

15th International Symposium
on Environmental Pollution and its Impact on Life
in the Mediterranean Region with focus on
Environmental Threats in the Mediterranean Region:
Problems and Solutions

FINAL PROGRAMME



October 7-11, 2009, Bari, Italy



MESAEP

Mediterranean Scientific Association
of Environmental Protection

Under the auspices of

- University of Bari
- Regione Puglia
- Provincia di Bari
- University of Foggia
- Int. Union of Soil Science (IUSS)
- European Confederation of Soil Science Societies (ECSSS)
- Int. Society of Humic Substances (IHSS)
- Int. Society of Doctors for the Environment (ISDE)
- Balkan Environmental Association
- Associazione Italiana Società Scientifiche Agrarie (AISSA)
- Società Chimica Italiana (SCI)
- Società Italiana della Scienza del Suolo (SISS)
- Società Italiana di Chimica Agraria (SICA)
- Ordine dei Biologi Italiani
- Società Italiana di Biologia Marina (SIBM)
- Società Italiana di Pedologia (SIPE)

With the sponsorship of

- University of Bari
- Regione Puglia
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15th International Symposium
on
Environmental Pollution
and its Impact on Life in the Mediterranean Region

October 7 to 11, 2009 in Bari, Italy

with focus on

Environmental Threats in the Mediterranean Region:
Problems and Solutions



organized by
Mediterranean Scientific Association
of Environmental Protection (MESAEP)

In Collaboration with

- University of Bari, Italy
- Politecnico di Torino, Italy
- Regione Puglia
- Agenzia Regionale per l'Ambiente Puglia (ARPA), Bari, Italy
- Istituto Agronomico Mediterraneo (IAM), Bari, Italy
- European Commission - Joint Research Centre, Ispra, Italy
- Helmholtz Zentrum München, Germany
- University of Ioannina, Greece
- Akdeniz University, Antalya, Turkey
- State General Laboratory, Min. of Health, Cyprus
- Bavarian Research Alliance, München, Germany
- SELECTO srl, Bari, Italy

OBJECTIVES

The objectives of the symposium are to offer opportunities for scientists of different countries to:

- exchange recent results related to environmental pollution processes and their effects on natural resources, public health and economy in the Mediterranean region
- discuss current scientific, technological and legal issues to avoid or reduce the degradation of the Mediterranean environment
- provide suggestions and recommendations to regulatory authorities on environmental quality and safety in the Mediterranean and other neighboring countries.

SYMPOSIUM LOCATION

The city of Bari is located in Southeastern Italy on the sunny and warm Adriatic coast, in the Region of Puglia of which is the regional capital. Bari counts around 400,000 inhabitants and is a very active commercial and touristic port featuring several daily ferry connections with Greece, Albania, Montenegro and Croatia.

The city features an old medieval area rich in renowned monuments, including the romanica Basilica of San Nicola and the Cathedral of the 10th-11th century, several other churches and buildings of various styles, narrow streets and small squares permeated by a suggestive ancient atmosphere, and several small restaurants, pubs and bars.

The active and crowded city centre surrounds the old city featuring long straight streets, several buildings of the 18th-19th century, including the central University building, the Ateneo, and elegant shops for all needs, restaurants of all types, pubs and bars. A typical feature of Bari is the impressive boulevard along the seashore (Lungomare), about 2-km long, with the old small harbor where still are small fishing boats.

The modern, wider city surrounds the city centre, and includes the scientific Campus of the University of Bari, buildings hosting several other University Faculties and Research Institutes, and the Polytechnic of Bari.

The beaches south and north of the city are renowned for their fine white sands often surrounded by pine woods and cliffs of calcareous rock.

The province of Bari and the region of Puglia offer a number of beautiful towns, both on the coast and on the hills, rich of culture, monuments and architectural features, and an agricultural land rich of centuries-old olive trees, vineyards and orchards.

The Symposium will take place at the Palace Hotel in the city centre.

ABOUT THE SYMPOSIUM

The 15th International Symposium on „Environmental Pollution and its Impact on Life in the Mediterranean Region“ is organized by the Mediterranean Scientific Association of Environmental Protection (MESAEP).

Since October 1979, MESAEP, a non-profit making association, has been contributing to the improvement of the Euro-Mediterranean cooperation on environmental issues. The scientific network of the association is already operational over the whole Mediterranean territory and has intensified collaborative efforts to control and preserve natural resources, protect environmental and human health, and combat pollution, erosion, and desertification in the Mediterranean region. More information on MESAEP activities can be found at the Internet address www.mesaep.org.

Previous symposia of MESAEP were held in Athens, Greece (1981), Crete, Greece (1983), Istanbul, Turkey (1985), Kavala, Greece (1987), Blanes, Spain (1989), Como, Italy (1991), Antibes, France (1993), Rhodos, Greece (1995), S. Agnello di Sorrento, Italy (1997), Alicante, Spain (1999), Limassol, Cyprus (2001), Antalya, Turkey (2003), Thessaloniki, Greece (2005) and Sevilla, Spain (2007).

PAPERS PUBLICATION

A book of abstracts will be distributed 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 FRESINIUS 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 not later than December 19, 2009.

For the preparation of manuscripts please refer to www.psp-parlar.de

Supplementary information about the papers publication will be also given at the Symposium information desk in Bari.

STRUCTURE The program of the symposium will include plenary and keynote lectures, oral presentations as well as posters. Oral and poster contributions will be regarded as scientifically equivalent in the program.

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 briefly present (3 min/3-4 slides) their poster content in full audience sessions scheduled.

All presentations (oral and posters) should be in English.

SESSIONS

The General Theme of the Conference is:

**“Environmental Threats in the Mediterranean Region:
Problems and Solutions”**,

This overarching theme will be discussed in n.11 sessions dealing with the following specific topics :

- Session 1. Agricultural, domestic and industrial wastes
- Session 2. Soil quality, pollution, degradation and desertification
- Session 3. Water quality and pollution
- Session 4. Outdoor and indoor air quality and pollution
- Session 5. Crops and food quality and pollution
- Session 6. Environment and human health
- Session 7. Animal health risks
- Session 8. Intercompartmental element fluxes and climate changes and effects on the ecosystem and human health
- Session 9. Biodiversity and sustainability
- Session 10. Sustainable mobility and renewable energy use to combat pollution
- Session 11. Natural and artificial radioactive pollution

COMMITTEES **Steering MESAEP Committee**

N. Senesi (Univ. Bari), S. Canna-Michaelidou (State Gen. Lab., Cyprus), B. Topkaya (Akdeniz Univ., Antalya), M. Zucchetti (Politecnico Torino), D. Sarigiannis (EC-JRC, Ispra), M. Kirchner (Helmholtz Zentrum, München), G. Pilidis (Univ. Ioannina), W. Bergheim (Helmholtz Zentrum, München), S. Pakalin (EC-JRC, Ispra)

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Time Table

Wednesday, October 7th

- 09.00 - 14.00 Registration at Hotel Symposium desk (Hotel Palace)
- 14.00 - 15.00 **Official Opening Ceremony (Salone degli Affreschi, Palazzo Ateneo, Università di Bari)**
- 15.00 - 15.45 Opening Plenary Lecture (I. Efthymiopoulos)
- 15.45 - 16.05: coffee break
- 16.05 - 18.20 **Session 6** (Human Health)
- 18.20 - 20.30 Welcome reception

Thursday, October 8th (Hotel Palace)

- 8.30: Registration continued, poster placement Sessions 6, 1, 3
- 8.30 - 10.30: **Session 1** (Wastes)
- 10.30 - 10.50: coffee break
- 10.50 - 13.05: **Session 3** (Waters)
- 13.05 - 14.30: lunch break
- 14.30 - 16.00: **Session 3 cont.** (Waters)
- 16.00 - 16.20: coffee break
- 16.20 - 18.35: **Session 4** (Air)
- 18.35 - 19.35: poster discussion Sessions 6, 1, 3
- 19.35 poster removal Sessions 6, 1, 3
poster placement Sessions 2, 5, 7
- 19.35: General Assembly of MESAEP

Friday, October 9th (Hotel Palace)

- 8.30: Registration continued, poster placement Sessions 2, 5, 7
- 8.30 - 10.30: **Session 2** (Soils)
- 10.30 - 10.50: coffee break

10.50 - 12.35: **Session 2 cont.** (Soils)

12.35 - 13.05: **Session 5** (Crops/Food)

13.05 - 14.30: lunch break

14.30 - 16.15: **Session 5 cont.** (Crops/Food)

16.15 - 16.35: coffee break

16.35 - 18.20: **Session 7** (Animal Health)

18.20 - 19.20: poster discussion Sessions 2, 5, 7

19.20: poster removal Sessions 2, 5, 7

poster placement Sessions 4, 8, 9, 10, 11

20.30: social dinner and folklore show

Saturday, October 10th

(Hotel Palace)

8.30: Registration continued, poster placement Sessions 4, 8, 9, 10, 11

8.30 - 10.15: **Session 8** (Fluxes/Climate)

10.15 - 10.35: coffee break

10.35 - 12.20: **Session 9** (Biodiversity)

12.20 - 14.00: lunch break

14.00 - 15.45: **Session 10** (Sust. Mob./Ren. Energy)

15.45 - 16.05: coffee break

16.05 - 17.50: **Session 11** (Radioactivity)

17.50 - 18.20: poster discussion Sessions 4, 8, 9, 10, 11

18.20 - 18.30: closing ceremony

18.30: poster removal Sessions 4, 8, 9, 10, 11

Sunday, October 11th

8.30 - 18.30: All-day Post-Symposium Excursion

Wednesday, Oct. 7th, 2009

Wednesday, Oct. 7th

09.00- 14.00 Registration at Hotel Symposium desk (Hotel Palace)

14.00- 15.00 Official Opening Ceremony
(Salone degli Affreschi, Palazzo Ateneo, Università di Bari)

Chairpersons N. Senesi, J. Cornejo, and T. Miano

15.00- 15.45 Opening Plenary Lecture

THE MEDITERRANEAN AND THE ECOLOGICAL FOOTPRINT

I. Efthymiopoulos

Interdisciplinary Institute for Environmental Research, 106 85 Athens,
GREECE

15.45- 16.05: coffee break

16.05- 18.20 Session 6
Environment and human health

Chairpersons S. Pakalin and D.A. Sarigiannis

keynote lecture

ENVIRONMENTAL GOVERNANCE AND THE ROLE OF REGIONAL
ENVIRONMENTAL PROTECTION AGENCIES

G. Assenato

Environmental Prevention and Protection Agency of Apulia, General Director,
70126 Bari, ITALY

06-o-01 ENVIRONMENTAL AND HEALTH IMPACT ASSESSMENT ON WIDE
AREA INTERESTED OF COMBINED CYCLE GAS TURBINE PLANT IN
MODUGNO (BA)

M. Blonda, D. Gramegna, L. Angiuli, L. Bisceglia, M.C. De Mattia, F. Di Gioia,
R. Giua, A. Guarnieri, M. Lacarbonara, P. Lavarra, A. Nocioni, A. Pastorelli, A.
Primicino, R. Sani, N. Ungaro, and B. Valenzano

Arpa Puglia, Direzione Scientifica, 70126 Bari, ITALY

06-o-02 THE AIR QUALITY AND THE IMPACT ON POPULATION HEALTH

M. LIKA and H. Mankolli

University of Tirana, Dept. of Biology, 00355 Tirane, ALBANIA

- 06-o-03 KNOWLEDGE EVALUATION: CLIMATE CHANGE AND RESPIRATORY DISEASES
[B. Forsberg](#), [L. Bråbäck](#), [A. Bartonova](#), [H.-Y. Liu](#), [A. Yang](#), [M. Kobernus](#), and [M. Kraye von Krauss](#)
Norwegian Institute for Air Research (NILU), Center for Ecological Economics, 2027 Kjeller, NORWAY
- 06-o-04 CHILDREN EXPOSURE TO PASSIVE SMOKING IN CYPRUS: PILOT INVESTIGATION OF COTININE LEVELS IN CHILDREN'S SALIVA
[S. Canna-Michaelidou](#), [A. Katsonouri](#), [E. Demetriou](#), [N. Michael](#), and [A. Hadjipanayi](#)
Ministry of Health, State General Laboratory, 1451 Nicosia, CYPRUS
- 06-o-05 HEALTH DIMENSION OF IHCP ACTIVITIES ON NANOTECHNOLOGY
[S. Pakalin](#)
European Commission, Joint Research Centre, 21020 Ispra (VA), ITALY
- 06-o-06 CANCER RISK ATTRIBUTABLE TO ARSENIC EXPOSURE FROM ALL SOURCES IN THE MEDITERRANEAN BASIN
[D.A. Sarigiannis](#), [A. Gotti](#), [P. Fantke](#), [O. Travnikov](#), and [F. Camilleri](#)
European Commission, Joint Research Centre, 21020 Ispra (VA), ITALY

18.20- 20.30 Welcome reception

Thursday, Oct. 8th

08.30: Registration continued, poster placement Sessions 6, 1, and 3

08.30 - 10.30 **Session 1**

Agricultural, domestic and industrial wastes

Chairpersons G. Pilidis and B. Topkaya

keynote lecture

AGRICULTURAL USES OF COAL FLY ASH

[U. Mingelgrin](#), [S. Bartal](#), and [P. Fine](#)

Volcani center, ARO, Department Soils, Water and Environmental Sciences,
50250 Bet-Dagan, ISRAEL

01-o-01 ANAEROBIC CO-DIGESTION OF OLIVE MILL WASTEWATER WITH PIG WASTE: EFFECT OF WASTE RATIO, IMPACT OF THE CO-DIGESTED INOCULUM ON THE ANAEROBIC DIGESTION OF PIG WASTE

[P. Kougias](#), [T.A. Kotsopoulos](#), and [G.G. Martzopoulos](#)

Aristotle University of Thessaloniki, Faculty of Agriculture, 54124
Thessaloniki, GREECE

01-o-02 ANALYSIS OF PHARMACEUTICAL RESIDUES IN COMPOST FOR AGRICULTURAL PURPOSES

[J. Martín](#), [D. Camacho-Muñoz](#), [J. L. Santos](#), [I. Aparicio](#), and [E. Alonso](#)

University of Seville, Dept. of Analytical Chemistry, 41011 Seville, SPAIN

01-o-03 PRODUCTION OF BIOGAS FROM TABLE OLIVE PROCESSING WASTE WATER, SLAUGHTERHOUSE WASTES AND DAIRY CATTLE MANURE BY ANAEROBIC CO-DIGESTION TREATMENT PROCESS

[G.A. Pilidis](#) and [I.S. Zarkadas](#)

University of Ioannina, Department of Biological Applications and
Technologies, 45110 Ioannina, GREECE

01-o-04 EVOLUTION OF ORGANIC MATTER DURING ANAEROBIC DIGESTION OF DIFFERENT ORGANIC WASTES ASSESSED BY SPECTROSCOPIC TECHNIQUES

[M.R. Provenzano](#), [G. Iannuzzi](#), [C. Fabbri](#), and [N. Senesi](#)

University of Bari, Dipartimento di Biologia e Chimica Agroforestale e
Ambientale, 70126 Bari, ITALY

01-o-05 ENVIRONMENTAL IMPACTS OF DETERGENT PHOSPHORUS

[C. Ercan](#) and [B. Topkaya](#)

Akdeniz University, Faculty of Engineering, Dept. of Environ. Engineering,
07200 Antalya, TURKEY

10.30- 10.50: coffee break

10.50- 13.05: **Session 3**
(Water quality and pollution)

Chairpersons M. Bahadir and A. Canatário Duarte

keynote lecture

OCCURRENCE AND BEHAVIOR OF EMERGING CONTAMINANTS
IN WASTE WATER TREATMENT PLANTS: CHALLENGES IN THEIR
EXPOSURE ASSESSMENT

[E.G. Stephanou](#)

University of Crete, Environmental Chemical Processes Laboratory (ECPL),
71003 Voutes-Heraklion, GREECE

03-o-01 CYANOBACTERIA BLOOM IN THE OCCHITO ARTIFICIAL LAKE
(SOUTHERN ITALY): RELATIONSHIP BETWEEN PLANCTOTHRIX
RUBESCENS DENSITY AND MICROCYSTINS CONCENTRATION
[G. Assenato](#), [M. Blonda](#), [B. Cudillo](#), [M.R. Petruzzelli](#), [A.M. Pastorelli](#), and [N. Ungaro](#)

Arpa Puglia, Direzione Generale, 70126 Bari, ITALY

03-o-02 IMPOSEX AND TBT? FIRST REPORTS OF IMPOSEX IN *Hexaplex trunculus*
(Gastropoda: Muricidae) FROM LAMPEDUSA AND LINOSA (CENTRAL
MEDITERRANEAN)

[V. Axiak](#), [R. Guillaumier](#), [A. Vella](#), [B. Aquilina](#), [M. Grech](#), and [A. Scarpato](#)

University of Malta, Dept. of Biology, Msida, MALTA

03-o-03 SUSTAINABLE WATER MANAGEMENT IN DEVELOPING COUNTRIES - A
NEW APPROACH FOR CAPACITY BUILDING THROUGH NETWORKING

[M. Bahadir](#) and [A. Sebastian](#)

Techn. University of Braunschweig, Inst. of Ecol. Chem. and Waste Analysis,
38106 Braunschweig, GERMANY

03-o-04 AFFORDABLE METHOD FOR THE EVALUATION OF REMOVAL RATES
OF PHARMACEUTICAL ACTIVE COMPOUNDS FROM ALTERNATIVE
WASTEWATER TREATMENT PROCESSES

[D. Camacho-Muñoz](#), [J. Martín](#), [J.L. Santos](#), [I. Aparício](#), and [E. Alonso](#)

University of Seville, Dept. of Analytical Chemistry, 41011 Seville, SPAIN

03-o-05 WATER POLLUTION INDUCED BY RAINFED AND IRRIGATED
AGRICULTURE, AT BASIN SCALE

[A. Canatário Duarte](#) and [L. Mateos](#)

Escola Superior Agrária/Instituto Politécnico de Castelo Branco, Depz. of
Rural Engineering, 6001-909 Castelo Branco, PORTUGAL

- 03-o-06 IMPACT OF POLLUTION IN RECENT SEDIMENTS OF THE GABES GULF
[J. Amorri](#), [C. Geffroy Rodier](#), and [M.Ksibi](#)
University of Poitiers, Laboratoire Synthèse et Réactivité des Substances Naturelles, UMR 6514, Poitiers, FRANCE

13.05- 14.30: lunch break

14.30- 16.00: **Session 3 cont.**
(Water quality and pollution)

Chairpersons [C. Geffroy-Rodier](#) and [A.B. Payá-Pérez](#)

- 03-o-07 WATER SAFETY IN SMALL SCALE SUPPLIES AND NEW APPROACHES
[M. Kochubovski](#)
Republic Institute for Health Protection, Department of water and communal hygiene, 1000 Skopje, REPUBLIC OF MACEDONIA
- 03-o-08 REMEDIATION OF GROUNDWATER POLLUTED BY CHLORINATED ORGANICS: THE SYNERGIC EFFECT OF UV/H₂O₂ – ACTIVATED CARBON
[G. Mascolo](#), [R. Ciannarella](#), [A. Lopez](#) and [M. Pagano](#)
Italian National Research Council, Water Research Institute – I.R.S.A., 70123 Bari, ITALY
- 03-o-09 SELECTION OF PRIORITY SUBSTANCES AND ENVIRONMENTAL QUALITY STANDARDS DERIVATION IN THE CONTEXT OF THE EUROPEAN WATER FRAMEWORK DIRECTIVE
[A.B. Payá Pérez](#), [S. Gottardo](#), [K. Daginnus](#), and [J.M. Zaldivar](#)
European Commission, J.R.C. - Ispra, Institute for Health and Consumer Protection, 21020 Ispra (VA), ITALY
- 03-o-10 BIOSORPTION OF CATIONIC DYE (METHYLENE BLUE) ON TO YEAST CULTURE (K.MARXIANUS): KINETICS AND EQUILIBRIUM STUDIES
[M.Sarioglu](#), [C. Deniz](#), and [A. Guler](#)
Cumhuriyet University, Environmental Eng. Dept., 58140 Sivas, TURKEY
- 03-o-11 ELECTROCHEMICAL PROCESS FOR THE TREATMENT OF DRINKING WATER
[Ü. Tezcan Ün](#), [A. Savaş Koparal](#), [Ü.B. Öğütveren](#), and [A. Durucan](#)
Anadolu University, Dept. of Environmental Engineering, 26470 Eskisehir, TURKEY

16.00- 16.20: coffee break

16.20- 18.35: **Session 4**

(Outdoor and indoor air quality and pollution)

Chairpersons L. Klasinc and M. Ragosta

keynote lecture

RATING OF MEDITERRANEAN PHOTOCHEMICAL AIR POLLUTION SITES

L. Klasinc, T. Cvitas, A. De Marco, N. Kezele, and E. Paoletti

Rudjer Boskovic Institute, Dept. of Physical Chemistry, 10002 Zagreb,
CROATIA

04-o-01 MOSSES AS BIOINDICATORS OF TEMPORAL VARIATIONS OF AIR
QUALITY INSIDE BERTIZ NATURAL PARK, NAVARRA, NORTHERN SPAIN

L. Foan, C. Sablayrolles, J.M. Santamaria, and V. Simon

Institute National Polytechnique, Ecole Nationale Supérieure de Chimie,
31077 Toulouse Cedex, FRANCE

04-o-02 PARTICULATE POLLUTION AND HEALTH EFFECTS: A VIEW FROM
SPACE

D.A. Sarigiannis, A. Gotti, N.I. Sifakis, A.J. Karabelas, E. Solomou, S.
Nikolaki, C. Moussiou, and E. Amanatidou

European Commission – Joint Research Centre, Institute for Health and
Consumer Protection, 21020 Ispra (VA), ITALY

04-o-03 NEW PASSIVE SAMPLER “ANALYST” FOR THE MONITORING OF
FORMALDEHYDE IN INDOOR AND OUTDOOR AMBIENT AIR

R. Mabilia, C. Scipioni, F. Villanueva Garcia, and M. C. Tomasi Scianò

C.N.R., Institute for Atmospheric Pollution, 00016 Monterotondo Scalo, ITALY

04-o-04 MODELLING STUDY FOR FORECASTING GASEOUS POLLUTANTS
LEVELS IN A URBAN AREA

M. Ragosta, V. Colajanni, and S. Di Leo

University of Basilicata, Dept. of Environmental Engineering and Physics,
85100 Potenza, ITALY

04-o-05 ANALYZING OF SHIPPING EMISSION AND GROWTH RATE ON THE
STRAIT OF ISTANBUL

C. Deniz, T. Satir, and Y. Durmusoglu

Istanbul Technical University, Maritime Faculty, 34940 Istanbul, TURKEY

- 04-o-06 A GIS-BASED AIR APPROACH FOR ASSESSING THE RELATIONSHIPS BETWEEN AIR POLLUTION AND SOCIAL-ECONOMIC FACTORS IN SHEFFIELD, UK
[H. Xie and S. Hou](#)
University of Sheffield, School of Architecture, S10 2TN Sheffield, U.K.

18.35- 19.35: poster discussion Session 6, 1, and 3

Chairpersons [C. Ciavatta](#) and [D. Kotzias](#)

- 06-p-01 ENVIRONMENTAL IMPACT OF ANTIFOULING PAINTS IN SEAVESSELS AND PREVENTION METHODS FROM HAZARDOUS EFFECTS
[U.B. Celebi](#), [F.T. Akanlar](#), and [N. Vardar](#)
Yildiz Technical University, Naval Architecture and Marine Engineering Dept, 34349 Istanbul, TURKEY
- 06-p-02 RISK ASSESSMENT IN THE CLEANUP SITE OF BRINDISI, ITALY
[L. Bisceglia](#), [A. D'Agnano](#), [E. Calabrese](#), [D. Dell'Atti](#), [B. Valenzano](#), [M. Lacarbonara](#), [A. De Donno](#), [F. Bagordo](#), [A. Basset](#), [M. Blonda](#), and [G. Assennato](#)
Arpa Puglia, Direzione Generale, 70126 Bari, ITALY
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[T. Korolenko](#) and [N. Dmytrukha](#)
Institute for Occupational Health of AMS Ukraine, Dept. of industrial Toxicology, 01033 Kiev, UKRAINE
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[S. Alkoy](#), [A.O. Dogru](#), and [N. Ulugtekin](#)
Istanbul Technical University, Civil Eng. Faculty, 34469 Istanbul, TURKEY

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IMAA-CNR, Lab. of Environmental and Medical Geology, 85050 Tito Scalo (PZ), ITALY
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University of Patras, Dept. of Geology and Environment, 26500 Patras, GREECE
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[D.A. Sarigiannis](#), [S. Karakitsios](#), and [A. Gotti](#)
European Commission – Joint Research Centre, Institute for Health and Consumer Protection, 21020 Ispra (VA), ITALY
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University of Naples, Federico II, Dept. Genetics, General & Molecular Biology, 80134 Napoli, ITALY
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Arpa Puglia, Dipartimento Provinciale Taranto, 74100 Taranto, ITALY

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[K. Movassaghi and B. Moazzez](#)
University of Esfahan, Faculty of Sciences, Department of Chemistry, 81744 Esfahan, IRAN
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Peking University Health Science Center, Dept. of Occupational & Environmental Health, 100191 Beijing, P.R. CHINA
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[D. Romaniello, M. Massabò, and O. Paladino](#)
CIMA Research Foundation, International Centre on Environmental Monitoring, 17100 Savona, ITALY
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[T.A. Shustanova](#)
Rostov State Pedagogical University, Dept. of Biology Total, 344082, Rostov-on-Don, RUSSIA
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University of Piacenza, Institute of Agricultural and Environmental Chemistry, 29100 Piacenza, ITALY
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National Institute of Occupational Safety and Prevention, Dept. Production Plants and Environmental Interaction, 00184 Rome, ITALY
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University of Rome "La Sapienza", Dept. of Animal and Human Biology, 00185 Rome, ITALY

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University of Bari, Pharmacological–Biological Dept., 70010 Valenzano (BA), ITALY
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[F.T. Akanlar](#), [U.B. Celebi](#), and [N. Vardar](#)
Yildiz Technical University, Naval Architecture and Marine Engineering Dept, 34349 Istanbul, TURKEY
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University of Bari, Dipt. di Biologia e Chimica Agroforestale e Ambientale, 70126 Bari, ITALY
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[E.Ü. Deveci](#) and [M. Özyurt](#)
University of Mersin, Dept. of Environmental Engineering, 33343 Mersin, TURKEY
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[V. D'Orazio](#), [D. Mondelli](#), and [N. Senesi](#)
University of Bari, Department of Biol. Chim. Agrof. Amb., 70126 Bari, ITALY
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Selcuk University, Engineering and Architecture, Department of Environmental Engineering, 42031 Konya, TURKEY
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Istituto Agronomico Mediterraneo di Bari, Lab. of Agricultural and Environmental Chemistry, 70010 Valenzano (BA), ITALY

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[M.M. González](#), [J.L. Santos](#), [I. Aparicio](#), and [E. Alonso](#)
University of Seville, Dept. of Analytical Chemistry, 41011 Seville, SPAIN
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[M.K. Islam](#), [D. Mondelli](#), [G. Mimiola](#) and [S. Dumontet](#)
Università degli Studi di Napoli "Parthenope", Dipartimento di Scienze per l'Ambiente, 80133 Napoli, ITALY
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Istanbul Technical University, Civil Engineering Faculty, 34469 Istanbul, TURKEY
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[A. Meola](#), [G. Maisto](#), [A. De Marco](#), and [A. Virzo De Santo](#)
Università di Napoli Federico II, Dipartimento Biologia Strutturale e Funzionale, 80126 Napoli, ITALY
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[I. Yilmaz](#), [M. Yildirim](#), and [B. Topkaya](#)
Akdeniz University, Dept. of Environmental Engineering, 07058 Antalya, TURKEY
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[S. Karoune](#), [M.S.A. Kechebar](#), and [C. Rahmoune](#)
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University Sultan Moulay Slimane, Dept. of Biology, 23000 Beni mellal, MOROCCO
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Ankara University, Dept. of Chemical Engineering, Ankara, TURKEY
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National Research Center, Agricultural division, Field Crop Research Department, 12611 Giza, EGYPT
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[M. Abdallah](#)
National Institute of Oceanography and Fisheries, Marine Environment-Pollution Lab, 21411 Alexandria, EGYPT
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[A. Akay](#), [M. Bas](#), and [S. Dursun](#)
Selcuk University, Department of Soil Science, Konya, TURKEY
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[M. Aksu](#), [A. Kaymakci Basaran](#), and [O. Egemen](#)
Ege University, Fisheries Faculty, Dept. of Hydrobiology, 35100 Bornova - Izmir, TURKEY

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University of Ioannina, Dept. of Chemistry, Ioannina 45110, GREECE
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[Ch.I. Kosma](#), [D.A. Lambropoulou](#), and [T.A. Albanis](#)
University of Ioannina, Dept. of Chemistry, Ioannina 45110, GREECE
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[G. Kyriacou](#), [E. Loizou](#), [M. Aletrari](#), and [St. Canna-Michaelidou](#)
Ministry of Health, State General Laboratory, 1451 Nicosia, CYPRUS
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Arpa Puglia, Direzione Generale, 70126 Bari, ITALY
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Arpa Puglia, Direzione Generale, 70126 Bari, ITALY
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[L. Penko](#) and [O. Bajt](#)
National Institute of Biology, Marine Biological Station, 6330 Piran, SLOVENIA
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[A. Barra Caracciolo](#), [V. Ancona](#), [P. Grenni](#), [D.E. Bruno](#), [F. Falconi](#), and [V.F. Uricchio](#)
National Research Council, Water Research Institute, 00016 Monterotondo Scalo (RM), ITALY

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[A. Kaymakçı Başaran](#), [O. Egemen](#), [B. Yağmur](#), [H. Hakerlerler](#), and [M. Aksu](#)
Ege Universit, Fisheries Faculty, Dept. of Hydrobiology, 35100 Bornova - Izmir, TURKEY
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[B. Beler Baykal](#), [A. D. Allar](#), and [A. Atacan Ogut](#)
Istanbul Technical University, Dept. of Environmental Engineering, Istanbul, TURKEY
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Atatürk University, Dept. of Environmental Engineering, 25240 Erzurum, TURKEY
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ECOBIOS Italia, SRL, Dept of. Bio-Engineering, Roma, ITALY
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Research Institute of the Azov Sea Fishery Problems (AzNIIRKH), Rostov-on-Don, 344007, RUSSIA
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Research Institute of the Azov Sea Fishery Problems (AzNIIRKH), Rostov-on-Don, 344007, RUSSIA
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CNR, Institute for Coastal Marine Environment, 74100 Taranto, ITALY
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University of Molise, STAT Dpt., 86090, Pesche (IS), ITALY

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[S. Triantafyllaki](#), [M. Dassenakis](#), [V. Paraskevopoulou](#), and [N. Giannikopoulos](#)
University of Athens, Lab. of Analytical Chemistry, 15771 Athens, GREECE
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University of Athens, Lab. of Analytical Chemistry, 15771 Athens, GREECE
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University of Athens, Lab. of Analytical Chemistry, 15771 Athens, GREECE
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University of Athens, Lab. of Analytical Chemistry, 15771 Athens, GREECE
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[M.C. Caputo](#), [L. De Carlo](#), and [F. De Benedictis](#)
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[A.M. De Girolamo](#) and [A. Lo Porto](#)
Italian National Research Council, Water Research Institute – I.R.S.A., 70123 Bari, ITALY
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[M. Blonda](#), [M.C. De Mattia](#), [U. Fratino](#), and [A.M. Lotito](#)
Arpa Puglia, Direzione Scientifica, 70126 Bari, ITALY
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[E. Subaşı](#) and [N. Doğan-Sağlamtimur](#)
Nigde University, Faculty of Engineering and Architecture, Dept. of Environmental Engineering, 51245 Nigde, TURKEY

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[P. Fine, A.O. Bar-Shalom, D. Markel, and N. Atzmon](#)
Volcani center, ARO, Institute of Soil, Water and Environmental Sciences, 50250 Bet-Dagan, ISRAEL
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[M. Francavilla, D. Di Pietro, and P. Trotta](#)
National Research Council, Institute of Marine Science, 71010 Lesina (FG), ITALY
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[A. Baglieri, M. Gennari, D. Tabuani, and C. Abbate](#)
University of Catania, DACPA, Scienze Agrochimiche, 95123 Catania, ITALY
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[A. Gheris](#)
Université de Souk Ahras, Laboratoire INFRARES, Souk Ahras 41000, ALGERIE
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[M. Glowacki and T. Ciesielczuk](#)
Opole University, Department of Land Protection, 45-074 Opole, POLAND
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[M. Glowacki and I. Pisarek](#)
Opole University, Department of Land Protection, 45-074 Opole, POLAND
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Venice Research Consortium, 30175 Venezia Marghera, ITALY
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[T. F. Hassanein and B. Koumanova](#)
University of Chemical Technology and Metallurgy, Dept. of Chemical Engineering, 1756 Sofia, BULGARIA

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[H. Ibrikci](#), [M. Cetin](#), [E. Karnez](#), [C. Kirda](#), [S. Topcu](#), [J. Ryan](#), [H. Oguz](#), [E. Oztekin](#), and [M. Dingil](#)
Cukurova University, Dept. of Soil Science, 01330 Adana, TURKEY
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[K. Ioannou](#), [D. Mironidis](#), [P. Lefakis](#), and [D. Stathis](#)
Aristotle University of Thessaloniki, Dept. of Forestry and Natural Environment, 54124 Thessaloniki, GREECE
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[A. Yilmaz](#), [E. Aydın](#), [Ö. Oruç](#), and [M. Işık](#)
Aksaray University, Environmental Eng. Department, 68100 Aksaray, TURKEY
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Istanbul Technical University, Civil Engineering Faculty, 34469 Istanbul, TURKEY
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[O. Tünay](#), [E. Kocabas](#), [T. Olmez-Hanci](#), and [I. Kabdaşlı](#)
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[M. Karatas](#), [S. Dursun](#), and [M.E. Argun](#)
Selcuk University, Environmental Engineering Department, 42031 Konya, TURKEY
- 03-p-042 MANAGEMENT OF AOOS RIVER WATER RESOURCES IN THE GREEK-ALBANIAN TRANS-BORDER AREA.
[P. Kassomenos](#), [S. Karakitsios](#), and [A. Kellesis](#)
University of Ioannina, Dept. of Physics, Ioannina 45110, GREECE
- 03-p-043 THE IMPACT OF WASTEWATER TREATMENT IN THE BASIN OF PORT DURRES
[E. Veizaj](#), [E. Sallaku](#), and [J. Kolutari](#)
Laboratory Fishing and Aquaculture, 65555 Durres, ALBANIA

- 03-p-044 FEASIBILITY AND ENVIRONMENTAL CONSIDERATIONS OF VARIOUS WATER SUPPLY METHODS. CASE STUDY: REUSE OF WATER EFFLUENT FROM WASTEWATER TREATMENTS PLANTS
[E. Kondili](#), [J.K. Kaldellis](#), [C. Papapostolou](#), [G. Asimakis](#), [S. Savvidis](#)
TEI of Piraeus, Dept. of Mech. Engineering, 122 44 Aegaleo, GREECE
- 03-p-045 SIMULTANEOUS DETERMINATION OF SULFADIAZINE, OXOLINIC ACID, TRIMETHOPRIM AND OXYTETRACYCLINE IN SURFACE WATER SAMPLES
[P. E. Beza](#), [C. D. Stalikas](#), and [C. N. Konidari](#)
University of Ioannina, Dept. of Chemistry, Ioannina 45110, GREECE
- 03-p-046 HEAVY METAL REMOVAL FROM WATER USING ZEOLITES
[F. Kunt](#) and [Ş. Dursun](#)
Selcuk University, Dept. of Environmental Engineering, 42031 Konya, TURKEY
- 03-p-047 Cd, Ni AND Pb VERTICAL DISTRIBUTION IN SEDIMENT CORES FROM THE ELEFSIS GULF (ATTIKI, GREECE)
[M. Ladakis](#), [L. Haralambides](#), and [F. Sakellariadou](#)
University of Athens, Lab. of Analytical Chemistry, 15771 Athens, GREECE
- 03-p-048 CONTRIBUTION TO THE STUDY OF THE REMOVAL OF SOME DYE DISCHARGES BY BIOADSORPTION
[B. Lekhlif](#), [H. Hanine Sebti](#), [I. Laasri](#), and [A. Taoufik](#)
Hassania of Schol of public works, Department Environmental Engeneering, Casablanca, MOROCCO
- 03-p-049 COMPARING ZERO VALENT IRON AND MODIFIED ZEOLITE METHODS IN NITRATE REMOVAL FROM AGRICULTURAL WASTEWATER
[Y. Sheikhmohamadi](#), [A. Liaghat](#), and [A. Mahdavi](#)
Imam Khmeini Internatinal University, Dept. of Irrigation and Drainage, Qazvin, IRAN
- 03-p-050 EFFECTS OF WASTEWATER AND AGRICULTURAL ACTIVITIES IN THE WATER QUALITY OF SARANDA BAY
[J. Malltezi](#), [A. Bani](#), [M. Karajani](#), [V. Dini](#), [A. Boçari](#), and [S. Sulçe](#)
Agricultural University of Tirana, Dept. of Agrienvironment and Ecology, Tirana, ALBANIA
- 03-p-051 THE POLLUTION OF RIVER GJANICA FROM UNDER PRODUCTS OF OIL, ALBANIA
[H. Mankolli](#), [M. Cekani](#), [N. Bardhi](#)
Agricultural University of Tirana, Dept. of Agro-Environment and Ecology, 00355 Tirane, ALBANIA

- 03-p-052 CHARACTERIZATION AND TOXICITY OF SEDIMENTS IN THE RIVER VERDE BASIN (MÁLAGA, S SPAIN)
[F. Martín](#), [M. Diez](#), [A. Espejo](#), [M. Escoto](#), [J. Fernández](#), [C. Dorronsoro](#), [J. Aguilar](#), and [E. Fernández](#)
University of Granada, Soil Science Department, 18071 Granada, SPAIN
- 03-p-053 A PROBABILISTIC APPROACH TO ASSESSING GROUNDWATER CONTAMINATION
[E. Barca](#), [A. Castrignanò](#), [R. Masciale](#), and [G. Passarella](#)
CNR-IRSA, Water Research Institute, 70123 Bari, ITALY
- 03-p-054 CHARACTERISTICS OF THE SEDIMENT UNDER THE CANOPY OF INVASIVE ALGA *Caulerpa racemosa* var. *cylindracea*
[S. Matijević](#), [A. Žuljević](#), [D. Bogner](#), [M. Despalatović](#), [B. Antolić](#), and [V. Nikolić](#)
Institute of Oceanography and Fisheries, Laboratory of chemical oceanography and sedimentation of the sea, 21000 Split, CROATIA
- 03-p-055 PROTECTIVE EFFECT OF DISSOLVED ORGANIC CARBON ON COPPER TOXICITY IN URBANIZED RIVERWATER
[M. Mingazzini](#) and [M.T. Palumbo](#)
CNR - IRSA, Water Research Institute, 20047 Brugherio - Milano, ITALY
- 03-p-056 SPATIAL AND TEMPORAL TRANSPARENCY VARIABILITY IN THE EASTERN ADRIATIC SEA
[M. Morović](#), [R. Precali](#), [B. Grbec](#), and [S. Matijević](#)
Institute of Oceanography and Fisheries, Dept. of Physical Oceanography, 21000 Split, CROATIA
- 03-p-057 REMOVAL OF MONURON AND ORTHO-PHENYL PHENOL FROM WATER BY SORPTION ONTO TWO MONTMORILLONITE CLAYS
[H. Mountacer](#), [L. Tajeddine](#), and [M. Sarakha](#)
Faculty of Sciences and Technology, Dept. of Applied Chemistry and Environment, 26000 Settat, MOROCCO
- 03-p-058 SUN LIGHTACTIVE TiO₂/APPATITE NANO-COMPOSITE AND ITS APPLICATION FOR CONCRETE WALLOF WATER CHANNELS FOR WASTE TREATMENT
[K.Movassaghi](#), [P. Nourpour](#), [B. Moazzez](#), [M. Hamdi](#), [K. Shabani](#), and [S. Shakhesi](#)
University of Esfahan, Faculty of Sciences, Department of Chemistry, 81744 Esfahan, IRAN

- 03-p-059 USING SYSTEM DYNAMICS TO SIMULATION OF QUANTITY AND QUALITY OF DRAIN WATER IN UNSTEADY STATE CONDITION
[H. Nozari](#), [A. Liaghat](#), and [M. Kholghi](#)
University of Tehran, Dept. of Irrigation and Reclamation Engineering, 0098 Karaj, IRAN
- 03-p-060 WASTEWATER CHARACTERIZATION AND MICROBIAL DIVERSITY OF TEXTILE INDUSTRY WASTEWATER TREATMENT SYSTEM
[N. Ogleni](#), [S. Ovez](#), and [O. Ogleni](#)
Sakarya University, Dept. of Environmental Engineering, 54040 Sakarya, TURKEY
- 03-p-061 AN OIL SPILL DISTRIBUTION SIMULATION STUDY FOR AN INDUSTRIAL COASTAL ZONE
[M.S. Kabdaşlı](#), [S.E. Kaçmaz](#), [B. Baş](#), and [E. Oğuz](#)
Istanbul Technical University, Civil Engineering Faculty, Istanbul, TURKEY
- 03-p-062 EFFECTS OF SOLAR RADIATION ON THE DISAPPEARANCE OF BENFLURALIN, PROPYZAMIDE AND PENDIMETHALIN IN DRINKING AND DEPURATED WATER
[J. Oliva](#), [I.M. Guillén](#), [P. Payá](#), [M.L. García](#) and [A. Barba](#)
University of Murcia, Dept. of Agricultural Chemistry, Geology and Pedology, 30100 Murcia, SPAIN
- 03-p-063 ELIMINATION OF TRIAZINE HERBICIDES BY INERT MATERIALS IN WATER. TRIALS IN LABORATORY CONDITIONS
[J. Oliva](#), [L. Liza](#), [M.C. García](#), [P. Payá](#), [M.L. García](#), and [A. Barba](#)
University of Murcia, Dept. of Agricultural Chemistry, Geology and Pedology, 30100 Murcia, SPAIN
- 03-p-064 TURKISH WETLAND PROBLEMS: A CASE STUDY BEYŞEHİR SAMPLE
[S. Onder](#) and [S. Dursun](#)
Selcuk University, Landscape Dept., 42003 Konya, TURKEY
- 03-p-065 CHEMOMETRIC CHARACTERIZATION OF GROUNDWATER QUALITY FROM DIFFERENT WELLS – DRINKING WATER SUPPLIERS
[I. Rigas](#), [E. Dovriki](#), [N. Rigas](#), [A.G. Paliatsos](#), [P. Plageras](#), and [A. Papaioannou](#)
Educational & Technological Institute of Larissa, Medical Laboratories, 41110 Larissa, GREECE
- 03-p-066 APPLICATION OF CHEMOMETRIC METHODS IN ANALYSIS OF POTABLE WATER QUALITY DATA
[Ch. Makridis](#), [E. Dovriki](#), [I. Rigas](#), [N. Rigas](#), [P. Plageras](#), and [A. Papaioannou](#)
Educational & Technological Institute of Larissa, Medical Laboratories, 41110 Larissa, GREECE

- 03-p-067 DISSOLVED OXYGEN AND NUTRIENT DYNAMICS IN ANTIKYRA BAY, KORINTHIAKOS GULF, GREECE
[A. Pavlidou](#) and [R. Psyllidou-Giouranovits](#)
Hellenic Center for Marine Research, Inst. of Oceanography, 19013 Anavyssos - Athens, GREECE
- 03-p-068 ASSESSMENT OF WATER QUALITY FROM INORGANIC AND TRACE ORGANIC COMPOSITION AT AN AGROFORESTRY CATCHMENT IN ATLANTIC EUROPE
[A. Santana](#), [E. Vázquez](#), [J. Paz-Ferreiro](#), and [M. Beretta](#)
University of Corunna, Dept. of Soil Science, 15071 La Coruña, SPAIN
- 03-p-069 TRACE POLYCHLORINATED BIPHENYLS (PCBs) COMPOUNDS IN SEDIMENT FROM THE SÃO FRANCISCO RIVER, BRAZIL.
[A. Santana](#), [E. Vidal Vázquez](#), [J. Paz-Ferreiro](#), and [M. Beretta](#)
University of Corunna, Dept. of Soil Science, 15071 La Coruña, SPAIN
- 03-p-070 HEAVY METAL CONTAMINATION IN WATERS FROM AN ABANDONED MINING AREA (SE, SPAIN)
[C. Pérez-Sirvent](#), [M.J. Martínez-Sánchez](#), [M.L. García-Lorenzo](#), [J. Molina](#) and [M. Hernandez-Cordoba](#)
University of Murcia, Department of Agricultural Chemistry, Geology and Pedology, 30100 Murcia, SPAIN
- 03-p-071 EVALUATION OF THE TOXICITY OF WATERS POLLUTED BY MINING ACTIVITIES
[M.L. García-Lorenzo](#), [M.J. Martínez-Sánchez](#), [C. Pérez-Sirvent](#), and [J. Molina](#)
University of Murcia, Department of Agricultural Chemistry, Geology and Pedology, 30100 Murcia, SPAIN
- 03-p-072 QUANTITY AND QUALITY OF HUMIC SUBSTANCES EXTRACTED FROM GROUND WATER FROM GZWP 333 AREA (OPOLE DISTRICT, POLAND)
[I. Pisarek](#) and [M. Glowacki](#)
Opole University, Department of Land Protection, 45-074 Opole, POLAND
- 03-p-073 INFLUENCE OF pH ON EQUILIBRIUM CONCENTRATION OF Cu IN BED RIVER SEDIMENTS FROM A CATCHMENT DEVOTED TO VINEYARD
[J.A. Rodriguez Suarez](#) and [B. Soto](#)
University of Vigo, Department of Plant Biology and Soil Science, 32004 Ourense, SPAIN

- 03-p-074 CONTRIBUTION OF CAR, TRUCK, BUS AND SUBWAY WASHES STATIONS DISCHARGE TO STORM WATER POLLUTION (TOULOUSE, FRANCE)
[C. Sablayrolles, C. Vialle, A. Breton, C. Cecutti, C. Vignoles, and M. Montréjaud-Vignoles](#)
University of Toulouse, Laboratoire de Chimie Agro-Industrielle, 31077 Toulouse Cedex, FRANCE
- 03-p-075 FLUORESCENCE CHARACTERISATION OF ORGANIC MATTER RELEASED FROM MESSINIAKOS GULF SEDIMENTS
[F. Sakellariadou, V. D'Orazio, and N. Senesi](#)
University of Piraeus, Dept. of Maritime Studies, 18532 Pireaus, GREECE
- 03-p-076 PHYSICAL, CHEMICAL AND BIOLOGICAL PROPERTIES OF WATER COLUMN AND SEDIMENT AT THE FISH FARMS IN THE MIDDLE ADRIATIC, CASE STUDY – ZADAR COUNTY
[J. Šangulin, A. Babin, and Z. Škrgatić](#)
Institute of Public Health, 23000 Zadar, CROATIA
- 03-p-077 AN EVALUATION OF THE MUSLE EROSION MODEL FOR THE ESTIMATION OF SEDIMENT YIELD UNDER EXTREME STORM EVENT CONDITIONS
[M. Sapountzis, T. Papathanasiou, D. Myronidis, D. Stathis, I. Aggelakopoulos and P. Stefanidis](#)
Aristotle University of Thessaloniki, Dept. of Forestry and Natural Environment, 54124 Thessaloniki, GREECE
- 03-p-078 REMOVAL OF COPPER AND CATIONIC DYE FROM WASTEWATERS BY USING ZEOLITE
[M. Sarioglu and C. Deniz](#)
Cumhuriyet University, Environmental Eng. Dept., 58140 Sivas, TURKEY
- 03-p-079 INVESTIGATION OF CONSCIOUS LEVEL OF PUBLIC ABOUT THE MARINE POLLUTION BY MEANS OF GIS
[D.Z. Seker and N. Sivri](#)
ITU, Istanbul Technical University, Geomatics Engineering Department, 34469 Maslak, Istanbul, TURKEY
- 03-p-080 SPECIATION ANALYSES OF HEAVY METALS IN LAGOON SEDIMENTS OF ADRIATIC SEA, ALBANIA
[A. Shehu, P. Lazo, A. Cullaj, J. Shehu, and L. Pjeshkazini](#)
University of Tirana, Fac. of Natural Sciences, Dept. of of Chemistry, Tirana, ALBANIA

- 03-p-081 ASSESSMENT OF LAND USE CHANGE EFFECT ON REGIONAL HYDROLOGY
[D. Stathis, M. Sapountzis, and D. Mironidis](#)
Aristotle University of Thessaloniki, Dept. of Forestry and Natural Environment, 54124 Thessaloniki, GREECE
- 03-p-082 TOOLS FOR THE ASSESSMENT OF INDUSTRIAL WASTE
[S. Tireche and A. Taira](#)
University M'hamed Bougara Boumerdès, Petrochemical Synthesis Laboratory: Ergonomics and Environmental Protection, 35 000 Boumerdès, ALGERIE
- 03-p-083 THE EFFECT OF ORGANIC AND INORGANIC MATTERS ON THE OXIDATION OF Fe (II) IN OMERLI DAM RAW WATER
[A. Unal, N. Tüfekci, M. Cakmakci, and C. Kinaci](#)
Istanbul University, Dept. of Environm. Engineering, 80626 Istanbul, TURKEY
- 03-p-084 TREATMENT OF SEA WATER BY REVERSE OSMOSIS TECHNIQUE TO PRESENT DRINKING WATER
[B. Tuncel and S. Dursun](#)
Selcuk University, Environmental Engineering Department, 4203 Konya, TURKEY
- 03-p-085 ALUMINUM CONCENTRATION IN DRINKING WATER IN BOVILLA WATER TREATMENT PLANT
[V. Vorpsi, V. Vladi, M. Cara, J. Merkuri, L.Kupe, and L.Vladi](#)
Agricultural University of Tirana, Dept. of Plant Production, 1011 Tirana, ALBANIA
- 03-p-086 EXCESS OF FLUORIDE IN GROUNDWATER IN POLONNARUWA DISTRICT OF SRI LANKA AND ITS EFFECT ON HUMAN HEALTH
[A.K. Wickramasooriya](#)
South Eastern University of Sri Lanka, Faculty of Applied Sciences, Earth Science Division, Sammanthurai (E.P), SRI LANKA
- 03-p-087 TREATABILITY OF DOMESTIC WASTEWATER BY ANAEROBIC BAFFLED REACTORS WITH DIFFERENT INOCULUMS
[C. Yangin Gomec, B. Horasan, E. Gunes, E. Ozyurek, L. Akca, and S. Ayaz](#)
Istanbul Technical University, Environ. Engineering Dept., 34469 Maslak, Istanbul, TURKEY
- 03-p-088 IN CASE OF LIMITED DATA, PREDICTION OF N AND P LOADS TO RECEIVING WATER ORIGINATING FROM DIFFUSE POLLUTION SOURCES
[A.Ugurluoglu and M.Yazgan](#)
Istanbul Technical University, Fac. of Civil Engineering, Istanbul, TURKEY

- 03-p-089 ASSESSING ENVIRONMENTAL IMPACTS OF WASTEWATER TREATMENT ALTERNATIVES FOR SMALL SCALE COMMUNITIES
[M. Yildirim and B. Topkaya](#)
Akdeniz University, Faculty of Engineering, Dept. of Environ. Engineering, 07058 Antalya, TURKEY
- 03-p-090 EFFECT STASH URBAN GARBAGE IN WATER SURFACE QUALITY (CASE STUDY: ALIMALAT WATERSHED IN IRAN NORTH)
[M. Zare and M.M. Saravy](#)
University of Tehran, Faculty of Natural Resources, Tehran, IRAN
- 03-p-091 ADSORPTION OF REACTIVE DYE ON TO MODIFIED YAVU ZEOLITE
[M.Sarioglu, A.Guler, and Y.Cebeci](#)
Cumhuriyet University, Environmental Eng. Dept., 58140 Sivas, TURKEY
- 03-p-092 EVALUATION OF SEVERAL PHYSICAL-CHEMICAL INDICATORS IN THE ECOSYSTEM OF OHRI LAKE
[H. Mankolli, M. Cekani, and N. Aceska](#)
Agricultural University of Tirana, Dept. of Agro-Environment and Ecology, 00355 Tirane, ALBANIA
- 03-p-093 REMOVAL OF METAL IONS FROM CONTAMINATED WATER USING ACTIVATED CARBON PREPARED FROM AGRICULTURAL RESIDUE
[G.E.Sharaf El-Deen and A. El-Khalafawy](#)
Atomic Energy Authority, Hot Lab. Centre, Waste Management Dept., P.O. 13759 Khaluobea, Cairo, EGYPT
- 03-p-094 DETERMINATION OF SOME HEAVY METALS, CHLORINATED HYDROCARBONS AND PAHS IN THE SALT AND WATER FROM THE AL JABBOUL SALINE OF SYRIA
[M. Kamal and H. Parlar](#)
Al Andalus University, Faculty of Pharmacy, Al Qadmous, SYRIA
- 03-p-095 INTERPRETATION OF CONTAMINANT TRANSPORT PHENOMENA BY MEANS OF DETAILED GEOLOGICAL MODEL
[C. Cherubini and N. Pastore](#)
Politecnico di Bari, Dipartimento di Ingegneria delle Acque e della Chimica, 70100 Bari, ITALY
- 03-p-096 SEASONAL POPULATION VARIATION IN TOURISTIC AREAS AND ITS IMPLICATION ON WASTEWATER MANAGEMENT – A CASE STUDY FROM THE EASTERN MEDITERRANEAN REGION
[B. Beler Baykal, A.D. Allar, and A. Atacan Ogut](#)
Istanbul Technical University, Dept. of Environmental Engineering, Istanbul, TURKEY

- 03-p-097 THE ASSESSMENT OF THE WATER QUALITY USING THE IBMR IN VAL D'AGRI'S RIVER (BASILICATA-SOUTHERN ITALY)
[M. Casamassima](#), [G. Potenza](#), [T. Trabace](#), and [A. Palma](#)
Metapontum Agrobios, Research Center, 75010 Metaponto (MT), ITALY
- 03-p-098 INVESTIGATING AN AUXILIARY CHEMICAL
[T. Tezgel](#), [F. Germirli Babuna](#), and [G. Iskender](#)
Istanbul Technical University, Environmental Engineering Dept., 80626 Maslak, Istanbul, TURKEY
- 03-p-099 CHARACTERISATION OF NATURAL ORGANIC MATTER (NOM) IN KRKA RIVER (CROATIA) BY 3D-FLUORESCENCE FOLLOWING WITH SIGNAL TREATMENT TECHNIQUE PARAFAC
[H. Zhao](#), [R. Redon](#), [C. Garnier](#), [I. Pižeta](#), and [S. Mounier](#)
Université du Sud Toulon Var, Laboratoire PROTEE, 83957 La Garde cedex, FRANCE
- 03-p-100 NATURAL AND ANTHROPOGENIC POLLUTION OF GROUNDWATER IN VOLCANIC AREAS OF CENTRAL ITALY
[G. Zappa](#) and [C. Zoani](#)
ENEA, Department of Biotechnologies, Agro-industry and Health Protection, 00123 Rome, ITALY
- 03-p-101 MONTHLY EVALUATION OF HOMA LAGOON (IZMIR BAY, AEGEAN SEA) WITH POLLUTION PARAMETERS
[B. Kutlu](#), [E.E. Yurur](#), and [H.B. Buyukisik](#)
Ege University, Fisheries Faculty, 35100 Bornova - Izmir, TURKEY
- 03-p-102 REMOVAL OF PHENOLIC COMPOUNDS FROM MODEL SOLUTIONS USING MICELLAR ENHANCED ULTRAFILTRATION
[A. Hafidi](#), [A. El-Abbassi](#), and [J. Hoinkis](#)
Cadi Ayyad University, Faculty of Sciences-Semalia, Food Science laboratory, 40090 Marrakech, MOROCCO

19.35 poster removal Sessions 6, 1, and 3
poster placement Sessions 2, 5, and 7

19.35 General Assembly of MESAEP

Friday, Oct. 9th

08.30 Registration continued; poster placement Sessions 2, 5, and 7

08.30 - 10.30 Session 2
Soil quality, pollution, degradation and desertification

Chairpersons C. Plaza and C. Zaccone

keynote lecture

USE OF CLAYS AND ORGANIC AMENDMENTS FOR SOIL QUALITY IMPROVEMENT

[J. Cornejo](#)

IRNAS-C.S.I.C., Dept. of Agrochemistry And Soil Conservation, 41080 Sevilla, SPAIN

02-o-01 POTENTIAL TOXIC RISK FROM SOIL ELEMENTS IN AN ALBANIAN ULTRAMAFIC TOPOSEQUENCES

[A. Bani](#), [G. Echevarria](#), [U Abazi](#), [S. Sulçe](#), and [JL. Morel](#)

Agricultural University of Tirana, Agrienvironment Dept., Tirane, ALBANIA

02-o-02 A NEW BaPS-13C STABLE ISOTOPE TECHNIQUE FOR MEASURING GROSS NITRIFICATION RATES IN ALKALINE AGRICULTURAL SOILS

[R. Bisharat](#), [J. Ingwersen](#), [C. F. Stange](#), [X. Ju](#), and [T. Streck](#)

University of Hohenheim, Institute of Soil Science / Biogeophysics Section, 70599 Stuttgart, GERMANY

02-o-03 THE INFLUENCE OF SOIL PHYSICO-CHEMICAL PROPERTIES ON CARVACROL FATE, MOBILITY AND PHYTOTOXIC ACTIVITIES

[I. Cavoski](#), [E. Wehbe](#), [Z. Al Chami](#), [A. Aly](#), [D. Mondelli](#), [L. Albitar](#), and [G. Demastro](#)

Istituto Agronomico Mediterraneo di Bari - CIHEAM, Organic Farming - Residues Laboratory, 70010 Valenzano (Bari), ITALY

02-o-04 FOREST FIRE AND SOIL EROSION ON MEDITERRANEAN TYPE ECOSYSTEMS. A LONG TERM RAINFALL SIMULATION APPROACH

[A. Cerdà](#), [M.B. Bodí](#), and [A. Giménez-Morera](#)

University of Valencia, Dept. of Geography, 46010 Valencia, SPAIN

02-o-05 FATE OF PHARMACEUTICAL COMPOUNDS IN SOILS IRRIGATED WITH RECLAIMED WASTEWATER

[B. Chefetz](#), [A. Maoz](#), [R. Navon](#), [D. Harush](#), and [M. Shenker](#)

Hebrew University of Jerusalem, Dept. Soil and Water Science, Rehovot 76100, ISRAEL

10.30 - 10.50 coffee break

10.50 - 12.35 Session 2 cont.

Soil quality, pollution, degradation and desertification

Chairpersons A. Cerda and B. Chefetz

- 02-o-06 MONITORING OF HEAVY METALS POLLUTED SOILS BY LASER INDUCED BREAKDOWN SPECTROSCOPY (LIBS)
M. Dell'Aglio, A. De Giacomo, G.S. Senesi, R. Gaudioso, O. De Pascale, M. Capitelli, C. Zaccone, T.M. Miano
CNR-IMIP sez. Bari, 70126 Bari, ITALY
- 02-o-07 PHYSICOCHEMICAL, BIOLOGICAL AND ECOTOXICOLOGICAL ASSESSMENT OF PAH-CONTAMINATED SOILS DURING BIOREMEDIATION
H. Hamdi, S. Benzarti, L. Manusadžianas, I. Aoyama, and N. Jedidi
Water Research and Technology Center, Borj Cedria TechnoPark, Soliman 8020, TUNISIA
- 02-o-08 IMPACT OF LAND USE ON HEAVY METAL FRACTIONATION IN SOILS AND STREAM SEDIMENTS IN THE ISTRIAN-LITTORAL RIVER BASIN, CROATIA
S. Miko, O. Hasan, M. Šparica Miko, S. Mesić, H. Crnojević, T. Marković, and N. Ilijani
Croatian geological survey, Zagreb 10000, CROATIA
- 02-o-09 HUMIC ACIDS MAY FAVOUR THE PERSISTENCE OF HEXAVALENT CHROMIUM IN SOILS
A. Margon and L. Leita
Agricultural Research Council, Research Center for Soil-Plant System, 34170 Gorizia, ITALY
- 02-o-10 EFFECTS OF DIFFERENT CULTURE SYSTEMS ON THE BDE-209 CONCENTRATION DECREASE IN POLLUTED SOILS
P. Maggio, M.D.R. Pizzigallo, M. Spagnuolo, N. Carella, and P. Ruggiero
Università degli Studi di Bari, Dept. of Agroforestry and Environmental Biology and Chemistry, 70126 Bari, ITALY
- 02-o-11 DEVELOPMENT OF A SUSTAINABLE PLAN TO COMBAT EROSION FOR AN ISLAND OF THE MEDITERRANEAN REGION
D. Myronidis, D. Ioannou, M. Sapountzis, and D. Fotakis
Technological Educational Institute of Kavala, Dept. of Forestry and Natural Environment Management, 66100 Drama, GREECE

12.35-13.05 Session 5
Crops and food quality and pollution

Chairpersons [E.M. Abd El Lateef](#) and [E. Loffredo](#)

keynote lecture

CHEMICAL POLLUTION IN CROPS AND FOOD

[I. Malollari](#)

Faculty of Natural Sciences, University of Tirana, Albania

13.05 - 14.30 lunch break

14.30 - 16.15 Session 5 cont.
Crops and food quality and pollution

Chairpersons [E.M. Abd El Lateef](#) and [E. Loffredo](#)

05-o-01 EVALUATION OF SEWAGE SLUDGE AS A SOURCE OF PLANT NUTRIENTS AND ITS IMPACT ON HUMAN HEALTH IN MEDITERRANEAN ENVIRONMENTS

[E.M. Abd El Lateef](#), [J.E. Hall](#), and [S.R. Smith](#)

National Research Center, Agricultural division, Field Crop Research Department, 12611 Giza, EGYPT

05-o-02 PREVALENCE OF VIRULENCE GENES IN ESCHERICHIA COLI ISOLATED FROM FOOD IN CASABLANCA (MOROCCO)

[S. Badri](#), [I. Filliol](#), [I. Carle](#), [M. Hassar](#), [A. Fassouane](#), and [N. Cohen](#)

Pasteur Institute of Morocco, Laboratory of Microbiology and Hygiene of Food and Environment, 20100 Casablanca, MOROCCO

05-o-03 IMPACT OF SOUR EL GHOZLANE'S CEMENT PLANT'S EMISSIONS ON SOIL AND VEGETATION

[Y. Bellout](#)

Université des Sciences et de la Technologie Houari Boumediène, 16453 Bab Ezzouar, ALGERIE

05-o-04 SUPRAMOLECULAR ORGANIZATION OF TRIGLYCERIDES IN EXTRA-VIRGIN OLIVE OILS AS ASSESSED BY HIGH AND LOW FIELD NMR SPECTROSCOPIES

[C. De Pasquale](#), [P. Conte](#), [A. Maccotta](#), [E. Palazzolo](#), [C. Finoli](#), and [G. Alonzo](#)

Università degli Studi di Palermo, Dipartimento di Ingegneria e Tecnologie Agro Forestali, 90128 Palermo, ITALY

- 05-o-05 RISKS FOR HERBIVORES CONSUMING PLANT SPECIES GROWING AT ABANDONED MINE SITES
[J. Pastor](#), [M^a J. Gutiérrez](#), and [A. J. Hernández](#)
University of Alcalá de Henares, Dept. of Ecology, 28871 Alcalá de Henares (Madrid), SPAIN
- 05-o-06 EFFECT OF IRON DEFECIENCY ON THE ANTIOXIDANT DEFENCE OF TWO PISUM SATIVUM CULTIVARS
[N. Jelali](#), [G. Zocchi](#), [C. Abdelly](#), and [M. Gharsalli](#)
Borj Cedria Biotechnology Centre, Laboratoire d'Adaptation des Plantes aux Stress Abiotiques, 2050 Hammam-lif, TUNISIA
- 05-o-07 PHYTOREMEDIATION OF WATERS POLLUTED WITH THE ENDOCRINE DISRUPTOR COMPOUND BISPHENOL A
[E. Gattullo](#), [E. Loffredo](#), [A. Traversa](#), and [N. Senesi](#)
Università degli Studi di Bari, Dipt. di Biologia e Chimica Agro-Forestale ed Ambientale, 70126 Bari, ITALY

16.15 - 16.35 coffee break

16.35 - 18.20 Session 7
Animal health risks

Chairpersons [M. Udovic](#)

keynote lecture

IMPACT OF ENVIRONMENTAL POLLUTION ON ANIMAL HEALTH AND FOOD FROM ANIMALS

[G. Ciftcioglu](#)

Istanbul Univ. Avcilar, Fac. Vet. Med., Food Hyg. Techn. Dept., Istanbul, TURKEY

07-o-01 GENOTOXIC MONITORING ON WILD RODENTS LIVING IN PROTECTED AREAS

[L.A. Ieradi](#), [O. Locasciulli](#), [J. Bravo](#), [F. Annesi](#), and [M. Cristaldi](#)

Univ. Di Roma "La Sapienza", Dept. of Animal and Human Biology, 00161 Roma, ITALY

07-o-02 CLIMATIC INFLUENCE ON STRUCTURE VARIATIONS OF SMALL MAMMAL COMMUNITIES IN PO DELTA RIVER (NORTHERN ITALY);

[S. Mazzotti](#), [E. Tiozzo](#), [R. Santolini](#), and [G. Szpunar](#)

Univ. Di Roma "La Sapienza", Dept. of Animal and Human Biology, 00161 Roma, ITALY

- 07-o-03 Eisenia fetida AVOIDANCE BEHAVIOUR AS A TOOL TO ASSESS THE EFFICIENCY OF Pb, Zn AND Cd POLLUTED SOIL REMEDIATION
[M. Udovic](#) and [D. Lestan](#)
University of Ljubljana, Centre for Soil and Environmental Science, 1000 Ljubljana, SLOVENIA

18.20 - 19.20 poster discussion Sessions 2, 5, and 7

Chairpersons [N. Jelali](#) and [M.R. Provenzano](#)

- 02-p-01 ASSESSMENT OF WEED SPECIES AND CHELATING AGENTS PERFORMANCE IN CHELATE-ASSISTED PHYTOREMEDIATION OF Pb- AND Zn-POLLUTED SOILS
[S. A. Aboulroos](#), [H. M. Abdelrahman](#), [M. M. Abdeltawab](#), and [M. M. Kamel](#)
Università degli Studi di Bari, Dipt. di Biologia e Chimica Agro-Forestale ed Ambientale, 70126 Bari, ITALY
- 02-p-02 DYNAMIC OF THE MINERAL NITROGEN IN CLAY LOAM IRRIGATED SOILS: STUDY CASE OF KALAAT LANDALOUS DISTRICT (TUNISIA)
[A. Hatira](#), [S. Saker](#), [H. Daghari](#), [M. Hammami](#), [T. Gallali](#), and [H. Hamrouni](#)
Faculty of Sciences of Tunis, Department of Geology, El Manar- Tunis, TUNISIA
- 02-p-03 USING BIOREMEDIATION TECHNIQS FOR REMOVING TOXIC ORGANIC COMPOUNDS
[A. Altikat](#), [Z. Bingul](#), [T. Turan](#), and [F. Ekmekyapar](#)
Atatürk University, Dept. of Environmental Engineering, 25240 Erzurum, TURKEY
- 02-p-04 CAN COMPOST APPLICATIONS AFFECT METAL AND PAH CONTENTS IN MEDITERRANEAN AGRICULTURAL SOILS?
[D. Baldantoni](#), [F. De Nicola](#), and [A. Alfani](#)
University of Salerno, Dept. of Chemistry, 84084 Fisciano (SA), ITALY
- 02-p-05 CHEMICAL STABILIZATION IN HEAVY METAL CONTAMINATED SOIL WITH WATER TREATMENT SLUDGE
[S. Barna](#), [L. Simon](#), and [A. Anton](#)
College of Nyíregyháza, Technical and Agricultural Faculty, 4400 Nyíregyháza, HUNGARY
- 02-p-06 EVALUATING SOIL MANAGEMENT USING MICROBIAL ECOPHYSIOLOGICAL PROFILES IN SOIL PARTICLE-SIZE FRACTIONS
[R. Cañizares](#), [B. Moreno](#), [R. Nogales](#), and [E. Benitez](#)
Estacion Experimental del Zaidin-CSIC, Dept of. Environmental Protection, 18008 Granada, SPAIN

- 02-p-07 MODIFICATION IN THE CONTENT OF MANGANESE AND LEAD IN THE PROFILE OF THE SOIL FERTILIZED WITH COMPOST FROM SEWAGE SLUDGE AND THE MUNICIPAL WASTE
[J. Bowszys and T. Bowszys](#)
University of Warmia and Mazury, Chair of Agricultural Chemistry and Environmental Protection, 10-744 Olsztyn, POLAND
- 02-p-08 TIME FRAME AND EFFECTIVENESS OF PHYTOREMEDIATION FOR HEAVY METAL DECONTAMINATION OF SOILS IN THE APULIA REGION, SOUTHERN ITALY
[G. Brunetti, K. Farrag, and N. Senesi](#)
Università degli Studi di Bari, Dipartimento di Biologia e Chimica Agroforestale ed Ambientale, 70126 Bari, ITALY
- 02-p-09 POTENTIAL OF BRASSICA NAPUS FOR THE PHYTOREMEDIATION OF HEAVY METALS CONTAMINATED SOILS IN THE APULIA REGION, SOUTHERN ITALY
[K. Farrag, G. Brunetti, and N. Senesi](#)
Università degli Studi di Bari, Dipartimento di Biologia e Chimica Agroforestale ed Ambientale, 70126 Bari, ITALY
- 02-p-10 SPREADING OF OLIVE MILL WASTES IN AGRICULTURAL LAND: FIELD EXPERIMENTAL TESTS
[M.C. Caputo, A.M. De Girolamo, and M. Vurro](#)
Italian National Research Council, Water Research Institute – I.R.S.A., 70123 Bari, ITALY
- 02-p-11 IONIC STRENGTH AND PH EFFECTS ON CADMIUM, NICKEL AND ZINC ADSORPTION IN AN OXISOIL
[J. C. Casagrande, S.C. Martins, and M.R. Soares](#)
Federal University of São Carlos, Natural Resources And Environmental Protection, 13600-970 Araras, BRAZIL
- 02-p-12 SOIL ALUMINUM SATURATION AND CALCIUM INFLUENCING THE RADICULAR SYSTEM DEPTH OF RESTINGA FOREST IN SAND COASTAL PLAIN SOIL
[J.C. Casagrande, C.A. Sato, R.M. Reis-Duarte, and M.R. Soares](#)
Federal University of São Carlos, Natural Resources And Environmental Protection, 13600-970 Araras, BRAZIL
- 02-p-13 NEW CITRUS PLANTATIONS AND SOIL EROSION IN EASTERN SPAIN
[A. Cerdà, M.B. Bodí, and A. Giménez-Morera](#)
University of Valencia, Dept. of Geography, 46010 Valencia, SPAIN

- 02-p-14 COMPETITIVE SORPTION AND DESORPTION OF Cu AND Pb BY DIFFERENT SOILS
[B. Cerqueira](#), [E.F. Covelo](#), [M.L. Andrade](#), and [F.A. Vega](#)
Universidad de Vigo, Departamento Biología Vegetal y Ciencia del Suelo, 362310 Vigo, SPAIN
- 02-p-15 THE USE OF ELECTROMAGNETIC SENSORS TO DETERMINE SOIL SALINITY IN AREAS IRRIGATED WITH IRRIGATION RETURN FLOWS IN SOUTHERN TURKEY
[M. Cetin](#), [H. Ibrikci](#), [E. Karnez](#), [O.F. Karaca](#), [H. Kaman](#), [S. Topcu](#), [C. Kirda](#), [J. Ryan](#), [H. Oguz](#), [E. Oztekin](#), and [M. Dingil](#)
Cukurova University, Agricultural Structures and Irrigation Dept., 01330 Adana, TURKEY
- 02-p-16 EFFECT OF SOIL ORGANIC AMENDMENT ON THE BEHAVIOUR OF THE HERBICIDES MCPA AND AMITROL IN SOIL
[A. Cabrera](#), [L.Cox](#), [P. Velarde](#), [M.J. Lopez de Alda](#), and [J. Cornejo](#)
IRNAS-C.S.I.C., Dept. of Agrochemistry And Soil Conservation, 41080 Sevilla, SPAIN
- 02-p-17 TOXICITY EVOLUTION OF A DIESEL-CONTAMINATED SOIL DURING A MICRO-SCALE BIOREMEDIATION PROCESS
[S. Manzo](#), [R. Carotenuto](#), [F. De Luca Picione](#), and [A. Rocco](#)
ENEA - Centro Ricerche Portici, 80055 Portici (Napoli), ITALY
- 02-p-18 APPLICATION OF ORGANIC AMENDMENTS TO IMPROVE LAND UTILIZATION SYSTEM OF FODDER CROPS
[D. Ferri](#), [F. Montemurro](#), [G. Debiase](#), [A. Fiore](#), [G. Convertini](#), and [M. Mastrangelo](#)
CRA-SCA, Unit for cropping systems in dry environments, 70125 Bari, ITALY
- 02-p-19 CORRELATION BETWEEN VEGETATION ACTIVITIES AND HEAVY METALS IN SOILS: PRELIMINARY RESULTS
[M. D'Emilio](#), [R. Coppola](#), [T. Simoniello](#), [V. Imbrenda](#), [M.T Carone](#), [M. Lanfredi](#), [M. Ragosta](#), and [M. Macchiato](#)
CNR, Istituto di Metodologie per l'Analisi Ambientale, Potenza, ITALY
- 02-p-20 A FLUORESCENCE STUDY OF ADSORPTION MECHANISM OF FLUBENDIAMIDE ONTO HUMIC ACIDS
[I. Cavoski](#), [V. D'Orazio](#), [P. Caboni](#), and [T. Miano](#)
University of Bari, Department of Biol. Chim. Agrof. Amb., 70126 Bari, ITALY

- 02-p-21 SOIL CHARACTERIZATION OF TECHNOSOLS WITH DIFFERENT AGE DEVELOPED ON A COPPER MINESPOIL
[V. Asensio](#), [M.L. Andrade](#), [F.A. Vega](#), and [E.F. Covelo](#)
Universidad de Vigo, Departamento Biología Vegetal y Ciencia del Suelo, 362310 Vigo, SPAIN
- 02-p-22 FLUORESCENCE ANALYSIS OF HUMIC ACIDS ISOLATED FROM THE RHIZOSPHERE AND BULK SOIL COMPARTMENTS
[V. D'Orazio](#), [A. Ghanem](#), and [N. Senesi](#)
University of Bari, Department of Biol. Chim. Agrof. Amb., 70126 Bari, ITALY
- 02-p-23 EXTRACTABLE CHROMIUM AND NITROGEN MINERALIZATION IN SOIL TREATED WITH TANNERY PLASTER
[C. Giacometti](#), [P. Gioacchini](#), [C. Ciavatta](#), and [C. Marzadori](#)
University of Bologna, Department of Agro-Environmental Sciences and Technologies, 40127 Bologna, ITALY
- 02-p-24 ALTERNATIVE SOIL MANAGEMENT TECHNIQUES IN SICILIAN VINEYARD FOR SOIL ORGANIC MATTER RECOVERING
[L. Gristina](#), [I. Poma](#), [S. Saladino](#), and [A. Novara](#)
Università degli Studi di Palermo, Dept of Agronomia Ambientale e Territoriale, 90128 Palermo, ITALY
- 02-p-25 ENVIRONMENTAL IMPACTS OF OUTDOOR PIG PRODUCTION: EFFECTS ON P SORPTION
[M.C. Horta](#)
Instituto Politécnico, Escola Superior Agrária, 6000-909 Castelo Branco, PORTUGAL
- 02-p-26 ROLE OF ORGANIC MATTER IN SOIL RESISTANCE TO DROUGHT
[S. Hueso](#), [T. Hernández](#), [N. Senesi](#), [K. Farrag](#), [G. Brunetti](#), and [C. García](#)
Centro de Edafología y Biología Aplicada del Segura (CEBAS-CSIC), Dept. of Soil and Water Conservation and Organic Waste Management, 30100 Espinardo (Murcia), SPAIN
- 02-p-27 COMPETITIVE REACTIONS OF BINDING OF HEAVY METALS IN SOIL SOLUTIONS
[S.P. Li](#), [K.A. Kydraliev](#), and [Sh. Jorobekova](#)
Institute of Chemistry & Chemical Technology, Lab. of Biophysical Chemistry, 720071 Bishkek, KYRGYZSTAN
- 02-p-28 IMPACT OF TILLAGE AND SOWING SYSTEMS ON PHYSICAL PROPERTIES OF A COMPACTED SOIL FROM CENTRAL SPAIN
[C. Lopez-Fando](#) and [M.T. Pardo](#)
Institution Centro de Ciencias Medioambientales (CSIC), Department Soils, 28006 Madrid, SPAIN

- 02-p-29 LONG-TERM DYNAMICS OF SOIL METAL CONCENTRATIONS AT THE URBAN AREA OF NAPLES (SOUTHERN ITALY)
[G. Maisto](#), [F. De Nicola](#), and [A. Alfani](#)
Universita' di Napoli "Federico II", Dipartimento di Biologia Strutturale e Funzionale, 80126 Napoli, ITALY
- 02-p-30 URBAN AND AGRICULTURAL SOIL ECOTOXICITY AND HEAVY METAL CONTAMINATION
[S. Manzo](#), [F. De Luca Picione](#), [A. Rocco](#), [R. Carotenuto](#), and [G. Maisto](#)
C.R. ENEA - Environmental Dept., 80055 - Portici (VA), ITALY
- 02-p-31 THE EFFECT OF SOIL-WATER INTERACTION PROCESSES ON THE MECHANICAL PROPERTIES OF THE SOILS
[F. De Santis](#), [M. L. Giannossi](#), [S. Margiotta](#), [L. Medici](#), [V. Summa](#), and [F. Tateo](#)
IMAA-CNR, Lab. of Environmental and Medical Geology, 85050 Tito Scalo (PZ), ITALY
- 02-p-32 EVIDENCE OF BINDING OF PRION TO SOIL AND RISK OF TSE TRANSMISSION
[S. Genovesi](#), [L. Leita](#), [P. Sequi](#), [I. Andrighetto](#), [A. Margon](#), [C. Sorgato](#), and [A. Bertoli](#)
CRA-Consiglio per la Ricerca e Sperimentazione in Agricoltura, Centro di Ricerca per le Relazioni tra Pianta e Suolo, 34170 Gorizia, ITALY
- 02-p-33 ADSORPTION OF POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) ONTO ENGINEERED NANOMATERIALS, SOILS, COMPOST AND HUMIC FRACTIONS
[L. Marino](#), [D. Mondelli](#), and [N. Senesi](#)
University of Bari, Biol. Chim. Agrofor. Ambientale, 70126 Bari, ITALY
- 02-p-34 KARST BAUXITE MINING CONTRIBUTION TO HEAVY METAL CONTENTS OF TOPSOIL AND STREAM SEDIMENTS IN DALMATIA, CROATIA
[S. Miko](#), [Z. Peh](#), [M. Šparica Miko](#), [O. Hasan](#), [S. Mesić](#), [N. Ilijanić](#), and [E. Kovačević](#)
Croatian geological survey, Zagreb 10000, CROATIA
- 02-p-36 ROLE OF SOME AGRONOMY PRACTICES ON THE NUTRITION REGIME OF HAPLIC CHERNOZEMS AFTER ROOT CROPS
[M. Nankova](#), [P. Yankov](#), and [D. Georgiev](#)
Dobroudja Agricultural Institute, 9520 General Toshevo, BULGARIA

- 02-p-37 COMPLEX SOIL COMPOSITION (HEAVY METALS AND SALTS) OF A SEALED MIXED URBAN / INDUSTRIAL SOLID WASTE LANDFILL
[A.J. Hernández](#), [M^aJ. Gutiérrez](#), and [J. Pastor](#)
University of Alcalá de Henares, Dept. of Ecology, 28871 Alcalá de Henares (Madrid), SPAIN
- 02-p-38 ECOSER PROJECT: TOWARD A BETTER UNDERSTANDING OF THE MECHANISMS OF CARBON STABILIZATION IN AGRICULTURAL SOILS AMENDED WITH MUNICIPAL ORGANIC WASTES
[C. Plaza](#), [R. Sanz](#), [P. J. Hernáiz](#), [J. C. García-Gil](#), [P. A. Soler-Rovira](#), [J. M. Fernández](#), [D. Hernández](#), [I. Haller](#), and [A. Polo](#)
Centro de Ciencias Medioambientales, Consejo Superior de Investigaciones Científicas, Dept. of Environmental Pollution, 28006 Madrid, SPAIN
- 02-p-39 THE EFFECT OF COMPOST, ZEOLITE AND CALCIUM OXIDE ON THE CONTENT OF ORGANIC CARBON AND MINERAL COMPONENTS IN SOILS CONTAMINATED WITH CHROMIUM (III) AND CHROMIUM (VI)
[M. Wyszowski](#) and [M. Radziemska](#)
University of Warmia and Mazury, Dept. of Environmental Chemistry, 10-727 Olsztyn, POLAND
- 02-p-40 SORPTION AND DESORPTION OF Co, Cu, Ni, Pb AND Zn BY TUNISIAN INCEPTISOLS: HYSTERESIS AND DEPTH MIGRATION
[H. Sahraoui](#), [E.F. Covelo](#), [M. Hachicha](#), [M.L. Andrade](#), [F.A. Vega](#), and [J. Tarhouni](#)
Faculté des Sciences de Bizerte, Zarzouna. 7021, TUNISIA
- 02-p-41 FLUORESCENCE CHARACTERIZATION OF HUMIC ACIDS ISOLATED FROM METAL-CONTAMINATED SOILS AFTER IN SITU REMEDIATION WITH BIOSOLID COMPOST AND LEONARDITE
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Centro de Ciencias Medioambientales, Consejo Superior de Investigaciones Científicas, Dept. of Environmental Pollution, 28006 Madrid, SPAIN
- 02-p-42 ASSESSMENT OF THE IMPACT OF SUPERABSORBENT CELLULOSIC HYDROGELS ON SOIL BIOLOGICAL PROPERTIES
[X. Dulja](#), [M. Spagnuolo](#), [N. Carella](#), [M.D.R. Pizzigallo](#), and [P. Ruggiero](#)
University of Bari, Dept. of Environmental and Agro-forestal Biology and Chemistry, 70126 Bari, ITALY
- 02-p-43 ZEOLITE SYNTHESIS FROM RECYCLED GLASS AND ALUMINUM FOR APPLICATIONS IN AGRICULTURE AND ENVIRONMENTAL PROTECTION
[R. Terzano](#), [C. D'Alessandro](#), [M. Spagnuolo](#), [L. Medici](#), and [P. Ruggiero](#)
University of Bari, Faculty of Agriculture, Dipartimento di Biologia e Chimica Agro-forestale e Ambientale, 70126 Bari, ITALY

- 02-p-44 USE OF PESTICIDES IN TURKEY AND ITS EFFECTS ON ENVIRONMENT
[T. Turan](#), [F. Ekmekyapar](#), [A. Altikat](#), and [Z. Bingul](#)
Atatürk University, Dept. of Environmental Engineering, 25240 Erzurum,
TURKEY
- 02-p-45 THE INFLUENCE OF AGING AND COMPOST AMENDMENT
ON BIOACCESSIBILITY, BIOAVAILABILITY AND TOXICITY OF
PHENANTHRENE IN CONTAMINATED SOILS
[G. Bari](#), [P. Vernile](#), [M. Spagnuolo](#), [E. de Lillo](#), [M.D.R. Pizzigallo](#), and [P. Ruggiero](#)
University of Bari, Dipartimento di Biologia e Chimica Agroforestale ed
Ambientale (DiBCA), 70126 Bari, ITALY
- 02-p-46 SPATIAL VARIABILITY OF SOIL MAGNETIC SUSCEPTIBILITY IN THE
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[I. Krzemińska](#), [P. Warchulska](#), [Z. Sokołowska](#), and [A. Alekseev](#)
Polish Academy of Sciences, Institute of Agrophysics, Department of Physical
Chemistry of Porous Materials, 20-290 Lublin, POLAND
- 02-p-47 INTERDEPENDENCE BETWEEN PHOSPHATES CONTENT IN SOILS AND
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[P. Warchulska](#) and [Z. Sokołowska](#)
Polish Academy of Sciences, Institute of Agrophysics, Department of Physical
Chemistry of Porous Materials, 20-290 Lublin, POLAND
- 02-p-48 ADSORPTION AND PERMEABILITY OF CLAYS UNDER PERMEANTS
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[M.S. Ozcoban](#), [S. Yalcin](#), [Y. Aşçı](#), and [N. Tufekci](#)
Istanbul University, Dept. of Chemistry, 80626 Istanbul, TURKEY
- 02-p-49 SOIL SALINIZATION AT IRRIGATED AREA AT MIDDLE PART OF VOLGA
RIVER VALLEY
[A. Zeiliger](#), [O. Ermolaeva](#), [A. Buber](#), and [A. Lotov](#)
Moscow State University of Environmental Engineering, 127550 Moscow,
RUSSIA
- 02-p-50 ELECTROCHEMICAL ANALYSIS METHODS IN THE DETERMINATION OF
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[A. Akay](#)
Selcuk University, Department of Soil Science, Konya, TURKEY

- 02-p-51 PERSISTENCE OF BISPHENOL A IN WATER AND SOIL AS AFFECTED BY BENZOIC AND CINNAMIC ACID DERIVATIVES PRESENT IN PLANT ROOT EXUDATES
[E. Loffredo, E. Gattullo, and N. Senesi](#)
Università degli Studi di Bari, Dipt. di Biologia e Chimica Agro-Forestale ed Ambientale, 70126 Bari, ITALY
- 02-p-52 ASSESSMENT AND MAPPING OF DESERTIFICATION SENSITIVITY USING REMOTE SENSING AND GIS - CASE STUDY: NORTHERN COSTAL ZONE OF EGYPT
[A. Shalaby and A. Gad](#)
National Authority for Remote Sensing and Space Sciences, Land Use Dept., El-Nozha El-Gedida, EGYPT
- 02-p-53 SORPTION KINETICS PROCESSES OF OCSs ON "TERRA ROSSA" SOIL
[S.R. Capursi, C.I.Giasi, and M.D.R. Pizzigallo](#)
Politecnico di Bari, Dipartimento di Ingegneria delle Acque e della Chimica, 70100 Bari, ITALY
- 02-p-54 GRAPHICAL ANALYSIS OF HUMIC AND FULVIC ACID MASS SPECTRA OBTAINED BY ELECTROSPRAY IONIZATION COUPLED WITH FOURIER TRANSFORM ION CYCLOTRON RESONANCE
[M. Tummolo, F. Lelario, L. Scrano, N. Senesi, and S.A. Bufo](#)
University of Basilicata, Dept. of Crop Systems, Forestry and Environmental Sciences, 85100 Potenza, ITALY
- 05-p-01 PRODUCTIVITY OF SOME NEW INTRODUCED CROP SPECIES WITH LOW WATER REQUIREMENTS IN MEDITERRANEAN REGION WITH SPECIAL REFERENCE TO EGYPT
[E. M. Abd El Lateef](#)
National Research Center, Agricultural division, Field Crop Research Department, 12611 Giza, EGYPT
- 05-p-02 EFFECT OF SPLIT APPLICATION OF POTASSIUM ON YIELD AND YIELD COMPONENT OF UPLAND COTTON
[N.U. Ahmed, Khalequzzaman, M. Shankar Mandol, M.F. Uddin, and M.G.G. Mortuza](#)
Cotton Development Board, 1740 Gazipur, BANGLADESH
- 05-p-03 EVALUATION OF THE CHEMICAL PHYSICAL DIFFERENCES AMONG SICILIAN HONEYS
[F. Aboud, C. De Pasquale, P. Conte, E. Palazzolo, and G. Alonzo](#)
Università degli Studi di Palermo, Dipartimento di Ingegneria e Tecnologie Agro Forestali, 90128 Palermo, ITALY

- 05-p-04 A THREE-YEAR FIELD ANAEROBIC DIGESTATES APPLICATION: EFFECTS ON FODDER CROPS PERFORMANCE AND SOIL PROPERTIES
[F. Montemurro](#), [C. Vitti](#), [M. Diacono](#), [S. Canali](#), and [F. Tittarelli](#)
CRA-SCA, 70125 Bari, ITALY
- 05-p-05 IMPACT OF OLIVE MILL WASTEWATERS ON VINEYARD: EFFECTS ON GRAPE PRODUCTION AND SOIL CHARACTERISTICS
[M.G. Di Serio](#), [B. Lanza](#), [E. Iannucci](#), and [F. Russi](#)
CRA-OLI, Centro di Ricerca per l'Olivicoltura e l'Industria Olearia, 65013 Città S. Angelo (PE), ITALY
- 05-p-06 SEDIMENT AND SLUDGE CLEAN-UP BY LIGAND ACCELERATED METALS SOLUBILIZATION AND UPTAKE BY SALINITY RESISTANT, FAST GROWING FOREST TREES
[P. Fine](#), [U. Mingelgrin](#), [A. Berezkin](#), and [P. Rathod](#)
Volcani center, ARO, Institute of Soil, Water and Environmental Sciences, 50250 Bet-Dagan, ISRAEL
- 05-p-07 EFFECT OF ORGANIC AND INORGANIC RESIDUES ON THE TOXICITY OF MINING WASTE
[V. González](#), [M. Simón](#), [I. García](#), [J.A. Sánchez](#), [F. del Moral](#), and [S. de Haro](#)
University of Almería, Dpto. Edafología y Química Agrícola, 04120 - Almería, SPAIN
- 05-p-08 THE EFFECT OF THE SALINITY OF YIELD AND CHEMICAL COMPOSITION OF THE ESSENTIAL OIL OF CYMBOPOGON SCHOENANTHUS
[A. Khadri](#), [J.M.F. Nogueira](#), [M. Neffati](#), [M.E.M. Araújo](#), and [S. Smiti](#)
University of El-Manar II, Département de Biologie, Unity of Research of Vegetal Ecology, 2092 Tunis, TUNISIA
- 05-p-09 EFFECTS OF TREATMENT WITH KAOLIN ON OLIVE FRUIT TO PREVENT BACTROCERA OLEAE ATTACK
[B. Lanza](#), [M.G. Di Serio](#), [E. Iannucci](#), [F. Russi](#), [C. Di Marco](#), and [E. Perri](#)
CRA-OLI, Centro di Ricerca per l'Olivicoltura e l'Industria Olearia, 65013 Città S. Angelo (PE), ITALY
- 05-p-10 EVOLUTION OF A SOIL AMENDED WITH URBAN WASTE COMPOST ON WHEAT ROTATION BEET
[M. Navarro](#), [J.I. López](#), [C. Rad](#), [Y. Arribas](#), [S. Peña](#), [J.M. Bustillo](#), and [S. González](#)
University of Burgos, Soil Science and Agricultural Chemistry Department, 09006 Burgos, SPAIN

- 05-p-11 IN VITRO SCREENING OF MEDITERRANEAN PLANT EXTRACTS AGAINST POSTHARVEST FUNGI
[E. Mamoci, I. Cavoski, V. Simeone, D. Mondelli, and L. Al-Bitar](#)
Parthenope University of Naples, Dept. of Sciences for the Environment, 80143 Napoli, ITALY
- 05-p-12 SOIL TOXICITY BY SULPHIDE-METAL OXIDATION
[E. Arco-Lázaro, M. Diez, F. Martín, and C. Dorronsoro](#)
University of Granada, Soil Science Department, 18071 Granada, SPAIN
- 05-p-13 RESPONSES OF CROPS TO OZONE POLLUTION IN THE MEDITERRANEAN REGION
[M. Mastrorilli, M. Fagnano, and G. Rana](#)
CRA-SCA, Research Unit for Cropping Systems in Dry Environments, 70125 Bari, ITALY
- 05-p-14 INFLUENCE OF IRRIGATION WITH URANIUM CONTAMINATED WATER ON SOILS AND CULTIVATED POTATOS AND BEANS
[M.O. Neves and M.M. Abreu](#)
Centro de Petrologia e Geoquímica, Eng^a Minas e Georrecursos/ Instituto Superior Técnico, 1049-001 Lisboa, PORTUGAL
- 05-p-15 OCCURRENCE OF PLATINUM IN THE LEAVES OF HOLM-OAK (QUERCUS ILEX L.) FROM DIFFERENT SITES (STREETS AND SQUARES) IN THE CITY OF CASERTA (ITALY)
[S. Papa, G. Bartoli, D. Di Martino, E. Cembrola, and A. Fioretto](#)
Seconda Università di Napoli, Dipartimento di Scienze della Vita, 81100 Caserta, ITALY
- 05-p-16 ACTION OF HEAVY METALS OF SOILS ON Avena sativa L. AND EDUCATION STRATEGIES
[M^a J. Gutierrez, J. Pastor, and A. J. Hernandez](#)
University of Alcalá de Henares, Dept. of Ecology, 28871 Alcalá de Henares (Madrid), SPAIN
- 05-p-17 A HYDROBIOLOGICAL MODEL AS A TOOL FOR THE DETECTION OF HAB EPISODES. APPLICATION TO THERMAIKOS GULF
[D. Patoucheas and Y. Savvidis](#)
Aristotle Univ. of Thessaloniki, Dept. of Fisheries and Aquaculture Technology, N. Moudania, GREECE
- 05-p-18 METAL CONTENT IN DIFFERENT PARTS OF THE SEAGRASS CYMODOCEA NODOSA IN A POLLUTED AREA (THERMAIKOS GULF, N.W. AEGEAN SEA)
[M. Potouroglou, P. Malea, S. Pergantis, and M. Seferlis](#)
University of Thessaloniki, Institute of Biology, 54124 Thessaloniki, GREECE

- 05-p-19 SULPHUR CONCENTRATIONS IN DIFFERENT ORGANIC VINEYARDS OVER A THREE-YEAR PERIOD IN APULIA, SOUTH-EASTERN ITALY
[M.R. Provenzano](#), [H. El Bilali](#), [V. Simeone](#), [D. Mondelli](#), and [N. Baser](#)
University of Bari, Dipartimento di Biologia e Chimica Agroforestale e Ambientale, 70126 Bari, ITALY
- 05-p-20 SOME PHYSIOLOGICAL AND BIOCHEMICAL TRAITS OF SALT TOLERANCE IN THE SALT MARSH HALOPHYTE: SESUVIUM PORTULACASTRUM
[M. Rabhi](#), [D. Giuntini](#), [D. Remorini](#), [A. Castagna](#), [B. Baldan](#), [A. Smaoui](#), [A. Ranieri](#), and [C. Abdelly](#)
Borj Cedria Biotechnology Centre, Laboratory of Plant Adaptation to Abiotic Stresses (LAPSA), 2050 Hammam-lif, TUNISIA
- 05-p-21 ANALYSIS OF DIETARY ENDOCRINE DISRUPTORS USING THE E-SCREEN METHOD IN RELATION TO PESTICIDES RESIDUES
[T. Schilirò](#), [D. Traversi](#), [A. Longo](#), and [G. Gilli](#)
University of Turin, Dep. of Public Health and Microbiology, 10126 Turin, ITALY
- 05-p-22 GIS ANALYSIS OF PHYTOPLANKTON AT THE SOUTHWESTERN COAST OF ISTANBUL
[A.N. Ozman](#), [D.Z. Seker](#), [N. Sivri](#), and [A. Erturk](#)
ITU, Istanbul Technical University, Geomatics Engineering Department, 34469 Maslak, Istanbul, TURKEY
- 05-p-23 FRACTIONATION AND PHYTOEXTRACTION OF HEAVY METALS FROM A BIOSOLID AMENDED ALFISOL BY BIOENERGY CROPS
[S. M. Shaheen](#) and [C. D. Tsadilas](#)
Kafrelsheikh University, Faculty of Agriculture, 33 516- Kafr El-Sheikh, EGYPT
- 05-p-24 DISSOLVED ORGANIC MATTER (DOM) FROM DIFFERENT COMPOSTS: COMPARATIVE STUDY OF PROPERTIES AND BIOLOGICAL EFFECTS ON PLANTS AND PHYTOPATOGENIC FUNGI
[A. Traversa](#), [E. Loffredo](#), [C. E. Gattullo](#), and [N. Senesi](#)
Università degli Studi di Bari, Dipt. di Biologia e Chimica Agro-Forestale ed Ambientale, 70126 Bari, ITALY
- 05-p-25 GRACILARIA VERRUCOSA (EX) IN THE LESINA LAGOON (ITALY): CASE STUDY FOR BRACKISH WATER PHYTODEPURATION
[M. Francavilla](#), [D. Di Pietro](#), and [P. Trotta](#)
National Research Council, Institute of Marine Science, 71010 Lesina (FG), ITALY

- 05-p-26 INFLUENCE OF COAL FLY ASH AND SEWAGE SLUDGE APPLICATION ON WHEAT YIELD AND SOIL PROPERTIES
[C.D. Tsadilas](#), [S.M. Shaheen](#), and [V. Samaras](#)
National Agricultural Research Foundation, Institute of Soil Mapping and Classification, 41335 Larissa, GREECE
- 05-p-27 BIOLOGICAL CONTROL OF SUNN-PEST (*Eurygaster* spp.(
Heteroptera: Scutelleridae) IN KONYA PROVINCE OF TURKEY: AS AN ENVIRONMENTAL APPROACH
[M. Uysal](#) and [Ö. Alaoğlu](#)
Selcuk University, Dept. of Plant Protection, 42031 Konya, TURKEY
- 05-p-28 CHANGES OF PHYSICO-CHEMICAL SURFACE PROPERTIES OF BARLEY AND CLOVER ROOTS UNDER AL-STRESS: NITROGEN ADSORPTION-DESORPTION STUDIES
[A. Szatanik-Kloc](#), [P. Warchulska](#) and [G. Bowanko](#)
Polish Academy of Sciences, Institute of Agrophysics, Department of Physical Chemistry of Porous Materials, 20-290 Lublin, POLAND
- 05-p-29 ANTIBACTERIAL SULFONAMIDES: ACCUMULATION AND EFFECTS IN BARLEY PLANTS
[S. Ferro](#), [B. Serbati](#), [A. R. Trentin](#), [S. Caffieri](#), and [R. Ghisi](#)
Università degli Studi di Padova, Dipartimento di Biotecnologie Agrarie, 35020 Legnaro (PD), ITALY
- 05-p-30 MEASURING WATER ACTIVITY OF A PEPPERMINT (*MENTHA PIPERITA*) AFTER THERMAL AND BIOCHEMICAL COMBINED TREATMENT FOR A PROLONGED STORAGE
[H. Machhour](#), [M. Mahrouz](#), [M. Bouchdoug](#), [A. Idlimam](#), and [M. Kouhila](#)
Cadi Ayyad University, Faculty of Science Semlalia, Agro-food unity Department of Chemistry, 40000 Marrakech, MOROCCO
- 05-p-31 IMPACT OF ATMOSPHERIC POLLUTION COMING FROM THE STEELWORKS OF EL- HADJAR (WILAYA OF ANNABA- ALGERIA) ON TWO TYPES OF VEGETATION (RAISED AND HERBACEOUS)
[S. Karoune](#), [M.S.A. Kechebar](#), and [D.E.D. Kadem](#)
CRSTRA: Scientific and technical research centre for Arid Areas, Campus Universitaire
Campus Universite Mohamed Khider, Biskra, ALGERIE
- 05-p-32 EVALUATION OF ARSENIC EFFECTS ON DIFFERENT MODEL SYSTEMS
[E. Sturchio](#), [G. Macino](#), [G. F. Bottazzo](#), [P. Boccia](#), [C. Meconi](#), [M. Zanellato](#), [T. Colombo](#), and [A. Masotti](#)
National Authority of Health and Safety at Work, Department Industrial Installations and Interaction with the Environment, 00184 Rome, ITALY

- 05-p-33 ASSESSING THE DIFFERENCES IN HEAVY METAL CONTENT IN SEMOLINA SAMPLES OBTAINED FROM CONVENTIONAL AND ORGANIC FARMING SYSTEMS
[C. Zaccone](#), [R. Di Caterina](#), [T. Rotunno](#), and [M. Quinto](#)
University of Foggia, Dept. of Agro-Environmental Sciences, Chemistry and Plant Protection, 71100 Foggia, ITALY
- 05-p-34 NEW TECHNIQUES IN PLANT BIOTECHNOLOGY
[L. Casorri](#), [E. Masciarelli](#), [B. Ficociello](#), and [E. Sturchio](#)
National Authority of Health and Safety at Work, Department Industrial Installations and Interaction with the Environment, 00184 Rome, ITALY
- 05-p-35 MOLECULARLY IMPRINTED POLYMERS FOR THE DETECTION OF BENOMYL RESIDUES
[L. Guzzella](#), [F. Pozzoni](#), [A. Dahchour](#), and [C. Baggiani](#)
IRSA-CNR, 20047 Brugherio (MI), ITALY
- 05-p-36 LIQUID CHROMATOGRAPHY ELECTROSPRAY TANDEM MASS SPECTROMETRY DETERMINATION OF HERBICIDES IN VEGETABLES
[A. Santilio](#), [P. Stefanelli](#), [S. Girolimetti](#), and [R. Dommarco](#)
National Health Institute, Dept. of Environment and Primary Prevention-Pesticide Section, 00185 Rome, ITALY
- 05-p-37 INVESTIGATION OF DROUGHT CONDITIONS IN MEDITERRANEAN REGION OF TURKEY USING REMOTELY SENSED DATA
[E. Sertel](#)
Istanbul Technical University, Geomatics Engineering Department, 34469 Maslak Istanbul, TURKEY
- 05-p-38 INCIDENCE OF SEWAGE SLUDGE ADDITION ON THE PHYTOREMEDIATION OF HYDROCARBON CONTAMINATED SOILS
[T. Hernández](#), [I. Rodríguez](#), and [C. García](#)
CEBAS-CSIC, Dept. of Soil and Water conservation and Organic Waste Management, 30100 Espinardo (Murcia), SPAIN
- 07-p-01 BUBALUS BUBALIS – A MODEL FOR RURAL SUSTAINABLE DEVELOPMENT IN MACEDONIA
[N. Aceska](#) and [H. Mankoli](#)
Executive Director NGO Knowledge Harvest, 7500 Prilep, MACEDONIA
- 07-p-02 IMMUNOTOXIC EFFECTS OF THE ANTIFOULING COMPOUND SEA-NINE 211TM ON HAEMOCYTES OF AN EDIBLE BIVALVE MOLLUSC
[F. Cima](#) and [V. Matozzo](#)
University of Padova, Dept. of Biology, 35131 Padova, ITALY

- 07-p-03 TEMPORAL VARIATIONS IN THE MICROTERIOCOENOSES FROM TOLFA HILLS (LATIUM, ITALY)
[G. Szpunar](#), [G. Milana](#), [G. Aloise](#), and [M. Cristaldi](#)
Univ. Di Roma "La Sapienza", Dept. of Animal and Human Biology, 00161 Roma, ITALY
- 07-p-04 THE EFFECTS OF WASTE OF CAGE AQUACULTURE ON GROWTH RATE, SURVIVAL AND MEAT COMPOSITION OF MEDITERRANEAN MUSSEL (*Mytilus galloprovincialis*, Lamarck 1819)
[B. Eymirli](#), [B. Sağlamtimur](#), and [N. Doğan-Sağlamtimur](#)
Nigde University, Faculty of Engineering and Architecture, Dept. of Environmental Engineering, 51245 Nigde, TURKEY
- 07-p-05 WINTERING ECOLOGY OF SOME PASSERINES AT AKDENIZ UNIVERSITY CAMPUS: A PRELIMINARY STUDY
[H. Karaardıç](#), [A. Erdoğan](#), [I. Kiziroğlu](#), and [L. Turan](#)
Akdeniz University, Faculty of Arts and Sciences, Dept. of Biology, 07058 Antalya, TURKEY
- 07-p-06 VITELLOGENIN INDUCTION IN THE CLAM, *TAPES PHILIPPINARUM*, AND THE CRAB, *CARCINUS AESTUARII*, FROM THE LAGOON OF VENICE: A COMPARISON STUDY
[M. Munari](#), [V. Matozzo](#), and [M.G. Marin](#)
University of Padova, Dept. of Biology, 35131 Padova, ITALY
- 07-p-07 PRODUCTION OF BIOLOGICALLY SAFE FOOD ADDITIVES AND INTRODUCTION IN POULTRY FARM
[K. Nadiradze](#) and [N. Phirosmanashvili](#)
Biotechnology Center of Georgia, 0152 Tbilisi, GEORGIA
- 07-p-08 THE REPRODUCTION ECOLOGY AND ESTIMATING THE SEX RATIO OF LOGGERHEAD TURTLE HATCHLINGS AT BELEK BEACHES IN ANTALYA, TURKEY IN 2008
[M. Öz](#), [A. Erdoğan](#), [M. Yavuz](#), [M.R. Tunç](#), [E. Öz](#), and [H. Sert](#)
Akdeniz University, Faculty of art and science, Dept. of Biology, 07058 Antalya, TURKEY
- 07-p-09 MONITORING TRICYCLAZOLE EFFECTS ON AQUATIC FAUNA: DISTURBANCES ON FISH PHYSIOLOGY
[E. Sancho](#), [C. Fernández-Vega](#), [M.J. Villarroel](#), [E. Andreu-Moliner](#), and [M.D. Ferrando](#)
University of Valencia, Dept. of Functional Biology and Physical Antropology, 46100-Burjassot (Valencia), SPAIN

- 07-p-10 COMPARATIVE TOXICITY OF THE FUNGICIDE TRICYCLAZOLE BETWEEN ESTUARINE AND FRESHWATER ORGANISMS
[O. Andreu-Sánchez, E. Sancho, M.D. Ferrando, and E. Andreu-Moliner](#)
University of Valencia, Dept. of Functional Biology and Physical Antropology, 46100-Burjassot (Valencia), SPAIN
- 07-p-11 LOW PROCHLORAZ LEVELS COMPROMISES THE STRESS RESPONSE IN ZEBRAFISH?
[E. Sancho, C. Fernández-Vega, M.J. Villarroel, E. Andreu-Moliner, and M.D. Ferrando](#)
University of Valencia, Dept. of Functional Biology and Physical Antropology, 46100-Burjassot (Valencia), SPAIN
- 07-p-12 EUROPEAN EEL PLASMA BIOCHEMISTRY ALERTS ABOUT PROPANIL STRESS
[M.J. Villarroel, O. Andreu, F. Tecles, S. Martínez-Subiela, C. Cerón, E. Andreu-Moliner, M.D. Ferrando, and E. Sancho](#)
University of Valencia, Dept. of Functional Biology and Physical Antropology, 46100-Burjassot (Valencia), SPAIN
- 07-p-13 HYDROLYSIS OF AQUEOUS SOLUTIONS SPIKED WITH TEBUCONAZOLE BY ABIOTIC CONDITIONS
[O. Andreu-Sánchez, E. Sancho, M.D. Ferrando, and E. Andreu-Moliner](#)
University of Valencia, Dept. of Functional Biology and Physical Antropology, 46100-Burjassot (Valencia), SPAIN
- 07-p-14 LEVELS OF HEAVY METALS, PAHs AND PCBs IN MYTILUS GALLOPROVINCIALIS FROM CLASSIFIED RELAYING AND PRODUCTION AREAS
[F.P. Serpe, P. Gallo, M. Salini, P. Maglio and M. Esposito](#)
Istituto Zooprofilattico Sperimentale del Mezzogiorno, Dipartimento di Chimica, 80055 Portici (Napoli), ITALY
- 07-p-15 DOES THE COMPOST USE AFFECT MICROARTHROPOD SOIL COMMUNITIES?
[C. Menta, A. Leoni, K. Tarasconi, and P. Affanni](#)
University of Parma, Department of Evolutionary and Functional Biology, 43100 Parma, ITALY
- 07-p-16 LEVANT VOLES (*Microtus guentheri* (Danford and Alston 1880)) PREFER SOUTHERLY-FACING SLOPES IN AGRICULTURAL SITES AT ANTALYA, TURKEY
[M. Yavuz, M. Öz, and I. Albayrak](#)
Akdeniz University, Faculty of Arts and Sciences, Dept. of Biology, 07058 Antalya, TURKEY

- 07-p-17 THE "REASONED SET ASIDE" TO PRESERVE POLLINATOR INSECTS AND TO SAFEGUARD ANIMALS AND VEGETABLES BIODIVERSITY
[T. Gardi, F. Berta, F. Fabbri, and C. Marchetti](#)
University of Perugia, Dept. of Agricultural and Environmental Sciences, 06121 Perugia, ITALY
- 07-p-18 ADEN DRAINAGE WATER PANS CONSIDER AS AN IMPORTANT ARTIFICIAL WETLANDS FOR EXISTING THE RESIDENT AND MIGRATORY BIRDS IN THE REPUBLIC OF YEMEN
[F.A. Albalem and M.A.A. Asalam](#)
Aden University, Biology Department, Aden, YEMEN
- 07-p-19 ANTIMICROBIAL RESISTANCE AND SPECIES COMPOSITION OF ENTEROCOCCI ISOLATED MARINE ENVIRONMENT IN NORTH MOROCCO
[M. Bennani, H. Amarouch, M. Allali, M. Lalaloui, M. Hassar, and N. Cohen](#)
Institut Pasteur du Maroc, Dept. of Food Safety and Environment, Casablanca, MOROCCO
- 07-p-20 THE DECAY OF NATURAL BUILDING STONES ON MONUMENTS THROUGH FUNGI
[H. \(Bakir\) Sert, H. Sümbül, and K. Sterflinger](#)
Akdeniz University, Dept. of Biology, 07058 Antalya, TURKEY
- 07-p-21 BIRDS AS BIODETERIORATION AGENTS ON HISTORICAL MONUMENTS
[H. Sert and A.Erdoğan](#)
Akdeniz University, Manavgat Vocational School, 07600 Manavgat, TURKEY
- 07-p-22 EFFECT OF CADMIUM TO BODY WEIGHT OF CHICKEN
[A. Khaled Saeed and Huda](#)
University of Aden, Dept. of Biology, Aden, YEMEN
- 19.20 poster removal Sessions 2, 5, and 7
poster placement Sessions 4, 8, 9, 10, and 11
- 20.30 social dinner and folklore show

Saturday, Oct. 10th

08.30 Registration continued;
poster placement Sessions 4, 8, 9, 10, and 11

08.30 - 10.15 Session 8
Intercompartmental element fluxes and climate changes and
effects on the ecosystem and human health

Chairpersons W. Bergheim and D.Z. Seker

keynote lecture

SPATIAL AND TEMPORAL DIMENSIONS OF PHYSICO-CHEMICAL AND
BIOLOGICAL PROCESSES IN SOILS

[W.E.H. Blum](#)

University of Natural Resources and Applied Life Sciences (BOKU), Dept. of
Forest and Soil Sciences, Inst. of Soil Research, 1190 Vienna, AUSTRIA

08-o-01 CLIMATE INDUCED CHANGES ON THE HYDROLOGY OF
MEDITERRANEAN BASINS – A RESEARCH CONCEPT TO REDUCE
UNCERTAINTY AND QUANTIFY RISK

[R. Ludwig and T. Ammerl](#)

Bavarian Research Alliance, European Research Funding (Environment),
80336 Munich, GERMANY

08-o-02 ON THE DEFINITION OF LOCAL CLIMATE CHANGE SCENARIOS
THROUGH STATISTICAL DOWNSCALING

[E. Bruno, I. Portoghese, and M. Vurro](#)

Italian National Research Council, Water Research Institute – I.R.S.A., 70123
Bari, ITALY

08-o-03 GLOBAL CLIMATE CHANGE IMPACTS ON TURKEY: METEOROLOGICAL
ANALYSIS OF KONYA CLOSED BASIN

[S. Dogan, H. Ture, and A. Berktay](#)

Selcuk University, Dept. of Environmental Engineering, 42031 Konya,
TURKEY

08-o-04 CLIMATE INDUCED VARIATIONS OF PHYSICAL AND CHEMICAL
STRUCTURE OF THE ADRIATIC SEA

[B. Grbec, M. Morović, F. Matić, S. Matijević, G. Kušpilić, R. Precali, and A. Bajić](#)

Institute of Oceanography and Fisheries, Dept. of Physical Oceanography,
21000 Split, CROATIA

10.15 - 10.35 coffee break

10.35 - 12.20 Session 9
Biodiversity and sustainability

Chairpersons S. Dumontet and C. Trasar-Cepeda

keynote lecture

MICROBIAL DIVERSITY AND SOIL MAKING

S. Dumontet

Università degli Studi di Napoli "Parthenope", Dipartimento di Scienze per l'Ambiente, 80148 Napoli, ITALY

09-o-01 EFFECTS OF CO-PRESENCE OF HERBICIDES AND WOOD AMENDMENTS ON SOIL BACTERIAL COMMUNITIES
P. Grenni, A. Barra Caracciolo, F. Falconi, J.M. Marin-Benito, M.S. Rodríguez-Cruz, and M.J. Sánchez-Martín
National Research Council, Water Research Institute, 00016 Monterotondo Scalo (RM), ITALY

09-o-02 EFFECT OF PIG SLURRY POLLUTION ON THE BIODIVERSITY OF PLANT ASSOCIATION IN HUNGARIAN ARID SOLONETZ STEPPE
Cs. Tóth, I. Forgó, and S. Barna
College of Nyíregyháza, Dept. of Agricultural Sciences, 4400 Nyíregyháza, HUNGARY

09-o-03 COMPARISON OF THE EFFECTS OF 2,4,5-TRICHLOROPHENOL ON MICROBIAL ACTIVITY AND BIOMASS IN NEUTRAL AND ACIDIC SOILS
D. Bello, F. Gil-Sotres, M^a Carmen Leirós, and C. Trasar-Cepeda
CSIC-Instituto de Investigaciones Agrobiológicas, Dept. Bioquímica del Suelo, 15705 Santiago de Compostela, SPAIN

09-o-04 NOVEL APPROACHES TO MOLECULAR DIAGNOSTICS OF THE BIOINDICATOR SPECIES WITH SPECIAL EMPHASIS ON *Prorocentrum minimum*
F. Koyuncu, S. Tas, E. Muftuoglu, Z. Ulupinar, and I. Uzonur
Fatih University, Dept. of Biology, 34500 Istanbul, TURKEY

12.20 - 14.00:lunch break

14.00 - 15.45 Session 10

Sustainable mobility and renewable energy use to combat pollution

Chairpersons M. Kirchner and M. Perkovic

keynote lecture

RENEWABLE ENERGY SOURCES AND SUSTAINABILITY

[A.J. Karabelas](#)

Centre for Research and Technology Hellas (CERTH), Chemical Process Engineering Research Institute-CPERI, 57001 Themi-Thessaloniki, GREECE

10-o-01 RENEWABLE ENERGY: BIOFUELS and ENVIRONMENT

[F. Akinerdem and Ö. Öztürk](#)

Selcuk University, Dept. of Field Crops, 42079 Konya, TURKEY

10-o-02 MARINE POLLUTER IDENTIFICATION: BACKTRACKING WITH THE AID OF SATELLITE IMAGING

[M. Perkovic, H. Greidanus, O. Müellenhoff, G. Ferraro, S. Cosoli, and R. Harsch](#)

Joint Research Centre, European Commission, Maritime Affairs, 21020 Ispra (VA), ITALY

10-o-03 AN OVERVIEW OF SUSTAINABLE BUILDING DECISION-MAKING AND EVALUATION TOOLS WITHIN THE INTERNATIONAL AND EUROPEAN FRAMEWORK

[M.C. Ruiz, I. Fernández, and E. Romero](#)

University of Cantabria, Dept. of Transport and Technology of Projects and Processes, 39005 Santander, Cantabria, SPAIN

10-o-04 ZERO CO2 AROUND THE MEDITERRANEAN SEA: THE BOAT AND ITS ENVIRONMENT

[P. Kermen, D. Bouix, M. Tilquin, T. Gonthiez, and M. Lepoutre](#)

Floralis UJF-Filiale, Dept. of Chemistry and Environment, 38610 Gières, FRANCE

15.45 - 16.05 coffee break

16.05 - 17.50 Session 11

Natural and artificial radioactive pollution

Chairpersons M. Albarhoum and M. Zucchetti

keynote lecture

ENVIRONMENTAL RADIOACTIVITY MEASUREMENTS IN THE
MEDITERRANEAN AREA

[S. Rizzo](#), [E. Tomarchio](#), and [G. Vella](#)

University of Palermo, Nuclear Engineering Department, 90128 Palermo,
ITALY

11-o-01 PROJECT TO STUDY BACKGROUND RADIATION FOR GAZA STRIP-
PALESTINE

[S.A. Abu Musleh](#)

National Research Centre(NRC), Dept. of Applied Science, Khanyouins,
Gaza, PALESTINIAN AUTHORITY

11-o-02 THE SYRIAN MNSR AS A SOURCE OF RADIOACTIVE POLLUTION

[M. Albarhoum](#)

Atomic Energy Commission of Syria, Dept. of Nuclear Engineering,
Damascus, SYRIA

11-o-03 RADIOLOGICAL ASSESSMENTS FOR THE SITING OF THE IGNITOR
FUSION EXPERIMENT IN ITALY

[M. Caldarella](#), [F. Chiaravalli](#), [F. Mancini](#), [G. Faelli](#), [M. Zucchetti](#), [L. Bonavigo](#),
[F. Franza](#), and [A. Ciampichetti](#)

Società Gestione Impianti Nucleari, 00100 Roma, ITALY

11-o-04 MEASUREMENT OF PLUTONIUM POLLUTION IN MARINE
ENVIRONMENT

[R.Y. Sibello Hernández](#), [M. Zucchetti](#), [F. Aumento](#), [M.L. Cozzella](#), and [C.M.
Alonso Hernández](#)

Politecnico di Torino, DENER - Dipartimento di Energetica, 10129 Torino,
ITALY

17.50 - 18.20 poster discussion Sessions 4, 8, 9, 10, and 11

Chairpersons F. Akinerdem and M. Caldarella

- 04-p-01 VOC EMISSION ESTIMATIONS FROM PAINTING PROCESSES IN TURKISH SHIPYARDS
U.B. Celebi, F.T. Akanlar and N. Vardar
Yildiz Technical University, Naval Architecture and Marine Engineering Dept, 34349 Istanbul, TURKEY
- 04-p-02 DRY ICE BLASTING APPLICATION IN TURKISH SHIPYARDS
F.T. Akanlar, U.B. Celebi and N. Vardar
Yildiz Technical University, Naval Architecture and Marine Engineering Dept, 34349 Istanbul, TURKEY
- 04-p-03 AN INVESTIGATION ABOUT PM AND NOISE EMISSIONS OF THE ROAD SWEEPERS OPERATED IN ISTANBUL-TURKEY: A CASE STUDY
E. Avşar, I. Toröz, A. Hanedar, and K. Alp
Istanbul Technical University, Environ. Engineering Dept., 34469 Maslak, Istanbul, TURKEY
- 04-p-04 INFLUENCE OF THE SAHARAN DUST TRANSPORT ON PM LEVELS AND ITS CHEMICAL COMPOSITION IN A SAMPLING SITE OF SOUTHERN ITALY
R. Caggiano, S. Fiore, M. Macchiato, D. Perniola, S. Sabia, G.A. Scardaccione, and S. Trippetta
CNR, Istituto di Metodologie Avanzate di Analisi Ambientale, 85050 Tito Scalo (PZ), ITALY
- 04-p-05 SEASONAL VARIATION AND SPATIAL DISTRIBUTION OF BTEX AND INORGANIC POLLUTANTS AT BURSA ATMOSPHERE
M.Y. Civan and G. Tuncel
Middle East Technical University, Dept. of Environmental Engineering, 06531 Ankara, TURKEY
- 04-p-06 DANGEROUS ATMOSPHERIC SULPHUR DIOXIDE CONCENTRATIONS AT CRATERIC AREAS OF ITALIAN ACTIVE VOLCANOES
A. Aiuppa, S. Bellomo, P. Bonfanti, L. Brusca, W. D'Alessandro, M. Longo, and R. Maugeri
Istituto Nazionale di Geofisica e Vulcanologia, Sezione di Palermo, 90146 Palermo, ITALY

- 04-p-07 ATMOSPHERIC HYDROGEN SULPHIDE CONCENTRATIONS IN FUMAROLIC AREAS OF THE SOUTH AEGEAN VOLCANIC ARC (GREECE)
[W. D'Alessandro](#), [S. Bellomo](#), [L. Brusca](#), and [K. Kyriakopoulos](#)
Istituto Nazionale di Geofisica e Vulcanologia, Sezione di Palermo, 90146 Palermo, ITALY
- 04-p-08 EVALUATION OF PAHs TOXICITY IN APULIAN PARTICULATE MATTER BY THE MODEL SYSTEM "CAENORHABDITIS ELEGANS"
[M. Caselli](#), [B. E. Daresta](#), [G. de Gennaro](#), [C. De Giorgi](#), [F. De Luca](#), and [V. Liuzzi](#)
University of Bari, Dept. of Chemistry, 70126 Bari, ITALY
- 04-p-09 CHARACTERIZATION OF ULTRAFINE PARTICLES IN URBAN AIR OF ROME
[P. Avino](#), [S. Casciardi](#), [C. Fanizza](#), and [M. Manigrasso](#)
National Institute for Occupational Safety and Prevention (ISPESL), DIPIA, 00148 Rome, ITALY
- 04-p-10 INDOOR/OUTDOOR PARTICULATE POLLUTION: WOOD COMBUSTION
[M. Filice](#) and [P. De Luca](#)
University of Calabria, Dept. of Pianificazione Territoriale, 87036 Rende, ITALY
- 04-p-11 PARTICULATE INDOOR POLLUTION IN HOUSEHOLD ENVIRONMENT. CASE OF STUDY: A LASER PRINTER
[M. Filice](#) and [P. De Luca](#)
University of Calabria, Dept. of Pianificazione Territoriale, 87036 Rende, ITALY
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University of Calabria, Dept. of Pianificazione Territoriale, 87036 Rende, ITALY
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[F. de La Cruz](#), [L. Turtos](#), [N.R. Furet](#), and [M. Zucchetti](#)
Instituto Superior de Tecnologías y Ciencias Aplicadas (InSTEC), La Habana, CUBA

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Arpa Puglia, Settore Protezione Ambientale, 70126 Bari, ITALY
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University of Patras, Dept. of Geology and Environment, 26500 Patras, GREECE
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[A. Hanedar](#) and [K. Alp](#)
Istanbul Technical University, Environ. Engineering Dept., 34469 Maslak, Istanbul, TURKEY
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Municipality of Thessaloniki, Environmental Department, 54630 Thessaloniki, GREECE
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Technological and Education Institute of Piraeus, Lab. of Environmental Technology, 12244 Athens, GREECE

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NCSR Demokritos, Environmental Research Laboratory, 15310 Athens, GREECE
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Istanbul University, Faculty of Engineering, Dept. of Envir. Engineering, Istanbul, TURKEY
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Technological and Education Inst. of Piraeus, Dept. of Gen. Mathematics, 12244 Athens, GREECE
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Municipality of Thessaloniki, Environmental Department, 54630 Thessaloniki, GREECE
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NCSR Demokritos, Environmental Research Laboratory, 15310 Athens, GREECE

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[V. Simon](#)
Ecole Nationale Supérieure des Ingénieurs en Arts Chimiques et Technologiques, Lab. of Agro-Industrial Chemistry, 31300 Toulouse, FRANCE
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University of Isfahan, Department of Chemistry and Environmental Science, 81744 Isfahan, IRAN
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University of Isfahan, Department of Chemistry and Environmental Science, 81744 Isfahan, IRAN
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Univ. of West Macedonia, Dept. of Engineering and Management of Energy Resources, 50100 Kozani, GREECE
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CNR, Istituto di Metodologie Avanzate di Analisi Ambientale, 85050 Tito Scalo (PZ), ITALY
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Selcuk University, Dept. Of Environmental Engineering, 42031 Konya, TURKEY
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University of Castilla La Mancha, Dept. of Physical Chemistry, 13071 Ciudad Real, SPAIN

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[K. Nikolaou](#) and [S. Basbas](#)
Org. for the Master Plan, and Environmental Protection of Thessaloniki, 54643 Thessaloniki, GREECE
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Italian National Research Council, Water Research Institute – I.R.S.A., 70123 Bari, ITALY
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Atatürk University, Faculty of Agriculture, 25000 Erzurum, TURKEY
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Centro de Gestión de la Información y Desarrollo de la Energía, CUBAENERGIA, División de Energía, Grupo de Impacto Ambiental, 11300, Ciudad Habana, CUBA
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University of Molise, STAT Dpt., 86090, Pesche (IS), ITALY
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University of Parma, Dept. of Evolutionary and Functional Biology, 43100 Parma, ITALY

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University of Tuscia, DISAFRI, 01100 Viterbo, ITALY
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Università degli Studi di Napoli Federico II, Dept. of Biologia Strutturale e Funzionale, 80126 Naples, ITALY
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[A.O. Dogru](#)
Istanbul Technical University, Civil Eng. Faculty, 34469 Istanbul, TURKEY
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European Commission - Joint Research Centre, Institute for Environment & Sustainability (IES), 21020 Ispra (VA), ITALY
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[S. Jorobekova](#)
National Academy of Sciences of Kyrgyzstan, Lab. of Biophysical Chemistry, 720071 Bishkek, KYRGYZSTAN
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University of Tehran, Faculty of soil and water engineering, 0098 Karaj, IRAN

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CSIC-Instituto de Investigaciones Agrobiológicas, Dept. Bioquímica del Suelo, 15705 Santiago de Compostela, SPAIN
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A Natural Resource: Ecosystem Hydrology, Community Health, Education and Training, Anacortes, WA. 98221, USA
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Bavarian Research Alliance, European Research Funding (Environment), 80336 Munich, GERMANY

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[H. Demirel and M. Çetin](#)
Istanbul Technical University, Department of Geodesy and Photogrammetry
Division of Photogrammetry, 34469 Maslak, Istanbul, TURKEY
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University of Malta, Dept. of Biology, Msida, MALTA

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Università degli Studi di Palermo, Dipartimento di Ingegneria e Tecnologie Agro Forestali, 90128 Palermo, ITALY
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[N. Ogleni](#), [U.E. Kocamaz](#), and [O. Ogleni](#)
Sakarya University, Dept. of Environmental Engineering, 54040 Sakarya, TURKEY
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[M. Blonda](#), [V. Perrino](#), [P. Lavarra](#), [V. La Ghezza](#), [R. Sani](#), and [M. Stelluti](#)
Arpa Puglia, Settore Protezione Ambientale, 70126 Bari, ITALY
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University of Basilicata, Dept. of Biology, Biotechnology Agricultural-Forestry and Dept. of Crop system, Forestry and Environmental Science, 85100 Potenza, ITALY
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University of Pisa, Dept. Chimica e Biotecnologie Agrarie, 56124 Pisa, ITALY
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[E. Roccotiello](#), [M. Zotti](#), [P. Marescotti](#), and [M.G. Mariotti](#)
University of Genova, DIP.TE.RIS. – Polo Botanico Hanbury, 16136 Genoa, ITALY

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Second University of Naples, Department of Environmental Sciences, 81100 Caserta, ITALY
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[S. Terracciano](#), [V. Spagnuolo](#), [C. Zingaretti](#), and [S. Giordano](#)
University of Naples, Federico II, Dipartimento di Biologia Strutturale e Funzionale, 80126 Napoli, ITALY
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[R. Bellas](#), [M. C. Leirós](#), [F. Gil-Sotres](#), and [C. Trasar-Cepeda](#)
CSIC-Instituto de Investigaciones Agrobiológicas, Dept. Bioquímica del Suelo, 15705 Santiago de Compostela, SPAIN
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[W. Peña](#), [F. Gil-Sotres](#), [C. Trasar-Cepeda](#), and [M.C. Leirós](#)
CSIC-Instituto de Investigaciones Agrobiológicas, Dept. Bioquímica del Suelo, 15705 Santiago de Compostela, SPAIN
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Arpa Puglia, Direzione Scientifica, 70126 Bari, ITALY
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[V. Tomaselli](#), [M. Urbano](#), [C. Tarantino](#), [F. Lovergine](#), and [P. Blonda](#)
CNR-ISSIA, 70126 BARI, ITALY
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[N. Amer](#), [Z. Al Chami](#), [L. Al Bitar](#), [D. Mondelli](#), and [S. Dumontet](#)
Mediterranean Agronomic Institute of Bari - CIHEAM, Soil and Water Testing Laboratory, 70010 Valenzano (Bari), ITALY

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[M.D.R. Pizzigallo](#), [V. Ancona](#), and [P. Di Leo](#)
Italian National Research Council, Water Research Institute – I.R.S.A., 70123 Bari, ITALY
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[M.E. Argun](#), [Ş. Dursun](#), [M. Karataş](#), and [A.A. Kulaksız](#)
Selcuk University, Environmental Eng. Dept., 42030 Konya, TURKEY
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[F. Bektaş Balçık](#)
Istanbul Technical University, Geodesy and Photogrammetry Department, Remote Sensing Division, 34469 Maslak, Istanbul, TURKEY
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[V. F. Uricchio](#), [D.E. Bruno](#), [V. Ancona](#), and [V. N. Palmisano](#)
Italian National Research Council, Water Research Institute – I.R.S.A., 70123 Bari, ITALY
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[I. Čengić](#)
University of Sarajevo, Dept. for Forest Ecology and Urban Greenery, 71000 Sarajevo, BOSNIA AND HERZEGOVINA
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[Ç. Cömert](#) and [M.Ersal](#)
Karadeniz Technical University, Geodesy and Photogrammetry Department, 61080 Trabzon, TURKEY
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[F. Ekmekyapar](#), [A. Altikat](#), [Z. Bingul](#), and [T. Turan](#)
Atatürk University, Dept. of Environmental Engineering, 25240 Erzurum, TURKEY
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[G. T. Icemer](#), [L. Atasoy](#), [U.B. Yildirim](#), [E. Can](#), and [C. Kosu](#)
Akdeniz University, Faculty of Engineering, Dept. of Environ. Engineering, 07200 Antalya, TURKEY

- 10-p-12 LONG-TERM EVOLUTION OF THE SULPHUR AND NITROGEN OXIDES EMISSIONS FROM THE GREEK ELECTRICITY GENERATION SECTOR
[J.K. Kaldellis](#), [G. Spyropoulos](#), [E. Kondili](#), and [A. Paliatsos](#)
TEI of Piraeus, Mechanical Eng. Dept., Lab of Soft Energy Applications & Environmental Protection, 12201 Athens, GREECE
- 10-p-13 COMPARING OPTIMUM WIND AND PHOTOVOLTAIC STAND-ALONE SYSTEMS ON THE BASIS OF AN ENERGY PAY-BACK ANALYSIS
[J.K. Kaldellis](#), [K. Kavadias](#), [D. Zafirakis](#), and [E. Kondili](#)
TEI of Piraeus, Mechanical Eng. Dept., Lab of Soft Energy Applications & Environmental Protection, 12201 Athens, GREECE
- 10-p-14 SMART HUMICS-BASED POLYMERS FOR SELECTIVE BINDING OF HEAVY METALS
[E. Kasymova](#), [R.P. Koroleva](#), [E. Khudaibergenova](#), [K. Kydraliev](#), [N. Hertkorn](#), and [Sh. Jorobekova](#)
Institute of Chemistry & Chemical Technology, Lab. of Biophysical Chemistry, 720071 Bishkek, KYRGYZSTAN
- 10-p-15 THE STUDY OF PERFORMANCE OF A NOVEL MODIFIED ELECTRODE WITH BLEACHING EARTH FOR VOLTAMMETRIC DETERMINATION OF TRACE AMOUNTS OF LEAD
[G. Hisarli](#), [E. Levent](#), and [G. Atun](#)
Istanbul University, Dept. of Chemistry, 34320 Istanbul, TURKEY
- 10-p-16 ELECTROCHEMICAL DETERMINATION OF TRACE AMOUNTS OF MERCURY USING CLAY MODIFIED ELECTRODE
[G. Hisarli](#), [S. Kocaoba](#), [K. Cinku](#), and [E. Levent](#)
Istanbul University, Dept. of Chemistry, 34320 Istanbul, TURKEY
- 10-p-17 MICROALGAE FOR BIODIESEL: SPECIES-SPECIFIC POTENTIAL OF OIL-PRODUCTION IN MASS CULTURES
[M. Mingazzini](#) and [M.T. Palumbo](#)
CNR - IRSA, Water Research Institute, 20047 Brugherio - Milano, ITALY
- 10-p-18 MICROWAVE PRETREATMENT IN ACTIVATED CARBON PRODUCTION FROM BIOMASS
[M. Ozmak](#), [E. Yagmur](#), [E. Demirkan](#), [I.I. Gurten](#), and [Z. Aktas](#)
General Directorate of State Hydraulic Works (DSI), Dept. of Technical Research and Quality Control, Ankara, TURKEY
- 10-p-19 OILSEED CROPS AND BIOFUELS IN TURKEY
[Ö. Öztürk](#) and [F. Akinerdem](#)
Selcuk University, Department Field Crops, 42031 Konya, TURKEY

- 10-p-20 A COMPREHENSIVE EVALUATION OF ELECTRIC POWER GENERATION TECHNOLOGIES FOR THE ACHIEVEMENT OF STRATEGIC ENERGY AND ENVIRONMENTAL TARGETS
[F. Pietrapertosa, C. Cosmi, S. Di Leo, S. Loperte, M. Macchiato, M. Salvia, and V. Cuomo](#)
CNR, Istituto di Metodologie Avanzate di Analisi Ambientale, 85050 Tito Scalo (PZ), ITALY
- 10-p-21 THE ECOSYSTEM APPROACH IN THE INTEGRATED MANAGEMENT OF MARINE COASTAL ZONE. THE ROLE OF THE NET OF ENVIRONMENTAL PROTECTION AGENCIES
[S. Cantoni and F. Serena](#)
Arpa Toscana, Servizio Marino, 57100 Livorno, ITALY
- 10-p-22 THE EXAMINATION OF SHIPPING ACCIDENTS IN TURKEY'S COASTAL AREAS USING CORRESPONDENCE ANALYSIS
[A. Tas and G.B. Alkan](#)
Ministry of Culture and Tourism, Directorate of Rolove and Monumenten, 07050 Antalya, TURKEY
- 10-p-23 INDIVIDUAL AND COMPETITIVE ADSORPTION OF BASIC DYES ONTO ZEOLITE
[G. Hisariý, C. Tezcan, and G. Atun](#)
Istanbul University, Dept. of Chemistry, 34320 Istanbul, TURKEY
- 10-p-24 IMPACTS OF GOLF TOURISM ON LIFE IN THE MEDITERRANEAN REGION
[H. Oguz and B. Topkaya](#)
Akdeniz University, Faculty of Engineering, Dept. of Environ. Engineering, 07200 Antalya, TURKEY
- 10-p-25 EQUILIBRIUM AND KINETIC MODELLING OF SINGLE AND BINARY ADSORPTION OF METHYLENE BLUE AND SAFRANINE T ONTO BLEACHING EARTH
[E. Turker Acar and G. Atun](#)
Istanbul University Engineering Facult, Chemistry Dept., 34850 Istanbul, TURKEY
- 10-p-26 DATA FUSION OF SAR DERIVED FEATURES AND ANCILLARY INFORMATION FOR AUTOMATIC OIL SPILL DETECTION
[M. Vespe, M. Posada, G. Ferraro, B. Bulgarelli, H. Greidanus, and S. Djavidnia](#)
European Commission, Joint Research Centre, 21020 Ispra (VA), ITALY

- 11-p-01 RADIOACTIVITY RELEASE AND DUST PRODUCTION DURING THE CUTTING OF THE PRIMARY CIRCUIT OF A NUCLEAR POWER PLANT
[L. Bonavigo](#), [M. De Salve](#), [M. Zucchetti](#), and [D. Annunziata](#)
Politecnico di Torino, DENER - Dipartimento di Energetica, 10100 Torino, ITALY
- 11-p-02 NANOSTRUCTURED MAGNETOACTIVE HUMICS-BASED SORBENTS FOR RADIONUCLIDES
[A.A. Zaripova](#), [K.A. Kydralieva](#), [T.F. Bondarenko](#), [N.V. Gorbunova](#), [V.S. Muratov](#), [G.I. Dzhardimalieva](#), [N.D. Golubeva](#), [S.I. Pomogailo](#), [A.D. Pomogailo](#), and [Sh. Jorobekova](#)
Institute of Biochemistry & Machine-Building (JSC "Biochimmash"), Dept. of Biotechnology, 125299 Moscow, RUSSIA
- 11-p-03 ENVIRONMENTAL POLLUTION AND HEALTH EFFECTS IN THE QUIRRA AND MADDALENA AREAS, SARDINIA ISLAND (ITALY)
[M. Coraddu](#), [F. Aumento](#), [M. Cristaldi](#), and [M. Zucchetti](#)
Cagliari University, Dept. of Physics, 09042 Monserrato, ITALY
- 11-p-04 DEPLETED URANIUM AT SOUTH ADRIATIC COAST
[D. Dordević](#) and [M. Radenković](#)
University of Belgrade, ICTM-Centre of Chemistry, 11000 Belgrade, SERBIA
- 11-p-05 DEVELOPMENT OF MAGNETOSEPARATIONAL NANOTECHNOLOGY FOR REMEDIATION OF RADIATION POLLUTION
[N.V. Gorbunova](#), [A.V. Mashinistova](#), [N.V. Chekotina](#), [V.S. Muratov](#), [N.V. Bubnov](#), [S.F. Zaturyan](#), [K.A. Kydralieva](#), [A.A. Zaripova](#), [G.I. Dzhardimalieva](#), [S.I. Pomogailo](#), [A.D. Pomogailo](#), [S. Jorobekova](#)
Institute of Biochemistry & Machine-Building (JSC "Biochimmash"), Dept. of Biotechnology, 125299 Moscow, RUSSIA
- 11-p-06 RADON MONITORING IN ALTO LAZIO, ITALY
[A. Mantovano](#), [D. Ripa](#), and [F. Aumento](#)
Radioation Specialisation Course, 01100 Viterbo, ITALY
- 11-p-07 ADSORPTION CHARACTERISTICS OF URANIUM ON BITUMENOUS SHALE
[S. Ortaboy](#) and [G. Atun](#)
Istanbul University Engineering Facult, Chemistry Dept., 34320 Istanbul, TURKEY

Saturday, Oct.10th, 2009

- 11-p-08 VALIDATION OF A METHOD TO MEASURE PLUTONIUM LEVELS IN MARINE SEDIMENTS FROM CUBA
[R.Y. Sibello Hernández](#), [M.L. Cozzella](#), [C.M. Alonso Hernández](#), and [H.A. Cartas Aguila](#)
Centro de Estudios Ambientales de Cienfuegos, Carretera Castillo de Jagua, Cienfuegos, CUBA
- 11-p-09 RADON FLUX VARIATIONS AS EARTHQUAKE PRECURSORS
[F. Aumento](#), [M. Cristaldi](#), and [M. Zucchetti](#)
Geoscientific Consultant, 01027 Montefiascone (VT), ITALY
- 11-p-10 RADIOLOGICAL ENVIRONMENTAL ASSESSMENT ACTIVITIES AT ELECTRICAL ENGINEERING DEPARTMENT OF UNIVERSITY OF ROME "LA SAPIENZA"
[A. Naviglio](#) and [M. Caldarella](#)
Università degli Studi di Roma "La Sapienza", Dipartimento Ingegneria Elettrica, 00184 Roma, ITALY

18.20-18.30: closing ceremony

18.30: poster removal Sessions 4, 8, 9, 10, and 11

Sunday, Oct. 11th

8.30 - 18.30 All-day Post-Symposium Excursion



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