup>, [Marco Guida](#)<sup>3</sup>, [Sureyya Meric Pagano](#)<sup>4</sup>  
<sup>1</sup>Istanbul Technical University, Istanbul, Turkey  
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<sup>3</sup>University of Naples Federico II, Naples, Italy  
<sup>4</sup>Namik Kemal University, Tekirdag, Turkey
- 04-p-05**      **BIOACCUMULATION AND DEPURATION MODELLING OF DIFFERENT RING PAHS IN MYTILUS GALLOPROVINCIALIS AND APPLICATION OF SELECTED BIOMARKERS**  
[Sevil Deniz Yakan Dündar](#)<sup>1</sup>, [Jörg Klasmeier](#)<sup>2</sup>, [Andreas Focks](#)<sup>3</sup>, [Bernhard Henkelmann](#)<sup>4</sup>, [Karl Werner Schramm](#)<sup>4</sup>, [Oya S Okay](#)<sup>1</sup>  
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<sup>3</sup>Department of Aquatic Ecology and Water Quality Management, Wageningen University, Netherlands  
<sup>4</sup>Molecular Exposomics (MEX), Helmholtz Zentrum München, Neuherberg, Germany
- 04-p-06**      **THE HERB TARAXACUM OFFICINALE HAS REDUCED INTOXICATION IN FEMALE RATS EXPOSED TO PB CONTAMINATED DIET**  
[Quarda Bentayeb Mansouri](#)<sup>1</sup>, [Cherif Abdennour](#)  
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- 04-p-07**      **ASSESSMENT OF GENOTOXIC IMPACT OF FUNGICIDES ON THE POPULATION OF MOSQUITOFICH GAMBUSIA AFFINIS USING THE MICRONUCLEUS TEST**  
[Bourenane Bouhafis Naziha](#)<sup>1</sup>, [Devaux. Alain](#)<sup>1</sup>, [Zouania Sabrina](#)<sup>2</sup>, [Berrebeh Djebbar Houria](#)<sup>3</sup>  
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- 04-p-08**      **COMPARATIVE STUDY ON TOXIC METALS (Hg, Cd, Pb AND As) IN TWO TORPEDINID SPECIES LIVER FROM THE MEDITERRANEAN SEA**  
[Mariamaddalena Storelli<sup>1</sup>](#), [Arianna Storelli<sup>1</sup>](#), [Grazia Barone<sup>1</sup>](#), [Roberto Giacomini<sup>1</sup>](#), [Stuffer<sup>2</sup>](#)  
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<sup>2</sup>Comparative Biomedical Sciences Department, Biochemistry and molecular Biology Section, University of Teramo, Teramo, Italy
- 04-p-09**      **DETERMINATION OF LD50 AND SIDE EFFECT OF SPINOSAD IN ADULT ALGERIAN HONEY BEES**  
[Ayad Loucif Wahida<sup>1</sup>](#), [Bouchema Wided Fella<sup>2</sup>](#), [Menail Ahmed Hichem<sup>2</sup>](#), [Soltani Nouredine<sup>2</sup>](#)  
<sup>1</sup>Faculty of Medicine, University of Annaba, Algeria  
<sup>2</sup>Laboratory of Applied Animal Biology, Department of Biology, Faculty of Science, University of Annaba, Algeria.
- 04-p-10**      **THE MOLECULAR PROPERTIES OF TRIMETHYLNAPHTHALENES AND PREDICTION OF THEIR BIODEGRADATION RATES**  
[Bojana D Ostojic](#), [Dragana S Dordevic](#)  
ICTM - Centre of Chemistry, University of Belgrade, Studentski trg 14-16, 11000 Belgrade, Serbia
- 04-p-11**      **Pb AND Cr ASSESSMENT OF SEDIMENT CONTAMINATION IN BOUMERZOUG WADI (N-E ALGERIA) AND THEIR TRANSFER TO SUBAQUATIC PLANT SPINACIA OLEACERA**  
[Fatima Zohra Afri Mehennaoui<sup>1</sup>](#), [Ahlem Inouri<sup>1</sup>](#), [Leila Sahli<sup>1</sup>](#), [Smail Mehennaoui<sup>2</sup>](#)  
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<sup>2</sup>Laboratoire Environnement, Santé et Production Animale, Université de Batna, 05000, ALGERIE
- 04-p-12**      **NEUROTOXIC ASPECT OF TWO SPECIES OF POLYCHAETA FROM EAST COAST OF ALGERIA DURING THE BREEDING SEASON**  
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- 04-p-14**      **MYTILUS GALLOPROVINCIALIS, CALLISTA CHIONE AND VENUS VERRUCOSA BEHAVIOR IN SEAWATER HEAVILY POLLUTED WITH NICKEL**  
[Olga Chalkiadaki<sup>1</sup>](#), [George Stathakis<sup>1</sup>](#), [Manos Dassenakis<sup>2</sup>](#), [Nikos Lydakis Simantiris<sup>1</sup>](#)  
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Faculty of Chemistry, Brno University of Technology



- 04-p-16** **BIOMONITORING OF WATER QUALITY BENI HAROUN DAM BY USE OF BIOMARKERS OF STRESS IN THE SPECIES CYPRINUS CARPIO**  
[Habila Safia<sup>1</sup>](#), [Leghouchi Essaid<sup>1</sup>](#), [Khelili Smail<sup>2</sup>](#)  
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- 04-p-17** **TOXIC EFFECTS OF VARIOUS METAL OXIDE NANOPARTICULES ON EUKARIOTIC AND PROKARIOTIC CELL ACTIVITY IN AQUATIC ECOSYSTEMS**  
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Environmental Engineering Department of Hacettepe University, Ankara, Turkey
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- 04-p-19** **CONCENTRATION OF CADMIUM IN THE LIVER AND KIDNEYS OF WILD AND FARM BROWN HARE**  
[Hakan Sert](#)  
Department of Elementary Education, Akdeniz University, Antalya, Turkey
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- 04-p-21** **THE NANOTOXIC EFFECTS OF METAL OXIDE NANOPARTICLES ON E. COLI**  
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<sup>2</sup>Yeditepe University, Faculty of Engineering, Dept. of Genetics and Bioengineering  
<sup>3</sup>Hacettepe University, Faculty of Science, Chemistry Dept.
- 04-p-22** **ANTIMONY AND ARSENIC ACCUMULATION AND OXIDATIVE STATUS IN SHOOTS AND ROOTS OF TWO PLANT SPECIES (HEDYSARUM PALLIDUM DESF. AND LYGEUM SPARTUM L.)**  
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## ENVIRONMENT AND HEALTH

- 06-p-01** **OPTIMISATION OF THE EMULSION FORMULATION WATER IN OIL**  
[Rachida Chemini<sup>1</sup>](#), [Samir Benkhaled<sup>2</sup>](#), [Fatiha Bentahar<sup>1</sup>](#)  
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- 06-p-02**      **CARCINOGENICITY RISK OF PAHS IN PARTICULATE MATTER**  
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- 06-p-03**      **A TIERED APPROACH FOR AGGREGATE EXPOSURE ASSESSMENT: THE CASE OF BISPHENOL-A**  
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Chemical Process Engineering Research Institute, 6th km Harilaou Thermi Road, 57001, Thessaloniki, Greece
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- 06-p-05**      **EPIDEMIC SITUATION AND HUMAN-ENVIRONMENT FACTORS CONDITIONING THE EMERGENCE OF CUTANEOUS LEISHMANIASIS IN MOROCCO**  
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- 06-p-06**      **NEW TECHNIQUES IN ENVIRONMENTAL MONITORING: THE USING CAPACITY OF CARBON FIBER ELECTRODES IN DNA BIOSENSORS FOR MICROBIAL IDENTIFICATION**  
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- 06-p-07**      **EPIDEMIOLOGIC FEATURES OF CUTANEOUS LEISHMANIASIS IN FOUJ JAMÂA (AZILAL, MOROCCO)**  
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- 06-p-08**      **HEAT STRESS CONDITIONS IN THE GREEK TERRITORY WITHIN THE WARM PERIOD OF THE YEAR**  
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- 06-p-09**      **CHARACTERIZATION OF NUTRITIONAL AND ANTIOXIDANT STATUS OF CHEMLALI ADULT OLIVE TREE GROWN IN A FLUORIDE POLLUTED ZONE IN AN ARID REGION IN THE SOUTH OF TUNISIA**  
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- 06-p-10**      **IS EXOGENOUS PROLINE SUPPLEMENT SUITABLE FOR IMPROVING OLIVE TOLERANCE TO NACL SALINITY: A COMPARATIVE STUDY OF ANTIOXIDANT DEFENSE SYSTEM OF TWO YOUNG OLIVE CULTIVARS GROWN UNDER ARID CLIMATE IN TUNISIA?**  
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- 06-p-11**      **THE TOXICOLOGICAL EFFECTS OF FERTILIZER NPK IN THE HEALTH OF WORKERS IN THE PETROCHEMICAL COMPLEX FERTIAL**  
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- 06-p-12**      **THE HARMFUL EFFECTS OF LEAD ON THE REPRODUCTION AND SOME PHYSIOLOGICAL PARAMETERS IN WORKERS MANUFACTURING OF ACCUMULATORS**  
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- 06-p-13**      **APPLICATION OF ELECTRICALLY HEATED QUARTZ TUBE TO ATOMIC SPECTROMETRIC ANALYSIS OF ARSENIC SPECIES IN AMBIENT AIR**  
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<sup>1</sup>Faculty of Engineering, Isfahan University  
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- 06-p-14**      **LEVELS AND TEMPORAL TRENDS OF ORGANOCHLORINE COMPOUNDS IN MARINE ORGANISMS FROM GREEK WATERS**  
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- 06-p-18**      **VALORIZATION OF ULVA LACTUCA BIOMASS TYPES IN THE RECOVERY OF CHROMIUM (VI) IONS**  
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- 06-p-21**      **KINETIC SUDY OF MAJOR COMPONENTS AND ANTIMICROBIAL ACTIVITY OF THE ESSENTIAL OIL FROM LEAVES OF INULA VISCOSA (L.) GRUEUTER**  
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- 06-p-22**      **COMPOSITION AND ANTIMICROBIAL ACTIVITY OF VOLATILE ISOLATES FROM LEAVES AND STEMS OF INULA VISCOSA (L.) GRUEUTER**  
[Zouaghi Nafila](#)<sup>1</sup>, [Bellal Cherifa](#)<sup>1</sup>, [Cavaleiro Carlos](#)<sup>2</sup>, [Nadjemi Boubakeur](#)<sup>1</sup>, [Yousfi Mohamed](#)<sup>3</sup>  
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- 06-p-23**      **NUMERICAL MODELING OF IRON TRANSPORT CARRIED BY MINERAL DUST**  
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- 06-p-24**      **MELANIN PRODUCING FUNGI AND THEIR ROLE IN DETERIORATION OF MONUMENTS**  
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Manavgat Vocational School, Akdeniz University, Manavgat, Antalya



- 06-p-25      **CONTINUOUS DETERMINATION OF PAHS IN URBAN AIR BY SFE-HPLC-GC DURING AN INVERSION CONDITION**  
[Sayed Pouria Talebi](#)<sup>1</sup>, [Sayed Morteza Talebi](#)<sup>2</sup>  
<sup>1</sup>Faculty of Science, Isfahan University, Iran  
<sup>2</sup>Faculty of Engineering, Isfahan University, Iran
- 06-p-26      **THE MODULATOR ROLE OF DIETHYLDITHIOCARBAMATE IN RADIATION-INDUCED BIOLOGICAL HAZARDS**  
[Enas Mahmoud Moustafa](#)  
Atomic Energy Authority
- 06-p-27      **EFFECTS OF XENOBIOTICS ON THYROID STIMULATING HORMONE (TSH) ACTIVITY AND SYNTHESIS**  
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Division of Toxicology, Wageningen University and Research Centre, Wageningen, the Netherlands
- 06-p-28      **EFFECT OF ENVIRONMENTAL FACTORS ON THE HEARING OF CHILDREN AND ADULTS**  
[Sanae Batoui](#)<sup>1</sup>, [Khalid Habbari](#)<sup>2</sup>, [Mustafa Hasnaoui](#)<sup>3</sup>  
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- 06-p-29      **USE OF THIRD GENERATION IONIC SOLVENTS AS “GREEN” MEDIA FOR BIOCATALYTIC PROCESSES**  
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- 06-p-30      **EVALUATION OF THE PERFORMANCE OF AN AUTOMATED CELL COUNTING PIPETTE VERSUS TRYPAN BLUE EXCLUSION**  
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- 06-p-31      **CHILDHOOD ASTHMA AND POLLUTION**  
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- 06-p-32      **FORMATION AND ANALYSIS OF WELDING FUME IN PIPE-LINE WELDING AND ITS EFFECT ON WORKER'S HEALTH AND ENVIRONMENT**  
[Tolga Mert](#)<sup>1</sup>, [Ugur Bugra Celebi](#)<sup>2</sup>, [Levent Kuzu](#)<sup>3</sup>  
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- 06-p-33**      **INVESTIGATION OF POLLUTION FROM WELDING FUME AND WORKER EXPOSURE IN TURKISH SHIPYARDS**  
[Tolga Mert](#)<sup>1</sup>, [Levent Kuzu](#)<sup>2</sup>, [Ugur Bugra Celebi](#)<sup>3</sup>, [Levent Bilgili](#)<sup>3</sup>  
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- 06-p-34**      **NOISE EXPOSURE AND HEALTH IN POPULATION IN ITALY**  
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<sup>4</sup>Unit of Epidemiology, LHU-4 Turin  
<sup>5</sup>Unit of Epidemiology, LHU Varese  
<sup>6</sup>Public Health and Population Studies Lab.- Dept. of Molecular Medicine, Padua University
- 06-p-35**      **URBAN TRANSFORMATION IN TURKEY; DEVELOPMENT OF URBAN TRANSFORMATION WITH EUROPEAN EXAMPLES, EXAMPLE OF AYAZMA-TEPEUSTU**  
[Öykü Hun](#), [Hakan Denli](#)  
ITU, Civil Engineering Faculty, Department of Geomatics Engineering
- 06-p-36**      **THE SEASONAL CHANGES IN THE CONCENTRATION OF ARSENIC, MANGANESE, IRON AND LEAD IN BÜYÜKÇEKMECE LAKE**  
**59**      [Esin Bozkurt](#)<sup>1</sup>, [Ülkü Şahin](#)<sup>2</sup>, [Serap Şahin](#)<sup>2</sup>  
<sup>1</sup>Department of Environmental Engineering, Marmara University, Istanbul, Turkey  
<sup>2</sup>Department of Environmental Engineering, Istanbul University, Istanbul, Turkey

## ENVIRONMENTAL POLICY AND EDUCATION

- 07-p-01**      **WATER RESOURCES IN THE MIDDLE EAST: PROPOSALS FOR SUSTAINABLE DEVELOPMENT OF THE REGION**  
[Tamer Atabarut](#)<sup>1</sup>, [Bülent Topkaya](#)<sup>2</sup>  
<sup>1</sup>Boğaziçi University, BUYEM, Istanbul, Turkey  
<sup>2</sup>Department of Environmental Engineering, Akdeniz University, Antalya, Turkey
- 07-p-02**      **SPATIAL MULTI-CRITERIA DECISION ANALYSIS: A SPATIAL APPROACH FOR NEWLY INTRODUCED ROUTES**  
[Dogukan Toraman](#), [Hande Demirel](#)  
Istanbul Technical University, Geomatics Engineering
- 07-p-03**      **IMPACT OF THE RAPID URBANIZATION TO THE MORPHOLOGY OF HISTORICAL ISTANBUL**  
[Cemal Özgür Kivilcim](#)<sup>1</sup>, [Zaide Duran](#)<sup>2</sup>  
<sup>1</sup>Department of Projects, Istanbul Metropolitan Municipality, Istanbul, Turkey  
<sup>2</sup>Department of Geomatic Engineering, Istanbul Technical University, Istanbul, Turkey
- 07-p-04**      **DESIGNING A PARCEL-BASED QUERY SYSTEM FOR RESERVOIR WATERSHEDS OF ISTANBUL, TURKEY**  
[Mustafa Oğurlu](#)<sup>1</sup>, [Bülent Bayram](#)<sup>2</sup>, [Dursun Zafer Şeker](#)<sup>3</sup>  
<sup>1</sup>Department of GIS, Istanbul Water and Sewerage Administration, Istanbul, Turkey  
<sup>2</sup>Department of Geomatics Engineering, Yildiz Technical University, Istanbul, Turkey  
<sup>3</sup>Department of Geomatics Engineering, Istanbul Technical University, Istanbul, Turkey
- 07-p-05**      **ECO-EFFICIENCY ANALYSES OF INDUSTRIAL SYSTEM IN ALGERIA**  
[Tireche Sihem](#), [Tairi Abdelaziz](#)  
University of Boumerdes Algeria



## IMPACT OF CLIMATE CHANGE IN THE MEDITERRANEAN REGION

- 08-p-01**      **MULTISITE MODELING AND PREDICTION OF ANNUAL AND MONTHLY PRECIPITATION RECORDS IN THE CHELIF WATERSHED -ALGERIA-**  
[Harkat Samra](#)<sup>1</sup>, [Boukharouba Khadidja](#)<sup>2</sup>, [Douaoui Abd El Kadder](#) (aek)<sup>3</sup>  
<sup>1</sup>Department Hydraulics, National School of Hydraulics, Blida, Algeria  
<sup>2</sup>Research Laboratory Sciences Water-LRS-UAE, National School polytechnic, Algeria  
<sup>3</sup>Department Pedology, University Khemis Miliana, Ain Defa, Algeria
- 08-p-02**      **IN CLOUD ALTERATIONS OF DESERT DUST AND ITS IMPACT ON MEDITERRANEAN SEA**  
[Cemal Ahmet Saydam](#), [Amir Hadjialighandi](#)  
Hacettepe University, Dept. of Environmental Engineering, Ankara
- 08-p-03**      **CROP RESPONSE TO ABIOTIC STRESSES DUE TO TRANSIENT ELEVATION OF ATMOSPHERIC CO<sub>2</sub> CONCENTRATION UNDER CLIMATE CHANGE SCENARIO**  
[Nanak Singh Pasricha](#)  
Department of Soil Science, Potash Research Institute of India
- 08-p-04**      **ENVIRONMENTAL CONDITIONS THAT EFFECT GREENHOUSE GAS EMISSIONS FIN SHALLOW EUTROPHIC LAKE**  
[Ezgi Öğün](#)<sup>1</sup>, [Ayşegül Aksoy](#)<sup>2</sup>, [Selim L Sanin](#)<sup>1</sup>  
<sup>1</sup>Department of Environmental Engineering, Hacettepe University, Ankara, Turkey  
<sup>2</sup>Department of Environmental Engineering, Middle East Technical University, Ankara, Turkey
- 08-p-05**      **EFFECT OF CLIMATIC CHANGE ON GUZELYALI LANDSLIDES, NW CANAKKALE, TURKEY**  
[Ramazan Cuneyt Erenoglu](#)<sup>1</sup>, [Ozgun Akcay](#)<sup>1</sup>, [Oya Erenoğlu](#)<sup>2</sup>, [Dursun Zafer Şeker](#)<sup>3</sup>  
<sup>1</sup>Department of Geomatics Engineering, Canakkale Onsekiz Mart University  
<sup>2</sup>Department of Geology Engineering, Canakkale Onsekiz Mart University  
<sup>3</sup>Department of Geomatics Engineering, Istanbul Technical University
- 08-p-06**      **SUPPORT FOR EU FUNDRAISING IN THE FIELD OF ENVIRONMENT & ENERGY - BAYFOR, MUNICH (GERMANY)**  
[Thomas Ammerl](#), [Andrea Reiter](#), [Andreas Blume](#), [Jan Franke](#), [Marcus Kratschke](#), [Cornelia Baumann](#)  
Bavarian Research Alliance (BayFOR), Munich, Germany
- 08-p-07**      **LONG-TERM PRECIPITATION AND TEMPERATURE ANALYSIS IN BUYUK MENDERES WATERSHED, TURKEY**  
[Gökhan Cüceloğlu](#)<sup>1</sup>, [Izzet Öztürk](#)<sup>1</sup>, [Dursun Zafer Şeker](#)<sup>2</sup>, [Ayşegül Tanık](#)<sup>1</sup>  
<sup>1</sup>Department of Environmental Engineering, Istanbul Technical University, Istanbul, Turkey  
<sup>2</sup>Department of Geomatics Engineering, Istanbul Technical University, Istanbul, Turkey
- 08-p-08**      **IMPACT OF CLIMATE CHANGE ON AGRICULTURE LAND IN NILE DELTA USING REMOTE SENSING AND GIS**  
[Mohamed Said Abuhashim](#)<sup>1</sup>, [Abdel Aziz Belal](#)<sup>2</sup>, [El Sayed Mohamed](#)<sup>2</sup>, [Ahmed Moused](#)<sup>2</sup>  
<sup>1</sup>Soil Science Dept., Zagazig University, Zagazig, Egypt  
<sup>2</sup>National Authority for Remote Sensing and Space Sciences (NARSS), Cairo, Egypt
- 08-p-09**      **EFFECTS OF CLIMATIC CONDITIONS ON PHYSIC-CHEMICAL CHARACTERISTICS OF A SANDY SOIL IRRIGATED WITH SALINE WATER IN ARID REGION IN TUNISIA**  
[Chedlia Ben Ahmed](#)<sup>1</sup>, [Mohamed Zouari](#)<sup>1</sup>, [Radhia Fourati](#)<sup>1</sup>, [Bechir Ben Rouina](#)<sup>2</sup>, [Makki Boukhriss](#)<sup>1</sup>, [Ferjani Ben Abdullah](#)<sup>1</sup>  
<sup>1</sup>Department of Life Sciences, Faculty of Sciences of Sfax, Tunisia  
<sup>2</sup>Olive Tree Institute, Sfax, Tunisia



- 08-p-10**      **POTENTIAL IMPACTS OF SEA LEVEL RISE ON THE COASTAL VULNERABILITY OF ÇUKUROVA DELTA**  
[Özlem Simav](#)<sup>1</sup>, [Dursun Zafer Şeker](#)<sup>2</sup>, [Ayşegül Tanık](#)<sup>2</sup>, [Cem Gazioğlu](#)<sup>3</sup>  
<sup>1</sup>General Command of Mapping, Topoğrafya Fakültesi Caddesi, Dikimevi, Ankara, Turkey  
<sup>2</sup>Faculty of Civil Engineering, Istanbul Technical University, Maslak, İstanbul, Turkey  
<sup>3</sup>Institute of Marine Sciences and Management, İstanbul University, Vefa, İstanbul, Turkey
- 08-p-11**      **COMBINATION OF HYDROLOGICAL MODELLING AND GIS FOR PREDICTING RUNOFF HYDROGRAPHS IN SMALL URBAN CATCHMENT**  
[Laouacheria Fares](#), [Mansouri Rachid](#), [Saadane Naceur](#), [Chabi Moncef](#)  
Hydraulic and Hydraulic Construction Laboratory, Badji Mokhtar Annaba university, Annaba, Algeria
- 08-p-12**      **IMPACT OF URBANIZATION ON THE SURFACE CLIMATE**  
[Asia Lachir](#)<sup>1</sup>, [Lahouari Bounoua](#)<sup>2</sup>, [Mohamed Messouli](#)<sup>1</sup>  
<sup>1</sup>Department of Biology, Cadi ayyad University, Marrakech, Morocco  
<sup>2</sup>Biospheric Sciences Laboratory, NASA Goddard Space Flight Center, Greenbelt Maryland, USA
- 08-p-13**      **EFFECT OF VEGETATION FOR THE AVAILABILITY OF WATER IN ANKARA UNDER THE EXPECTED IMPACTS OF CLIMATE CHANGE**  
[Hasan Hüseyin Miraç Gül](#)<sup>1</sup>, [Sezar Gülbaz](#)<sup>2</sup>  
<sup>1</sup>University of Natural Resources and Applied Life Sciences, Vienna, Austria  
<sup>2</sup>Department of Civil Engineering, İstanbul University, İstanbul, Turkey
- 08-p-14**      **ADAPTATION TO CLIMATE CHANGE IN THE WATER SECTOR OF BOSNIA AND HERZEGOVINA**  
[Emina Hadzic](#)<sup>1</sup>, [Nusret Dreskovic](#)<sup>2</sup>  
<sup>1</sup>Department of Hydrotechnics, Faculty of Civil Engineering, University of Sarajevo  
<sup>2</sup>Department of Geography, Faculty of Science, University of Sarajevo
- 08-p-15**      **ASSESSING CLIMATE CHANGE IMPACTS IN GREECE THROUGH LOCALIZED IMPACT ASSESSMENT MODELS**  
[Athanasios Sfetsos](#), [Diamando Vlachogiannis](#), [Nadia Politi](#), [Aggeliki Demertzi](#), [Nikolaos Gounaris](#), [Athanasios Papadopoulos](#), [Stylios Karozis](#), [George Emmanouil](#), [Anastasia Eleftheriadou](#), [Nikolaos Moustakidis](#)  
Environmental Research Laboratory, INRASTES, NCSR "Demokritos". Greece
- 08-p-16**      **REGIME SHIFTS IN THE ADRIATIC SEA ECOSYSTEM**  
[Branka Grbec](#), [Mira Morovic](#), [Frano Matic](#), [Grozdan Kuspilic](#), [Zivana Nincevic](#), [Olja Vidjak](#), [Natalia Bojanic](#), [Vanja Cikes Kec](#), [Barbara Zorica](#)  
Institute of Oceanography and Fisheries, Split, Croatia
- 08-p-17**      **VULNERABILITY OF WATER SYSTEM IN THE FACE OF CLIMATE CHANGE AND WATER'S ACTORS SYSTEM IN ORANIE-CHOTT CHERGUI BASIN**  
[Naoual Merabet Baghli](#)<sup>1</sup>, [Abderrezzak Bouanani](#)<sup>2</sup>  
<sup>1</sup>Département de Génie de l'eau et Environnement, Institut de Sciences et Technologie, Université de Ain Témouchent, Ain Temouchent, Algeria  
<sup>2</sup>Département d'hydraulique, Faculté des sciences de l'Ingénieur, Laboratoire Promotion des Ressources Hydrique, Pédologique et Minière, Université de Tlemcen, Tlemcen, Algérie
- 08-p-18**      **MODEL SUPPORTED HYDROLOGICAL ANALYSIS OF DARLIK WATERSHED, ISTANBUL, TURKEY**  
[Gokhan Cuceloglu](#), [Ali Erturk](#)  
Department of Environmental Engineering, İstanbul Technical University, İstanbul, Turkey



**08-p-19 CONSERVATION AGRICULTURE AS A MEAN OF CC ADAPTATION IN THE SEMIARID ZONES OF MOROCCO: LONG-TERM EFFECTS ON SOIL QUALITY AND WATER CONSERVATION**

[Mohammed Belmekki<sup>1</sup>](#), [Mohamed El Gharous<sup>2</sup>](#), [Oumaima Iben Halima<sup>2</sup>](#), [Mohamed Boughlala<sup>2</sup>](#), [Zhor Abail<sup>2</sup>](#), [Bouchaib Bencharki<sup>1</sup>](#)

<sup>1</sup>Laboratoire d'Agroalimentaire et Santé. Univ Hassan I, Settat 26000 Morocco

<sup>2</sup>Regional Agricultural Research Center of Settat, Settat 26000 Morocco

## SOIL POLLUTION AND CONTROL

**10-p-01 ENVIRONMENTAL STATUS OF DEGRADED SOILS AND RISK ISSUES FOR POPULATION OF MOLDOVA**

[Tamara Leah](#)

Institute of Soil Science, Agrochemistry and Soil Protection, Kisinev, Moldova

**10-p-02 As, Hg AND Se CONTENTS IN THE ALLUVIAL SEDIMENT AND MUD SAMPLES AFTER CONVENTIONAL, MICROWAVE AND ULTRASONIC TECHNIQUES OF BCR SEQUENTIAL EXTRACTION**

[Dubravka Relic<sup>1</sup>](#), [Sanja Sakan<sup>2</sup>](#), [Ivan Andjelkovic<sup>3</sup>](#), [Ana Pantelic<sup>4</sup>](#), [Aleksandar Popovic<sup>1</sup>](#), [Dragana Djordjevic<sup>2</sup>](#)

<sup>1</sup>Faculty of Chemistry, University of Belgrade, Belgrade, Serbia

<sup>2</sup>ICTM, Centre of Chemistry, University of Belgrade, Belgrade, Serbia

<sup>3</sup>Innovation Center of the Faculty of Chemistry, University of Belgrade, Belgrade Serbia

<sup>4</sup>ICTM, University of Belgrade, Belgrade, Serbia

**10-p-03 ENVIRONMENTAL EFFECTS OF ATMOSPHERIC PARTICULATE MATTER DERIVED FROM MINE WASTES UPON THE AIR QUALITY AND THE SOILS OF THE RIOTINTO REGION (HUELVA, SPAIN)**

[Isabel González<sup>1</sup>](#), [Jesus De La Rosa<sup>2</sup>](#), [Juan Carlos Fernández Caliani<sup>2</sup>](#), [Antonio Romero<sup>1</sup>](#), [Ana Sánchez De La Campa<sup>2</sup>](#), [Emilio Galán<sup>1</sup>](#), [Yolanda Gonzalez Castanedo<sup>2</sup>](#)

<sup>1</sup>University of Seville, Spain

<sup>2</sup>University of Huelva, Spain

**10-p-04 SOIL CONTAMINATED WITH METAL TRACE ELEMENTS**

[Naima Ghemmit Doulache](#), [Hafsa Ouatezergua](#), [Imane Hafid](#)

1. 2and3 Department of Chemistry, Faculty of Sciences, University M'Hamed Bougara of Bumerdes, Laboratory of Fibrous Polymers Treatment and Forming, Faculty of Engineering Science, Avenue of Independence - 35000 -Bumerdes Algeria.

**10-p-05 DETECTION OF MERCURIAL POLLUTION IN THE SOILS AND SEDIMENTS OF THE AZZABA AREA ( N.E. ALGERIA)**

[Mohamed Kahoul<sup>1</sup>](#), [Amel Alioua<sup>2</sup>](#)

<sup>1</sup>University of Annaba - Algeria

<sup>2</sup>University of Oran - Algeria

**10-p-06 AN INTEGRATED APPROACH TO CHARACTERIZE A POLLUTED SITE BY COMBINING CHEMICAL AND GEOPHYSICAL METHODOLOGIES: A CASE STUDY IN APULIA REGION**

[Valeria Ancona](#), [Lorenzo De Carlo](#), [Maria Clementina Caputo](#), [Vito Felice Uricchio](#), [Claudia Campanale](#), [Giuseppe Mascolo](#)

National Research Council, Water Research Institute, Bari (BA) Italy

**10-p-07 EFFECT OF ZEOLITE AND HALLOYSITE ON ACCUMULATION OF TRACE ELEMENTS IN MAIZE (ZEA MAYS L.) IN NICKEL CONTAMINATED SOIL**

[Maja Radziemska<sup>1</sup>](#), [Zbigniew Mazur<sup>2</sup>](#), [Jerzy Jeznach<sup>1</sup>](#), [Joanna Fronczyk<sup>1</sup>](#)

<sup>1</sup>Warsaw University of Life Sciences - SGGW, Faculty of Civil and Environmental Engineering, Warsaw, Poland

<sup>2</sup>Universiti of Warmia and Mazury in Olsztyn, Poland, Faculty of Environmental Management and Agriculture, Olsztyn, Poland

- 10-p-08**     **SCREENING OF HEAVY METAL ACCUMULATORS PLANT SPECIES IN THE VICINITY OF POLLUTED AREAS IN SFAX REGION-TUNISIA**  
[Chiraz Jomni Ben Mbarek](#), [Chedlia Ben Ahmed](#), [Ferjani Ben Abdallah](#)  
Plant Ecology Laboratory. Faculty of Sciences of Sfax, Sfax University, Tunisia
- 10-p-09**     **EFFECTS OF FRESHWATER POLLUTION IN LEMNA MINOR L. EXPOSED IN BAGS IN A POLLUTED RIVER OF SOUTH ITALY**  
[Adriana Basile](#)<sup>1</sup>, [Sergio Esposito](#)<sup>1</sup>, [Sergio Sorbo](#)<sup>2</sup>, [Manuela Cardi](#)<sup>1</sup>, [Massimo Lentini](#)<sup>1</sup>,  
[Barbara Conte](#)<sup>1</sup>, [Paola Bassi](#)<sup>3</sup>, [Claudia Ciniglia](#)<sup>4</sup>, [Stefano Loppi](#)<sup>5</sup>  
<sup>1</sup>University Federico II, Naples  
<sup>2</sup>C.I.S.M.E.  
<sup>3</sup>University "Sapienza" Rome  
<sup>4</sup>II° University Naples, Caserta  
<sup>5</sup>University Siena
- 10-p-10**     **EFFECTS OF AIR POLLUTION ON HSPS INDUCTION AND ANTIBACTERIAL ACTIVITY IN FEIJOA SELLOWIANA BERG. GROWN IN THE "ITALIAN TRIANGLE OF DEATH"**  
[Adriana Basile](#)<sup>1</sup>, [Sergio Sorbo](#)<sup>2</sup>, [Paola Bassi](#)<sup>3</sup>, [Manuela Cardi](#)<sup>1</sup>, [Massimo Lentini](#)<sup>1</sup>, [Sergio Esposito](#)<sup>1</sup>  
<sup>1</sup>University "Federico II", Naples  
<sup>2</sup>C.I.S.M.E., Naples, Italy  
<sup>3</sup>University "Sapienza", Rome
- 10-p-11**     **THE EFFECT OF CLINOPTILOLITE ADDITION ON POTASSIUM RELEASE FROM SANDY SOIL TREATED WITH COMPOST**  
[Despina Pentari](#), [Daniel Moraetis](#), [Sotiria Papagiannidou](#), [Alexis Pratikakis](#), [Konstantinos Komnitsas](#)  
Mineral Resources Engineering Department, Technical University of Crete, Chania, Greece
- 10-p-12**     **CHARACTERIZATION OF HEAVY METALS ACCUMULATION IN POLLUTED SOIL IN AN INDUSTRIAL ZONE IN SFAX CITY DURING TWO CRITICAL PERIODS**  
[Radhia Fourati](#)<sup>1</sup>, [Chedlia Ben Ahmad](#)<sup>2</sup>, [Imed Mezghani](#)<sup>1</sup>, [Ferjani Ben Abdallah](#)<sup>1</sup>  
<sup>1</sup>Laboratory of Plant Biodiversity and Ecosystem Dynamics in Arid Area, Faculty of Sciences of Sfax, Tunisia  
<sup>2</sup>Laboratory of Improvement of the Productivity of the Olive and Fruit Trees, Institute of Olive Tree in Sfax, Tunisia
- 10-p-13**     **TOTAL PETROLEUM HYDROCARBONS DISSIPATION EFFICIENCY OF TWO PSEUDOMONAS STRAINS ISOLATED FROM DIESEL CONTAMINATED SOIL IN CYPRUS**  
[Angelos Dados](#)<sup>1</sup>, [Kyproula Demetriou](#)<sup>1</sup>, [Chara Papastephanou](#)<sup>1</sup>, [Michalis Omirou](#)<sup>2</sup>, [Ioannis Ioannides](#)<sup>2</sup>  
<sup>1</sup>CP Foodlab Ltd, Polyfonti 25, Strovolos, Nicosia, Cyprus  
<sup>2</sup>Department of Agrobiotechnology, Agricultural Research Institute, 1516, Nicosia, Cyprus
- 10-p-14**     **ACCUMULATION AND FRACTIONATION OF TRACE METALS IN A CALCAREOUS SOIL AMENDED WITH MUNICIPAL SOLID WASTE COMPOST**  
[Gabteni Noureddine](#)<sup>1</sup>, [Ben Achiba Walid](#)<sup>1</sup>, [Jedidi Naceur](#)<sup>2</sup>  
<sup>1</sup>Faculty of Sciences of Tunis, Tunisia  
<sup>2</sup>Technopole borj Cedria, Soliman, Tunisia
- 10-p-15**     **NITROGEN DYNAMICS AND WATER USE IN WHEAT AS AFFECTED BY TILLAGE AND RESIDUE RETENTION IN RICE-WHEAT SYSTEM**  
[Nanak Singh Pasricha](#)  
Department of Soil Science, Potash Research Institute of India, Gurgaon, India

- 10-p-16 **NITRATE MIGRATION AND DRAINAGE LOSSES IN CLAY LOAM IRRIGATED SOILS: STUDY CASE OF KALAAT LANDALOUS (TUNISIA)**  
[Hatira Abdessatar<sup>1</sup>](#), [Saker Salwa<sup>1</sup>](#), [Daghari Hedi<sup>2</sup>](#), [Hammami Moncef<sup>2</sup>](#)  
<sup>1</sup>Faculté des Sciences de Tunis  
<sup>2</sup>institut National Agronomique de Tunis
- 10-p-17 **MONITORING OF PESTICIDE POLLUTION IN MNASRA SOIL -MOROCCO**  
[Souad El Hajjaji<sup>1</sup>](#), [Bouchra Marouane<sup>1</sup>](#), [Abdelmalek Dahchour<sup>2</sup>](#), [Sylvie Dousset<sup>3</sup>](#)  
<sup>1</sup>Laboratory of Spectroscopy, Molecular Modeling, Materials and Environment, Faculty of Sciences, University Mohamed V- Agdal, Av Ibn Battouta, BP1014, Rabat 10000, Morocco  
<sup>2</sup>Department of fundamental and Applied Sciences, Hassan II Agronomic and Veterinary Institute, BP 62002 Rabat-Institute 10000, Morocco  
<sup>3</sup>Laboratory Interdisciplinary of Environmental Continental (LIEC) UMR 7137 CNRS, University of Lorraine, Faculty of Sciences - BP70239 Vandoeuvre Les Nancy 54506, France
- 10-p-18 **ENVIRONMENTAL RADIOACTIVITY ANALYSES OF SOIL SAMPLES IN ANTALYA, TURKEY FOLLOWING THE FUKUSHIMA DAI-ICHI NUCLEAR ACCIDENT**  
[Suleyman Fatih Ozmen](#), [Ismail Boztosun](#), [Alp Cesur](#)  
Department of Physics, Akdeniz University, Antalya, Turkey
- 10-p-19 **ENVIRONMENTAL RADIOACTIVITY ANALYSES AND ASSESSMENT OF RADIOACTIVITY HAZARDS OF BEACH SAND SAMPLES IN MEDITERRANEAN COAST OF TURKEY FOLLOWING THE FUKUSHIMA DAI-ICHI NUCLEAR ACCIDENT**  
[Suleyman Fatih Ozmen](#), [Ismail Boztosun](#), [Alp Cesur](#)  
Department of Physics, Akdeniz University, Antalya, Turkey
- 10-p-20 **IMPORTANCE OF PHOSPHOGYPSUM IN THE REDUCTION OF SALT STRESS EFFECTS ON YOUNG OLIVE TREES (OLEA EUROPAEA L. CV. CHEMLALI)**  
[Chiraz Jomni Ben Mbarek<sup>1</sup>](#), [Mokded Rabhi<sup>2</sup>](#), [Chedlia Ben Ahmed<sup>1</sup>](#), [Ferjani Ben Abdallah<sup>1</sup>](#)  
<sup>1</sup>Department of Life Sciences, Sfax University, Sfax, Tunisia  
<sup>2</sup>Laboratory of extremophile plants, Biotechnology centre of Borj Cedria, Tunisia
- 10-p-21 **NICKEL REMOVAL FROM INDUSTRIALLY CONTAMINATED SOILS BY USING BACTERIAL ACTIVITY**  
[Farid Hassanbaki Garabaghi](#), [Selim Latif Sanin](#)  
Environmental Engineering Department of Hacettepe University, Ankara, Turkey
- 10-p-22 **COMPARISON OF MINE WASTE WEATHERING UNDER VARIOUS CLIMATIC REGIONS. A COMPARATIVE STUDY IN HUNGARY AND MOROCCO**  
[El Mehdi Benyassine<sup>1</sup>](#), [Abdelilah Dekayir<sup>1</sup>](#), [Gyozo Jordan<sup>2</sup>](#), [Mohamed Rouai<sup>1</sup>](#), [Sandor Szakal<sup>3</sup>](#), [Andras Bartha<sup>4</sup>](#)  
<sup>1</sup>Earth Science department, Moulay Ismail University, Meknes, Morocco  
<sup>2</sup>Institute for Soil Sciences and Agricultural Chemistry, Centre for Agricultural Research, Hungarian Academy of Sciences, Budapest, Hungary  
<sup>3</sup>Faculty of Earth and Engineering, Miskolc University, Miskolc, Hungary  
<sup>4</sup>CEMKUT Ltd., Budapest, Hungary
- 10-p-23 **ASSESSMENT OF SOIL CONTAMINATION WITH HEAVY METALS USING POLLUTION INDICES**  
[Ragab El Sayed Rabeiy<sup>1</sup>](#), [Thabet Aly Mohameda<sup>2</sup>](#), [Mohamed Abuel-kassem Mohamed<sup>1</sup>](#), [Mahmoud Gandour<sup>3</sup>](#)  
<sup>1</sup>Mining and Metallurgical Eng. Department, Faculty of Engineering, Assiut University, Assiut, Egypt  
<sup>2</sup>National Institute of Occupational Safety and Health (NIOSH), Assiut, Egypt  
<sup>3</sup>Chemistry Dept., Faculty of Science, Assiut University, Assiut, Egypt





- 10-p-24**     **MONITORING SOIL DEGRADATION BY REMOTE SENSING METHODS EXAMPLES WITH THREE DEGRADATION PROCESSES**  
[Naftaly Goldshleger](#)  
Ministry of Agriculture Israel
- 10-p-25**     **HARDPAND AS A WAY TO REDUCE THE POLLUTION ON SOILS AND WATER IN MINE AREAS**  
[Isabel González](#), [Antonio Romero](#), [Emilio Galán](#)  
Department of Crystallography and Mineralogy. University of Seville, Seville, Spain
- 10-p-26**     **COMBINED EFFECTS OF OIL POLLUTION AND VARIABLE MAGNETIC FIELD ON ENZYME ACTIVITY OF ORDINARY CHERNOZEM**  
[Maria S. Mazanko](#), [Sergey I. Kolesnikov](#), [Tatiana V. Denisova](#)  
Department of Biology Sciences, Sousearn Federal University, Rostov-on-Don, Russia



Tuesday, 1<sup>st</sup> October

**Conference Room A**  
**Session IX A: WATER POLLUTION and CONTROL V**

- 9.00 - 9.20 **NUTRIENT MODELLING IN COASTAL WATERS OF IZMIT BAY**  
[G. Onkal Engin<sup>1</sup>](#), [E. Gurbulak<sup>2</sup>](#), [M. Celen<sup>2</sup>](#), [F. Ulu<sup>2</sup>](#), [M.s. Oncel<sup>2</sup>](#)  
<sup>1</sup>Yildiz Technical University, Department of Environmental Engineering, Esenler, Istanbul  
<sup>2</sup>Gebze Institute of Technology, Department of Environmental Engineering, Gebze, Kocaeli
- 9.20 - 9.40 **RELATIONSHIP OF MACROINVERTEBRATE FAUNA, NUTRIENT LOADS AND HYDROMORPHOLOGY AS AN INTEGRATED ASSESSING TOOL FOR THE ECOLOGICAL STATUS IN ESTUARIES. CASE STUDY OF ARCADIKOS R. AND NEDA R. (MESSINIA-PELOPONNESE, GREECE)**  
[Konstantinos Gritzalis](#), [Evangelia Anastasopoulou](#), [Nikolaos Georgiopoulos](#), [Ioannis Karaouzas](#), [Nikolaos Skoulikidis](#)  
Hellenic Centre for Marine Research, Institute of Marine Biological Resources and Inland Waters. Anavyssos, Greece
- 9.40 - 10.00 **ACUTE EFFECT OF SYNTHETIC ESTROGEN 17 ALPHA- ETHINYLESTRADIOL ON BIOLOGICAL CARBON REMOVAL PROCESSES**  
[Emine Ubay Cokgor](#), [Burcu Alanyali](#), [Burcu Tezcan](#), [Melike Gurel](#), [Gulen Iskender](#)  
Department of Environmental Engineering, Istanbul Technical University, Istanbul, Turkey
- 10.00 - 10.20 **EFFECTS OF AQUIFER PROPERTIES ON STREAM/GROUNDWATER INTERACTIONS**  
[Uğur Boyraz](#), [Cevza Melek Kazezyılmaz Alhan](#)  
Department of Civil Engineering, Istanbul University, Istanbul, Turkey

10.30 - 11.00 Coffee break at Poster Room (Galata Hall)

**Session X A: BIODIVERSITY and ECOSYSTEM FUNCTIONS /  
ECOLOGICAL DISASTERS / AIR QUALITY and POLLUTION**

- 11.00 - 11.20 **IDENTIFYING LAND USE/COVER CHANGE BY USING REMOTELY SENSED DATA: ISTANBUL SARIYER CASE STUDY**  
[Fulya Başak Sarıyılmaz](#), [Nebiye Musaoğlu](#)  
Department of Geomatics Engineering, İstanbul Technical University
- 11.20 - 11.40 **A SAMPLE STUDY ON OIL SPILL AND CLEANING ACTION BY USING UAV**  
[Cem Gazioğlu<sup>1</sup>](#), [Ozgun Evren Varol<sup>2</sup>](#), [Ahmet Edip Müftüoğlu<sup>1</sup>](#), [Volkan Demir<sup>1</sup>](#), [Ertuğrul Doğan<sup>3</sup>](#), [Hakan Kaya<sup>1</sup>](#)  
<sup>1</sup>Istanbul University, Institute of Marine Sciences and Management, <sup>2</sup>CEC Marine and Environment, ISTANBUL, <sup>3</sup>Avrasya University, TRABZON
- 11.40 - 12.00 **MAPPING THE DISTRIBUTION OF OIL SENSITIVE FISH AND BIRD SPECIES IN THE ISTANBUL STRAIT**  
[Teoman Dikerler<sup>1</sup>](#), [Aysegul Tanik<sup>2</sup>](#), [Nebiye Musaoğlu<sup>1</sup>](#)  
<sup>1</sup>Istanbul Technical University, Civil Engineering Faculty, Geomatics Engineering Department, Istanbul  
<sup>2</sup>Istanbul Technical University, Civil Engineering Faculty, Environmental Engineering Department, Istanbul
- 12.00 - 12.20 **DETERMINATION OF AMBIENT LEVELS AND SOURCES OF VOLATILE ORGANIC COMPOUNDS IN AN INDUSTRIAL REGION AT THE AEGEAN COAST OF TURKEY: STUDY AREA AND DATA SET DESCRIPTION**



[Güray Doğan](#)<sup>1</sup>, [Mihriban Yılmaz Civan](#)<sup>3</sup>, [Öznur Oğuz Kuntasal](#)<sup>4</sup>, [Aysen Müezzinoğlu](#)<sup>5</sup>,  
[Abdurrahman Bayram](#)<sup>5</sup>, [Mustafa Odabaşı](#)<sup>5</sup>, [Tolga Elbir](#)<sup>5</sup>, [Sait Sofuğlu](#)<sup>6</sup>, [Remzi  
Seyfioğlu](#)<sup>5</sup>, [Hakan Pekey](#)<sup>3</sup>, [Beyhan Pekey](#)<sup>3</sup>, [Gürdal Tuncel](#)<sup>2</sup>

<sup>1</sup>Department of Environmental Engineering, Akdeniz University, Antalya, Turkey

<sup>2</sup>Department of Env. Engineering, Middle East Technical University, Ankara Turkey

<sup>3</sup>Department of Environmental Engineering, Kocaeli University, Kocaeli Turkey

<sup>4</sup>United Nations Development Program Turkey, Ankara Turkey

<sup>5</sup>Department of Environmental Engineering, Dokuz Eylul University, İzmir Turkey

<sup>6</sup>Department of Env. Engineering, İzmir Institute of Technology, İzmir Turkey

**12.45 - 13.15**

**Session XI: Conclusions of the Symposia**

**13.15 - 14.00**

**Lunch**

**14.00 - 18.00**

**Cultural Excursion (Optional)**

## Conference Room B

### Session IX B: IMPACT OF CLIMATE CHANGE IN THE MEDITERRANEAN REGION I

- 9.00 - 9.20 **HEALTH IMPACT ASSESSMENT OF THE TRAFFIC RELATED GREENHOUSE GASES (GHG) EMISSION POLICIES- THE CASE STUDY OF THESSALONIKI, GREECE**  
[Denis Andreas Sarigiannis<sup>1</sup>](#), [Periklis Kontoroupi<sup>1</sup>](#), [Dimitrios Chapizanis<sup>2</sup>](#), [Spyros Karakitsios<sup>1</sup>](#)  
<sup>1</sup>Chemical Process and Energy Resources Institute, Centre for Research and Technology-Hellas, Thessaloniki  
<sup>2</sup>Department of Chemical Engineering, Aristotle University of Thessaloniki, Thessaloniki
- 9.20 - 9.40 **WATER FOOTPRINT AS DECISION SUPPORT TOOL FOR SUSTAINABLE WATER MANAGEMENT IN THE MEDITERRANEAN REGION**  
[Handan Şahin<sup>1</sup>](#), [Tamer Atabarut<sup>2</sup>](#), [Bülent Topkaya<sup>1</sup>](#)  
<sup>1</sup>Department of Environmental Engineering, Akdeniz University, Antalya, Turkey  
<sup>2</sup>Boğaziçi University, Istanbul
- 9.40 - 10.00 **IMPACT OF MINERAL DUST ON MEDITERRANEAN CLIMATE**  
[Tugba Agacayak<sup>1</sup>](#), [Tayfun Kindap<sup>1</sup>](#), [Alper Unal<sup>1</sup>](#), [Luca Pozzoli<sup>1</sup>](#), [Marc Mallet<sup>2</sup>](#), [Ozan Mert Gokturk<sup>1</sup>](#)  
<sup>1</sup>Eurasia Institute of Earth Sciences, Istanbul Technical University, Istanbul, Turkey  
<sup>2</sup>Laboratoire d'Aerologie, University Paul Sabatier, Toulouse, France
- 10.00 - 10.20 **IMPACT OF ENVIRONMENTAL HYPERTHERMIA AND POLLUTION BY CADMIUM ON BIOLOGICAL MARKERS OF WISTAR RAT**  
[Cherif Abdennour](#), [Zehour Zerfaoui](#)  
Department of Biology, Faculty of Sciences, University Badji Mokhtar-Annaba, Annaba 23000, Algeria

**10.30 - 11.00** Coffee break at Poster Room (Galata Hall)

### Session X B: SOIL POLLUTION AND CONTROL II

- 14.00 - 14.20 **SPATIAL AND TEMPORAL ANALYSIS OF BLACK CARBON AEROSOLS IN ISTANBUL MEGACITY**  
[Huseyin Ozdemir<sup>1</sup>](#), [Luca Pozzoli<sup>2</sup>](#), [Goksel Demir<sup>1</sup>](#), [Bulent Mertoglu<sup>3</sup>](#), [Nikos Mihalopoulos<sup>4</sup>](#), [Christina Theodosi<sup>4</sup>](#), [Maria Kanakidou<sup>4</sup>](#), [Ulas Im<sup>4</sup>](#), [Tayfun Kindap<sup>2</sup>](#), [Alper Unal<sup>2</sup>](#)  
<sup>1</sup>Bahcesehir University, Dept. of Environmental Engineering, Istanbul, Turkey  
<sup>2</sup>Istanbul Technical University, Eurasia Inst. of Earth Sciences, Istanbul, Turkey  
<sup>3</sup>Faculty of Eng., Dept. of Bioengineering, Marmara Univ., Istanbul, Turkey  
<sup>4</sup>University of Crete, Department of Chemistry, Environmental Chemical Processes Laboratory, Heraklion, Greece
- 14.40 - 15.00 **SIZE DISTRIBUTION OF ATMOSPHERIC PARTICULATE INORGANIC SPECIES AT AN URBAN SITE IN THE CENTRAL BALKANS (BELGRADE)**  
[A. Mihajlidi Zelic<sup>1</sup>](#), [D. Djordjevic<sup>1</sup>](#), [D. Relic<sup>2</sup>](#), [Lj. Ignjatovic<sup>3</sup>](#), [A.m. Stortini<sup>4</sup>](#), [A. Gambaro<sup>5</sup>](#)  
<sup>1</sup>ICHTM - Centre of chemistry, University of Belgrade, Serbia  
<sup>2</sup>Faculty of Chemistry, University of Belgrade, Serbia  
<sup>3</sup>Faculty of Physical Chemistry, University of Belgrade, Serbia  
<sup>4</sup>Inst. for the Dynamics of Environmental Processes (CNR-IDPA), Venice, Italy.  
<sup>5</sup>Environmental Sciences, Informatics, Statistic Department, Ca' Foscari University of Venice, Venice, Italy



- 14.20 - 14.40 **CALCULATION OF CO<sub>2</sub> EMISSIONS ORIGINATING FROM FOREST FIRES THROUGH THE USE OF REMOTE SENSING IMAGES: ANTALYA CASE**  
[Nuray Akalın<sup>1</sup>](#), [Deniz Sarı<sup>1</sup>](#), [Teoman Dikerler<sup>2</sup>](#), [Nebiye Musaoğlu<sup>2</sup>](#)  
<sup>1</sup>TUBITAK Marmara Research Center, Environment Institute, Gebze, Kocaeli  
<sup>2</sup>Istanbul Technical University, Geomatics Engineering Department, Maslak, Istanbul
- 15.00 - 15.20 **INFLUENCE OF AIR FLOW ON AEROBIC REMEDIATION SOIL POLLUTED WITH GASOIL**  
[Baghdadi Yacine Yacine](#), [Bentahar Fatiha Fatiha](#), [Arrar Djazia Djazia](#)  
Laboratoire des phénomènes de transfert. Faculté Génie Mécanique et Génie des Procédés

**12.45 - 13.15**

**Session XI: Conclusions of the Symposia**

**13.15 - 14.00**

**Lunch**

**14.00 - 18.00**

**Cultural Excursion (Optional)**