

8th EUROPEAN CONFERENCE ON PESTICIDES AND RELATED ORGANIC MICROPOLLUTANTS IN THE ENVIRONMENT & 14th SYMPOSIUM ON CHEMISTRY AND FATE OF MODERN PESTICIDES

<http://www.pesticides2014.gr>

info@pesticides2014.gr

Ioannina, Greece

September 18-21, 2014

“Karolos Papoulias”

Conference Center

University of Ioannina

Organized by:



✓ EUROPEAN AND MEDITERRANEAN
ASSOCIATION FOR ENVIRONMENTAL
EDUCATION ASSESSMENT AND PROTECTION



✓ DEPARTMENT OF CHEMISTRY SCHOOL
OF SCIENCES UNIVERSITY OF IOANNINA



✓ GRUPPO DI RICERCA ITALIANO
FITOFARMACI E AMBIENTE



✓ INTERNATIONAL ASSOCIATION OF
ENVIRONMENTAL ANALYTICAL CHEMISTRY

FINAL PROGRAMME



1964 -2014 Celebrating the



**50TH ANNIVERSARY
OF THE UNIVERSITY OF IOANNINA**

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Dear participants,

It is our great pleasure to welcome you to Ioannina, (Greece) for the **8th European Conference on Pesticides and Related Organic Micropollutants in the Environment** & the **14th Symposium on Chemistry and Fate of Modern Pesticides**, which are held at **"Karolos Papoulias" Conference Center of the University of Ioannina** from **Thursday, September 18th to Sunday, September 21st 2014**.

The Conference is jointly organized by the:

- **European and Mediterranean Association for Environmental Education Assessment and Protection (ENEAP)**
- **Department of Chemistry, School of Sciences, University of Ioannina**
- **Gruppo di Ricerca Italiano Fitofarmaci e Ambiente (GRIFA)**
- **International Association of Environmental Analytical Chemistry (IAEAC).**

The conference will follow the format of the very successful previous conferences and will provide you with a comprehensive interdisciplinary update on pesticide and other micro pollutant analysis, highlighting the importance of environment and food safety.

Our main objectives vary, from providing a communication forum for the exchange of knowledge and technology among scientists interested in pesticide analysis and related organic micropollutants in environmental and food Matrices, to promoting the collaboration and transfer of knowledge among industry officers, official authorities and environmental managers concerning priority and emerging organic contaminants, particularly pesticides, risk evaluation in the environment and food, analytical breakthroughs, soil and water recovery and algorithms for fate modelling, experimental design and interpretation of data.

Furthermore, it is equally important for us to encourage green analytical procedures and environmental awareness, to support informed regulatory decisions and compliance with legislation, and emphasize the contribution of Environmental and Food Sciences for the well-being of humanity.

The scientific programme incorporates oral and poster sessions and keynote lectures delivered by leading foreign and local experts.

We wish you a productive Conference, and hope you enjoy your time in Ioannina!

Yours sincerely,

Prof. Triantafyllos Albanis

Conference Chairman

Organizers & Committees

Organized by:



European and Mediterranean Association for Environmental Education Assessment and Protection (ENEAP)

Website: http://www.uoi.gr/research/labs/envitech/ENEAP_EN.htm



Department of Chemistry, School of Sciences, University of Ioannina, Greece

Website: <http://www.chem.uoi.gr/>



Gruppo di Ricerca Italiano Fitofarmaci e Ambiente (GRIFA)

Website: <http://www.grifa.org/>



International Association of Environmental Analytical Chemistry (IAEAC)

Website: <http://www.iaec.com/>

1964 -2014 Celebrating the



**50TH ANNIVERSARY
OF THE UNIVERSITY OF IOANNINA**

September 18-21, 2014, Ioannina, Greece

Organizers & Committees

Organizing Committee

CHAIRMAN:	Albanis Triantafyllos	University of Ioannina, Greece
CO-CHAIRMEN:	Albaiges Joan Konstantinou Ioannis	CID-CSIC, Barcelona, Spain University of Patras, Greece
MEMBERS:	Sakkas Vasilios Giokas Dimosthenis Tsoutsis Charoula Boti Vasiliki Goncalves Carlos Kosma Christina Petridis Nikolaos Nannou Christina Kapsi Margarita Tsoufpa Marianna Christopoulou Ourania Kalaboka Maria Rebelaki Ioanna Kaveli Ioanna Synaridou Maria-Evangelia Hadjicostas Christos Trantopoulos Epaminondas Vika Sofia Barda Eleni	University of Ioannina, Greece University of Ioannina, Greece University of Ioannina, Greece University of Ioannina, Greece CIIMAR, Porto, Portugal University of Ioannina, Greece University of Ioannina, Greece University of Ioannina, Greece University of Ioannina, Greece University of Ioannina, Greece University of Ioannina, Greece University of Ioannina, Greece University of Ioannina, Greece University of Ioannina, Greece University of Ioannina, Greece University of Ioannina, Greece University of Ioannina, Greece University of Ioannina, Greece University of Ioannina, Greece

International Scientific Committee

Albaiges Joan	CID-CSIC, Barcelona, Spain
Albanis Triantafyllos	University of Ioannina, Greece
Alpendurada Maria de Fatima	University of Porto, Portugal
Amarlic Laurence	BRGM, Orleans, France
Barcelo Damia	IIQAB-CSIC, Barcelona, Spain
Biziuk Marek	Gdansk University of Technology, Poland
Boti Vasiliki	University of Ioannina, Greece
Braschi Ilaria	University of Bologna, Italy
Budalar Thagarayan	University of Texas at San Antonio, USA
Bufo Sabino Aurelio	University of Basilicata, Potenza, Italy
Calza Paola	University of Turin, Italy
Cerejeira Maria Jose	ISA-ULisboa, Lisbon, Portugal
Dagnac Thierry	CIAM, Universidade da Coruña, Spain
Danis Theoharis	DELCOF SA, Greece
Deligiannakis Yannis	University of Patras, Greece
Dulio Valeria	NORMAN, Paris, France
Fernandez-Alba Amadeo	University of Almeria, Spain
Gago-Martinez Ana	University of Vigo, Spain
Gawlik Bernd	JRC-IES, Ispra, Italy
Gigliotti Giovanni	University of Perugia, Italy
Giokas Dimosthenis	University of Ioannina, Greece
Goncalves Carlos	CIIMAR, Porto, Portugal
Goutner Vasilios	Aristotle University of Thessaloniki, Greece
Grunewald Bernd	Gothe University of Frankfurt, Germany
Hajslova Jana	Institute of Chemical Technology, Prague, Czech Republic
Hela Dimitra	University of Patras, Greece
Hiskia Anastasia	Demokritos National Center of Scientific Research, Greece
Jean Marc Chovelon	IRCELYON, France
Jinno Kiyokatsu	Toyohashi University of Technology, Japan
Jork Imberger	University of Western Australia
Kalokerinos Antonios	National & Kapodistrian University of Athens, Greece
Karras Georgios	TEI of Epirus, Greece
Konidari Konstantina	University of Ioannina, Greece
Konstantinou Ioannis	University of Patras, Greece
Lacorte Sylvia	CID-CSIC, Barcelona, Spain

September 18-21, 2014, Ioannina, Greece

Organizers & Committees

International Scientific Committee

Lampropoulou Dimitra	Aristotle University of Thessaloniki, Greece
Lekka Maria Eleni	University of Ioannina, Greece
Lekkas Themistoklis	University of Aegean, Greece
Llompert Maria	University of Santiago de Compostela, Spain
Manos Georgios	TEI of Epirus, Greece
Mengisoglou-Spiroudi Rania	Aristotle University of Thessaloniki, Greece
Michailidou-Kanna Stella	General Laboratory of Nicosia, Cyprus
Minero Claudio	University of Torino, Italy
Morrissey Anne	Dublin City University, Ireland
Muniategui-Lorenzo Soledad	Universidad da Coruña, Spain
Namiesnik Jacek	Gdansk University of Technology, Poland
Nanos Christos	University of Ioannina, Greece
Papadaki Maria	University of Patras, Greece
Papadopoulou-Mourkidou Ephemía	Aristotle University of Thessaloniki, Greece
Patakioutas Georgios	TEI of Epirus, Greece
Popa Maria	University of Alba Iulia, Romania
Poulos Konstantinos	University of Patras, Greece
Prodromidis Mamandos	University of Ioannina, Greece
Readman James	Plymouth Marine Laboratory, UK
Sakkas Vasilis	University of Ioannina, Greece
Samara Konstantina	Aristotle University of Thessaloniki, Greece
Savvas Dimitrios	Agricultural University of Athens, Greece
Schulte Oehlmann	Ulrike University of Frankfurt, Germany
Sinclair Chris	Construction Labour Solutions Ltd, UK
Slobodnik Jaroslav	Environmental Institute, Slovakia
Srano Laura	University of Basilicata, Potenza, Italy
Stalikas Konstantinos	University of Ioannina, Greece
Steurbaut Walter	University of Ghent, Belgium
Tadeo Jose-Luis	INIA, Spain
Ternes Thomas	German Federal Institute of Hydrology, Germany
Trevisan Marco	University of Piacenza, Italy
Tsipi Despina	General Laboratory of Athens, Greece
Tsoutsis Charoula	University of Ioannina, Greece
Vlastos Dimitrios	University of Patras, Greece
Vlessidis Athanasios	University of Ioannina, Greece
Vosniakos Fokion Alexander	TEI of Thessaloniki, Greece
Zouboulis Anastasios	Aristotle University of Thessaloniki, Greece

Venue

“Karolos Papoulias” Conference Centre

University of Ioannina, P.O. Box 1186,
GR 45110 Ioannina, Greece
Tel: +30 26510 06533

“Karolos Papoulias” Conference Centre is situated in the premises of the Department of Medicine and within walking distance from the Department of Chemistry (850m). It is easily accessible from the city centre by all means of transportation and is a self-contained centre with full support facilities to host all sessions of this scientific event.

Please refer to the university campus map on page 46.

Dates & Hours

Registration

Wednesday, September 17th 2014 19:00 - 20:00
Thursday, September 18th 2014 08:30 - 18:00

Scientific Programme

Thursday, September 18th 2014 09:30 - 18:00
Friday, September 19th 2014 09:00 - 17:00
Saturday, September 20th 2014 09:00 - 15:30
Sunday, September 21st 2014 09:00 - 12:00

Secretariat/Technical Support/Exhibition

Wednesday, September 17th 2014 19:00 - 20:00
Thursday, September 18th 2014 08:30 - 18:00
Friday, September 19th 2014 08:30 - 17:30
Saturday, September 20th 2014 08:30 - 15:30
Sunday, September 21st 2014 08:30 - 13:00

Opening Ceremony

Thursday, September 18th 2014 09:30 - 10:00

Honorary Doctorate Ceremony

Friday, September 19th 2014 18:30

Closing Ceremony and Awards

Sunday, September 21st 2014 11:40-12:00

Official Language & Website

The official language of the Conference is **English**.
Simultaneous translation (interpretation) will not be provided.

Official Website: <http://www.pesticides2014.gr/>

Official email: info@pesticides2014.gr

Registration

Registration Fees (**euro incl. VAT 23%**)

Category	Early Pre-Registration until 20/08/2014	Late Pre-Registration from 21/08/14 & onsite Registration
¹ Participants	300,00 €	350,00 €
¹ ENEAP Members	250,00 €	300,00 €
¹ GRIFA Members	250,00 €	300,00 €
¹ IAEAC Members	250,00 €	300,00 €
¹ Students	150,00 €	200,00 €
² Accompanying visitors	150,00 €	150,00 €

1. Registration Fee includes:

- Admission to the Scientific Sessions
- Admission to the exhibition
- Conference material (badge, bag, final programme, e-Abstract Book, etc.)
- Certificate of Attendance
- Coffee breaks and lunches
- Admission to social events (Cocktail Reception, Excursion, Gala Dinner)

2. Registration Fee includes:

Admission to social events (Cocktail Reception, Excursion, Gala Dinner)

Receipts and Invoices

- Receipts and Invoices for Registration & other expenses paid to Conferre Ltd for individual services will be provided to participants during the Congress by the Secretariat, upon request.
- Invoices to companies will be issued and sent AFTER the Congress (and within one month).

e-Abstract book

All registered participants are entitled to receive a USB-flash disk (4GB) with the e-Abstract Book (included in the Conference material). The e-Abstract Book will include all oral & poster presentations along with the final programme.

Name Badge

All Participants upon confirmation of their registration at the Secretariat will be provided with a **name badge**.

Name badges are necessary for admittance to all the Scientific Sessions, social events, and the exhibition area. You are required to wear your badge (visibly) during all sessions when requesting the Certificate of Attendance (near the closing of the Conference).

Certificate of Attendance

All registered participants are entitled to receive a Certificate of Attendance. The Certificate will be issued only upon display of the participant name badge and upon return of the completed Evaluation Form. Students should also display their Identification Card and/or relative student confirmation document.

Evaluation Form

All participants by the end of the Conference will be requested to complete and deliver to the Secretariat a relative Evaluation Form (anonymous) as feedback of their experience during the Conference.

Technical Support Personnel

The technical support team will be able to assist speakers/presenting authors, with their presentations, during all sessions.

All presenters are kindly requested to provide their presentations (**PowerPoint format in a USB-flash/disk/CD-ROM**) to the technical support personnel **at least one (1) hour before** the beginning of the Session (in order to ensure their presentation runs smoothly). If the presentation is scheduled early in the morning, you are kindly requested to check your presentation with the technical support personnel the day before.

September 18-21, 2014, Ioannina, Greece

General Information

Events

- Cocktail Reception:** at 18.30 on Thursday, September 18th 2014
*Monastery of Agios Georgios Dourouti,
University Cultural centre
(Shuttle bus service will be available)*
- Honorary Dotorate Ceremony:** at 18.30 on Friday, September 19th 2014
In honor of **Prof. Damia Barcelo Culleres**, Spain
*Hall "Georgios Mylonas" University of Ioannina
(In walking distance from the conference center)*
- Gala Dinner:** at 21:00 on Friday, September 19th 2014
(Only upon invitation. For more information please advice your invitation.)
- Excursion:** at 15:30 on Saturday, September 20th 2014
Guided-trip to the small picturesque island of Pamvotis lake. (Shuttle bus service will be available)

Participants are kindly requested to present their badge and invitation for admittance to the above events (valid for 1 person).

Liability and insurance

The Organizers as well as the Organizing-Administrative Bureau/Secretariat of the Conference will assume no liability for injuries or losses of any nature incurred by participants and/or accompanying persons, or for the damage, loss or theft of their personal property during the Conference. Participants are advised to take out their own health, travel and personal insurances.

Mobile Phones

Participants are strongly advised to switch off his/her mobile phone while in Conference Hall.

Organizing-Administrative Bureau/Secretariat

Conferre Ltd

4th klm Ioannina-Dodoni Avenue, GR 45110 Ioannina, Greece

Tel.: (+30) 26510 68610, Fax: (+30) 26510 68611

E-mail: info@conferre.gr, Website: www.conferre.gr

Keynote Lectures

During the conference, four (4) Keynote Lectures will be presented. The duration for each lecture will be **30 minutes**.

Keynote lectures:

LC-Tandem MS Strategies for the Analysis of Contaminants of Emerging Concern in Water, Soil and Sediment Samples

D. Barcelo, *Director of the Catalan Institute of Water Research, ICRA, Girona Spain and Professor at the Institute of Environmental Assessment and Water Research, IDAEA-CSIC, Barcelona, Spain*

Fate of pesticides in experimental field plots: Dissipation kinetics, transport and degradation

I. Konstantinou, *University of Patras, Greece*

Present and future of LC and GC-HRMS for pesticide residue analysis in food

A.R. Fernández-Alba, *University of Almeria, Spain*

New and futuristic methods for decontamination of water

S.A. Bufo, *University of Basilicata, Potenza - Italy*

Oral Presentations

The duration for each oral presentation should not exceed **15 minutes**. Each presentation will be followed by a **5-minutes discussion**.

Speakers are strongly advised to be consistent with the time slots (as provided by the scientific programme), respect the flow of each session and the exact time available for each presentation. It is also highly advisable that speakers rehearse their presentation to ascertain that the time is not exceeded.

Poster Sessions

The Poster dimensions should be **100cm height x 80cm width** and they will be displayed as follows:

SESSION	DATE	TIME OF PRESENTATION	PLACEMENT	DISMOUNT
Session I (PP01-PP21)	Thursday, September 18, 2014	15:00 - 16:00	8:30	18:00
Session II (PP22-PP44)	Friday, September 19, 2014	15:00 - 16:00	8:30	17:30
Session III (PP45-PP67)	Saturday, September 20, 2014	15:00 - 15:30	8:30	15:30

You may find a list of all the posters on pages 32-42

Please note that posters will remain mounted according to the sessions of **each day** and should be removed by the end of the programme on the same day (please refer to the table above). Any posters not dismantled on time **will not be kept** and may be disposed of.

Awards

During the Closing Ceremony, the two best Oral Presentations & the best Poster will be awarded.

Presenters should bear in mind that their presence during the Closing Ceremony is required for the award nomination procedure.

GRIFA Award

*The **two best Oral presentations** will be awarded by GRIFA with a 500EUR grant each. The Scientific Committee will evaluate the scientific relevance of the addressed issue and the quality of the presentations. In the case of equal qualification, the youngest researcher will be awarded.*

Roland W. Frei Award

*The Best **Poster** presented during the Conference will be received with the Roland W. Frei Award (sponsored by IAEAC).*

The Roland W. Frei Award is given for the best poster at conferences (co) organized by the International Association of Environmental Analytical Chemistry (IAEC). The judgment is made by an independent committee appointed by the organizers of the respective meeting and should when possible include a member of the Extended Executive Committee of IAEAC. The choice of the awardee, who is the author of the poster awarded, should be based on the scientific value of the work as well as on the quality of the presentation and preferably go to young scientists in research and academia.

International Journal of Environmental Analytical Chemistry

As in previous editions of the Conference, the Proceedings will be published in a special issue of the International Journal of Environmental Analytical Chemistry (IF: 1.32). The authors are kindly asked to submit their manuscript through the Journal website (<http://mc.manuscriptcentral.com/geac>), where they will find all relevant instructions. For any question, please contact the Journal editor (Joan Albaiges, albqam@cid.csic.es).

Deadline for submission: 31 October 2014

Wednesday, September 17, 2014

19:00 - 20:00 Registration

Thursday, September 18, 2014

08:30 Registration / Poster Placement - Session I

09:30 - 10:00 Opening Ceremony

10:00 - 11:50 **SESSION I**

New analytical techniques and strategies for organic pollutants analysis in environmental matrices I

Chairs: **T. Albanis, A.R. Fernández-Alba**

10:00 - 10:30

KEYNOTE LECTURE (K1)

LC-Tandem MS Strategies for the Analysis of Contaminants of Emerging Concern in Water, Soil and Sediment Samples
D. Barcelo

Director of the Catalan Institute of Water Research, ICRA, Girona Spain and Professor at the Institute of Environmental Assessment and Water Research, IDAEA-CSIC, Barcelona, Spain

10:30 - 11:50

ORAL PRESENTATIONS (OP01-OP04)

OP01 ACT1080 DEVELOPMENT OF A NOVEL ION-ASSOCIATED THIN-FILM EXTRACTION METHOD FOR THE DETERMINATION OF UV FILTER RESIDUES IN NATURAL WATERS

J.L. Benedé^{1,2}, **D.L. Giokas**^{1*}, A. Chisvert², A. Salvador²

¹Laboratory of Analytical Chemistry, Department of Chemistry, University of Ioannina, Greece

²Departamento de Química Analítica, Facultad de Química, Universitat de València, 46100 Burjassot, Valencia, Spain

OP02 ACT1088 TARGET AND NON-TARGET ANALYSIS OF PESTICIDE RESIDUES AND THEIR METABOLITES IN FOOD AND WATER MATRICES USING GC-MS/MS AND LC-MS/MS

Scientific Programme

H. Botitsi, S. Antoniou, E. Koykeas, **D. Tsipi***
General Chemical State Laboratory, 16 An. Tsoha, Athens 11521, Greece

OP03 ACT1120 CHEMOMETRIC OPTIMIZATION OF DISPERSIVE SUSPENDED MICROEXTRACTION FOLLOWED BY GAS CHROMATOGRAPHY - MASS SPECTROMETRY FOR THE DETERMINATION OF POLYCYCLIC AROMATIC HYDROCARBONS IN NATURAL WATERS
N. P. Petridis*, V. A. Sakkas, T. A. Albanis
Laboratory of Analytical Chemistry, Department of Chemistry, University of Ioannina, Ioannina 45110, Greece

OP04 ACT1118 EVALUATION OF A MULTIRESIDUE METHODOLOGY FOR THE DETERMINATION OF PESTICIDES RESIDUES IN NATURAL WATERS. a CASE STUDY: LOUROS RIVER (EPIRUS REGION)
M. Kapsi*, Ch. Tsoutsis, T. Albanis
Laboratory of Analytical Chemistry, Department of Chemistry, University of Ioannina, Panepistimioupolis, Ioannina, 45110, Greece

11:50 - 12:30 Coffee Break

12:30 - 13:30 SESSION II

New analytical techniques and strategies for organic pollutants analysis in environmental matrices II
Chairs: **M.F. Alpendurada, A. Vlessidis**

12:30-13:30 ORAL PRESENTATIONS (OP05-OP07)

OP05 ACT1031 DEVELOPMENT OF A GAS CHROMATOGRAPHIC-MASS SPECTROMETRIC METHOD FOR THE SIMULTANEOUS DETERMINATION OF PHENOXY ACIDS AND PHENOLS IN WATER SAMPLES AS Silyl DERIVATIVES
N. J. Xanthopoulou*, T. Katranas, M. Papagianni, A. Papaioannou
Thessaloniki Drinking Water Treatment Plant, Ionia Thessaloniki, 57008

OP06 ACT1044 DISPERSIVE LIQUID-LIQUID MICRO EXTRACTION METHOD USING MAGNETIC IONIC LIQUIDS FOR THE DETERMINATION OF PHENOLIC ENDOCRINE DISRUPTERS AND ACIDIC

Scientific Programme

PHARMACEUTICALS IN AQUEOUS MATRICES

T. Chatzimitakos, C. Binellas, K. Maidatsi, C. Stalikas*
*Laboratory of Analytical Chemistry, University of Ioannina,
45110 Ioannina, Greece*

- OP07 ACT1060** EVALUATING THE RESPONSE OF PASSIVE SBSE TOWARDS CONCENTRATION PEAKS OF PESTICIDES IN FRESH WATER
A. Assoumani*, **C. Margoum**, A. Lombard, C. Guillemain,
M. Coquery
*Irstea, UR MALY, centre de Lyon-Villeurbanne, 5 rue de la Doua-CS
70077, F-69626 Villeurbanne cedex, France*

13:30 - 15:00 Lunch

15:00 - 16:00 **POSTER SESSION I** (PP01-PP21)

16:00 - 18:00 **SESSION III**

Levels of pesticide residues in the environment and agricultural products

Chairs: **U. Sunlu, D. Hela**

16:00-18:00 **ORAL PRESENTATIONS (OP08-OP11)**

- OP08 ACT1075** DETERMINATION OF THE ANTIDIABETIC DRUG METFORMIN AND ITS TRANSFORMATION PRODUCT GUANYLUREA IN WASTEWATERS IN GREECE

C. I. Kosma¹, D. A. Lambropoulou², T. A. Albanis¹

¹*Department of Chemistry, University of Ioannina, Ioannina
45110, Greece*

²*Department of Chemistry, Aristotle University of Thessaloniki,
Thessaloniki, 54124, Greece*

- OP09 ACT1081** OCCURRENCE AND ENVIRONMENTAL RISK ASSESSMENT OF PHARMACEUTICALS IN SURFACE WATERS IN NW GREECE

C.I. Nannou*, C.I. Kosma, T. A. Albanis

*Lab of Analytical Chemistry, Dept. of Chemistry, University of
Ioannina, 45 110, Ioannina, Greece*

- OP10 ACT1085** ASSESSING SUBSURFACE LATERAL TRANSFER OF PESTICIDES

Scientific Programme

ABOVE A LOW-PERMEABLE HORIZON, IN A VINEYARD SLOPPY SOIL

X. Peyrard*, L. Liger, C. Guillemain, N. Carluer, V. Gouy
IRSTEA National Research Institute of Science and Technology for Environment and Agriculture, Irstea centre de Lyon-Villeurbanne, Villeurbanne, France

OP11 ACT1115 IMPROVE VINIFICATION OF MUSTS WITH RESIDUES OF PESTICIDES AND EFFECT OF RESIDUES IN THE QUALITY OF WINES

A. Karampatea

Oenopolis, Enological Laboratory, Drama 66100, Greece

18:00 *Poster Dismount - Session I*

18:30 *Cocktail Reception*

Monastery of Agios Georgios Dourouti, University Cultural centre

Friday, September 19, 2014

08:30 *Poster Placement - Session II*

09:00 - 11:10 SESSION IV

Fate and Removal of organic micropollutants in the environment I

Chairs: **S.A. Bufo, D. Lambropoulou**

09:00 - 09:30 **KEYNOTE LECTURE (K2)**

Fate of pesticides in experimental field plots: Dissipation kinetics, transport and degradation

I. Konstantinou

University of Patras, Greece

09:30 - 11:10 **ORAL PRESENTATIONS (OP12-OP16)**

OP12 ACT1019 EFFECT OF DIFFERENT FACTORS ON THE MOBILITY OF CYMOXANIL IN A VINEYARD SOIL

A. Álvarez-Martín*, J.M. Ordax, M.S. Rodríguez-Cruz,
M.J. Sánchez-Martín

Scientific Programme

*Instituto de Recursos Naturales y Agrobiología de Salamanca
(IRNASA-CSIC), Cordel de Merinas 40-52, 37008 Salamanca,
España;*

OP13 ACT1025 ASSESSMENT OF TRANSFORMATION PROCESSES OF EMERGING POLLUTANTS OCCURRING IN SURFACE WATERS

P. Calza^{1*}, C. Medana², M. Sarro¹, C. Baiocchi², C. Minero¹

¹*Department of Chemistry, University of Turin, Torino, Italy*

²*Department of Molecular Biotechnology and Health Sciences, University of Turin, Torino, Italy*

OP14 ACT1065 FATE AND REMOVAL OF PHARMECEUTICALS IN WATERS FROM AQUACULTURE: THE CASE OF CIPROFLOXACIN

M. Pflieger^{*}, M. Franko

Laboratory for Environmental Research, University of Nova Gorica, Vipavska 13, SI-5001 Nova Gorica, Slovenia

OP15 ACT1113 OCCURRENCE, REMOVAL AND ENVIRONMENTAL RISK ASSESSMENT OF PPCPs IN WASTEWATER TREATMENT PLANT (WWTP) OF GREECE (VOLOS)

M. Papageorgiou, **D.A. Lambropoulou**^{*}

Environmental Pollution Control Laboratory, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, 54124, Greece

OP16 ACT1010 PHOTOLYTIC DEGRADATION OF ALLOXYDIM ON MODEL SOIL SURFACES AND PHYTOTOXICITY STUDY OF ITS MAIN PHOTOPRODUCT

P. Sandín-España^{1*}, **B. Sevilla-Morán**¹, M. Villarroja-Ferruz¹,

M. Mateo-Miranda¹, J.L. Alonso-Prados¹, M.I. Santín-Montanya²

¹*DTEVPF - Unit of Plant Protection Product, INIA, Madrid, Spain*

²*Department of Plant Protection, INIA, Madrid, Spain*

11:10 - 11:40 Coffee Break

11:40 - 14:00 **SESSION V**

New analytical techniques and strategies for organic pollutants analysis in food matrices

Chairs: **J. Hajslova, T. Dagnac**

Scientific Programme

11:40-12:10 **KEYNOTE LECTURE (K3)**
Present and future of LC and GC-HRMS for pesticide residue analysis in food

A.R. Fernández-Alba

University of Almeria, Spain

12:10-14:00 **ORAL PRESENTATIONS (OP17-OP21)**

OP17 ACT1083 ANALYSIS OF FUNGICIDE RESIDUES IN WHITE GRAPE MARC BY PRESSURIZED LIQUID EXTRACTION. METHOD PERFORMANCE COMPARISON OF GAS AND LIQUID CHROMATOGRAPHY TRIPLE QUADRUPOLE MASS SPECTROMETRY

T. Dagnac^{1*}, M. Celeiro², J. P. Lamas², M. Lores², C. Garcia-Jares², M. Llompert²

¹*Galician Institute for Food Quality (INGACAL), Agronomic and Agrarian Research Centre (CIAM), E-15080, A Coruña, Spain.*

²*Department of Analytical Chemistry, Nutrition and Food Science, Faculty of Chemistry. Campus Vida. University of Santiago de Compostela, E-15782, Santiago de Compostela, Spain*

OP18 ACT1034 DEVELOPMENT OF NEW CERTIFIED REFERENCE MATERIALS AS KEY TOOL FOR QUALITY ANALYSIS OF PESTICIDE RESIDUES IN VEGETABLES

S. Grimalt*, J. Seghers, S. Harbeck, P. Shegunova, B. Sejerøe-Olsen, H. Emteborg, M. Dabrio

European Commission, Joint Research Centre, Institute for Reference Materials and Measurements, 111 Retieseweg, 2440 Geel, Belgium

OP19 ACT1055 ANALYSIS OF MULTIPLE PESTICIDE RESIDUES IN MELON USING LIQUID CHROMATOGRAPHY TRIPLE QUADRUPOLE MASS SPECTROMETRY

M.D.H. Prodhan*, E.-N. Papadakis, E. Papadopoulou-Mourkidou
Pesticide Science Laboratory, School of Agriculture, Aristotle University of Thessaloniki, Thessaloniki 5412, Greece

OP20 ACT1084 DEVELOPMENT OF AN ENZYME-LINKED IMMUNOSORBENT ASSAY FOR THE DETERMINATION OF THIABENDAZOLE IN WHITE WINES

Scientific Programme

Z. Tsialla^{1*}, A. Uclés², P. Petrou¹, A.R. Fernández-Alba², S.E. Kakabakos¹

¹*Immunosensors Lab, INRaSTES, NCSR «Demokritos», Ag. Paraskevi, Greece*

²*European Union Reference Laboratory for Pesticide Residues in Fruit & Vegetables, University of Almeria, Agrifood Campus of International Excellence (ceiA3), Spain*

OP21 ACT1107 DETERMINATION OF ACRYLAMIDE IN LOW AND HIGH FAT CONTENT FOOD BY DIFFERENT VARIATIONS OF THE QUECHERS METHOD

A. Vrettakou, G. Miliadis*, G. Siragakis
Food Allergens Laboratory, Athens

14:00 - 15:00 Lunch

15:00 - 16:00 POSTER SESSION II (PP22-PP44)

16:00 - 17:00 SESSION VI

Fate and Removal of organic micropollutants in the environment II

Chairs: **S. Lacorte, R. Mengisoglou-Spiroudi**

16:00-17:00 **ORAL PRESENTATIONS (OP22-OP24)**

OP22 ACT1104 NEW MITIGATION MEASURES TO REDUCE THE RUNOFF AND EROSION IN EXPERIMENTAL FIELD IN POLAND ACCORDING TOTOPPS PROWADIS RECOMMENDATIONS

M. Bielasik-Rosińska*, D. Maciaszek
Institute of Environmental Protection National Research Institute, 00-548 Warsaw, Poland

OP23 ACT1007 PHOTOLYSIS OF PESTICIDES ON LEAVES CUTICLE MODELS: DIRECT vs SENSITIZED REACTIONS

C. Richard^{1,2*}, S. Monadjemi^{1,2}, J. Chastain^{1,2}

¹*Clermont Université, Université Blaise Pascal, Institut de Chimie de Clermont-Ferrand, BP 10448, F-63000 Clermont-Ferrand, France*

²*CNRS, UMR 6296, ICCF, F-63171 Aubièrre, France*

Scientific Programme

OP24 ACT1051 ECOSUSTAINABLE PEST CONTROL: ALDEHYDES OF KNOWN NEMATICIDAL ACTIVITY EMBEDDED IN POROUS MATRICES FOR A TUNED ACTION

S. Blasioli¹, S. Pillai², L. Leardini³, A. Martucci⁴, **I. Braschi**^{1,5*}

¹ *Dipartimento di Scienze Agrarie, Università di Bologna, Bologna, Italy*

² *Group ISA Lille, Université Catholique de Lille, Lille, France*

³ *Dipartimento di Fisica e Scienze della Terra, Università di Messina, Messina, Italy*

⁴ *Dipartimento di Fisica e Scienze della Terra, Università di Ferrara, Ferrara, Italy*

⁵ *Gruppo di Ricerca Italiano Fitofarmaci e Ambiente (GRIFA), Italy*

17:30 *Poster Dismount - Session II*

18:30 **HONORARY DOCTORATE CEREMONY:** *Awarding of the Honorary Doctorate of the University of Ioannina to **Prof. Damia Barcelo Culleres**, Spain*

Hall "Georgios Mylonas" University of Ioannina

21:00 **Gala Dinner** (*Upon Invitation*)

Saturday, September 20, 2014

08:30 *Poster Placement - Session III*

09:00 - 11:30 **SESSION VII**

Environmental protection and remediation techniques

Chairs: **P. Calza, I. Konstantinou**

09:00-09:30 **KEYNOTE LECTURE (K4)**
New and futuristic methods for decontamination of water
S.A. Bufo

University of Basilicata, Potenza - Italy

09:30-11:30 **ORAL PRESENTATIONS (OP25-OP30)**

OP25 ACT1023 BIOFILTER MATERIAL FOR DECONTAMINATION OF POINT SOURCE POLLUTION OF PESTICIDES

Scientific Programme

S. Mukherjee*, W. Tappe, L. Weihermueller
*Forschungszentrum Jülich GmbH, Helmholtz Association,
Agrosphere Institute (ICG 4/IBG3), 52425 Jülich, Germany*

OP26 ACT1049 CLEAN-UP OF WATER POLLUTED WITH VETERINARY SULFONAMIDE ANTIBIOTICS BY HIGH SILICA ZEOLITE Y: FROM MODEL STUDIES TO REAL APPLICATIONS AND REGENERATION TECHNIQUES

I. Braschi^{1,2*}, S. Blasioli¹, L. L. Mzini¹, E. Buscaroli¹, A. Martucci³, L. Marchese^{4,5}

¹ *Dipartimento di Scienze Agrarie, Università di Bologna, Bologna, Italy*

² *Gruppo di Ricerca Italiano Fitofarmaci e Ambiente (GRIFA), Italy*

³ *Dipartimento di Fisica e Scienze della Terra, Università di Ferrara, Ferrara, Italy*

⁴ *Dipartimento di Scienze e Innovazione Tecnologica*

⁵ *Centro Interdisciplinare Nano-SiSTeMI; Università del Piemonte Orientale A. Avogadro, Alessandria, Italy*

OP27 ACT1053 REMOVAL OF SELECTED ENDOCRINE DISRUPTORS FROM SECONDARY EFFLUENT BY RESIN ADSORPTION AND PHOTOCATALYSIS

I. Tzatzimaki^{1*}, D. Mantzavinos², E. Diamadopoulos¹

¹ *Department of Environmental Engineering, Technical University of Crete, 73100 Chania, Greece*

² *Department of Chemical Engineering, University of Patras, 26500 Patras, Greece*

OP28 ACT1096 EFFICIENCY OF SOME PHARMACEUTICALS' REMOVAL FROM AQUEOUS ENVIRONMENTS BY USING PHOTODEGRADATION COUPLED WITH TiO₂ POWDER DISPERSION AND TiO₂ IMMOBILIZED ON BLUE GLASS SLABS

L. Scrano^{1*}, F. Lelario², S. Khalaf², S.Sulaiman², R. Karaman³, S.A. Bufo²

¹ *Department of European Culture (DICEM)*

² *Department of Science, University of Basilicata, Potenza, Italy*

Scientific Programme

³ *Department of Bioorganic Chemistry, Faculty of Pharmacy, Al-Quds University, Jerusalem, Palestine*

OP29 ACT1111 TRAMADOL DEGRADATION BY MEANS OF HETEROGENEOUS PHOTOCATALYSIS: KINETICS, IDENTIFICATION OF TRANSFORMATION PRODUCTS AND MECHANISM INVOLVED

M. Antonopoulou, I. K. Konstantinou*

Department of Environmental and Natural Resources Management, University of Patras, 30100, Agrinio, Greece

OP30 ACT1112 REMOVAL AND PHOTO-DEGRADATION OF AQUEOUS SOLUTIONS OF FOUR MEDICINES

G. Kostoulas, S. Georgopoulos, M. Papadaki

Department of Environmental & Natural Resources Management, University of Patras, Agrinio, Seferi 2, 30100, Greece

11:30 - 12:00 Coffee Break

12:00 - 14:20 **SESSION VIII**

Ecotoxicity and environmental risk assessment

Chairs: **M.E. Lekka**, **D. Vlastos**

12:00-14:20

ORAL PRESENTATIONS (OP31-OP37)

OP31 ACT1046 EFFECT OF THE INSECTICIDES CHLORPYRIFOS, SPINOSAD AND SPINETORAM ON NATURAL POPULATIONS OF EPIGEAL ARTHROPODS

F. G. Lefkaditis^{1,2*}, G. D. Arapis¹, C. G. Athanassiou³, N. G. Kavallieratos⁴, K. D. Anastasiadou², V. A. Panou²

¹ *Laboratory of Ecology and Environmental Sciences, Agricultural University of Athens, Athens, Greece*

² *Department of Organic Farming, Technological Educational Institute of Ionian Islands, Argostoli, Greece*

³ *Laboratory of Entomology and Applied Zoology, Department of Agriculture, Crop Production and Rural Environment, University of Thessaly, Magnissia, Greece*

⁴ *Laboratory of Agricultural Entomology, Department of Entomology and Agricultural Zoology, Benaki Phytopathological Institute, Kifissia, Greece*

Scientific Programme

- OP32 ACT1063** ISOLATION AND CHARACTERIZATION OF ALLELOPATHIC COMPOUND FROM AMBROSIA ARTEMISIIFOLIA
F. Molinaro*, C. Mozzetti Monterumici, M. Negre
DISAFA Department of Agricultural, Forest and Food Sciences, University of Turin, Grugliasco, Italy
- OP33 ACT1067** MULTIPLIER EFFECTS OF PENDIMETHALIN HERBICIDE USE: EVIDENCE FROM GREECE
K. Mattas^{1,2}, **A. Michailidis**^{1,3*}, E. Tsakiridou^{1,2}
¹ *Aristotle University of Thessaloniki, Greece*
² *Laboratory of Agricultural Marketing and Policy, Department of Agricultural Economics, School of Agriculture*
³ *Laboratory of Agricultural Extension and Rural Sociology, Department of Agricultural Economics, School of Agriculture*
- OP34 ACT1037** A HAZARD-RANKING SYSTEM FOR PESTICIDES USED IN GREEK AGRICULTURE BASED ON THEIR CARCINOGENIC POTENTIAL
Ch. Nikolaidis¹, M. Panagopoulou², M. Karaglani², E. Nena¹, M. Chatzaki³, A. Tselempois¹, Ch. Tsoukalas¹, Th. Constantinidis¹, A. Chatzaki²
¹ *Laboratory of Hygiene and Environmental Protection, Medical School Democritus University of Thrace, Alexandroupolis, Greece*
² *Laboratory of Pharmacology, Medical School Democritus University of Thrace, Alexandroupolis, Greece*
³ *Laboratory of Ecology and Systematics, Department of Molecular Biology and Genetics, Democritus University of Thrace, Alexandroupolis, Greece*
- OP35 ACT1038** A HAZARD-RANKING SYSTEM FOR PESTICIDES USED IN GREEK AGRICULTURE BASED ON THEIR ENDOCRINE DISRUPTING POTENTIAL
Ch. Nikolaidis^{1*}, M. Panagopoulou², M. Karaglani², E. Nena¹, M. Chatzaki³, A. Tselempois¹, Ch. Tsoukalas¹, Th. Constantinidis¹, A. Chatzaki²
¹ *Laboratory of Hygiene and Environmental Protection, Medical School Democritus University of Thrace, Alexandroupolis, Greece*
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Scientific Programme

University of Thrace, Alexandroupolis, Greece

³*Laboratory of Ecology and Systematics, Department of Molecular Biology and Genetics, Democritus University of Thrace, Alexandroupolis, Greece*

OP36 ACT1121 TETRAHYMENA THERMOPHILA^{**}: A MODEL FOR TOXICITY MONITORING THROUGH PROTEOMICS

M.E. Lekka^{1*}, E. Gkatzou¹, G. Panagiotou², M Samiotaki²

¹*Laboratory of Biochemistry, Chemistry Department, University of Ioannina-Greece*

²*Alexander Fleming Biomedical Sciences Research Center, Vari, Greece*

OP37 ACT1057 ARPEGES, A METHOD TO ASSESS THE RISK OF SURFACE WATERS CONTAMINATION BY PESTICIDES AT THE NATIONAL SCALE

C. Malavaud¹, T. Tormos², N. Carluet¹, N. Bougon², G. Le Hénaff¹, J. Piffady¹, V. Gouy¹

¹*Irstea, UR MALY, F-69626 Villeurbanne, France*

²*Onema, pôle d'étude et recherche Onema/Irstea, UR MALY, F-69626 Villeurbanne, France*

14:20 - 15:00 Lunch

15:00 - 15:30 **POSTER SESSION III** (PP45-PP67)

15:30 *Poster Dismount - Session III*

15:30 Excursion

Sunday, September 21, 2014

09:00 - 11:40 **SESSION IX**

Application of chemometric methods to micropollutant analysis and environmental fate

Chairs: **C. Stalikas, V. Sakkas**

09:00-11:40 **ORAL PRESENTATIONS (OP38-OP45)**

Scientific Programme

- OP38 ACT1056** DEVELOPMENT AND APPLICATION OF A MAGNETIC SOLID-PHASE EXTRACTION FOR THE DETERMINATION OF ENDOCRINE DISRUPTORS IN MILK SAMPLES BY GAS CHROMATOGRAPHY MASS SPECTROMETRY
M.-E. S. Synaridou*, V. A. Sakkas, C. D. Stalikas, T. A. Albanis
Laboratory of Analytical Chemistry, Chemistry Department, University of Ioannina, Ioannina 45110, Greece
- OP39 ACT1058** DEVELOPMENT AND OPTIMIZATION OF AN SPE, LC-MS/MS METHOD FOR THE SIMULTANEOUS DETERMINATION OF 24 PESTICIDES IN WATER USING EXPERIMENTAL DESIGN
S.-K. Zervou*¹, C. Christophoridis¹, T. Kaloudis², T. Triantis¹, A. Hiskia¹
¹ *National Center for Scientific Research "Demokritos", IAMPPNM, 15310 Athens, Greece*
² *Water Quality Department, Athens Water Supply and Sewerage Company (EYDAP SA), Athens, Greece*
- OP40 ACT1095** DETERMINATION OF PESTICIDE RESIDUES IN WINE BY MONOLITHIC MATERIAL SORPTION EXTRACTION (MMSE)
A. T. Papadi-Psyllou, N. G. Tsiropoulos*
Department of Agriculture, Crop Production & Rural Environment, Analytical Chemistry and pesticides Laboratory, University of Thessaly, 38446 Nea Ionia - Volos, Greece
- OP41 ACT1061** COMBINED IMPACTS OF PHYSICAL AND CHEMICAL PARAMETERS ON THE ACCUMULATION RATE OF PESTICIDES IN SBSE STIR BARS USED AS PASSIVE SAMPLERS
A. Assoumani*, C. Margoum, C. Guillemain, M. Coquery
Irstea, UR MALY, centre de Lyon-Villeurbanne, 5 rue de la Doua-CS 70077, F-69626 Villeurbanne cedex, France
- OP42 ACT1087** CHEMOMETRIC ASSESSMENT AND INVESTIGATION OF MECHANISM INVOLVED IN PHOTO-FENTON AND TiO₂ PHOTOCATALYTIC DEGRADATION OF THE ARTIFICIAL SWEETENER SUCRALOSE IN AQUEOUS MEDIA
P. Calza¹, V.A. Sakkas², C. Medana³, **A.D. Vlachou***^{2*}, F. Dal Bello³, T.A. Albanis²

Scientific Programme

¹Department of Chemistry and NIS Centre, University of Torino, via P. Giuria 7, 10125 Torino, Italy

²Department of Chemistry, University of Ioannina, Ioannina 45110, Greece

³Department of Chemistry, University of Torino, via P. Giuria 5, 10125 Torino, Italy

OP43 ACT1018 ASSESSING THE PRESENCE OF PHARMACEUTICAL RESIDUES IN IRRIGATED CROPS BY LIQUID CHROMATOGRAPHY TANDEM MASS SPECTROMETRY

E. Hapeshi^{1*}, A. Christou², G. Maratheftis², C. Michael¹, D. Fatta-Kassinou¹

¹Nireas, International Water Research Center, University of Cyprus, Nicosia, Cyprus

²Agricultural Research Institute, Nicosia, Cyprus

OP44 ACT1119 QUECHERS EXTRACTION METHOD FOR THE ACCURATE AND HIGH RESOLUTION DETECTION OF EMERGING CONTAMINANTS IN DAIRY PRODUCTS BY LC-HYBRID LTQ ORBITRAP MS

V. Kobothebra, V. Boti*, T. Albanis

Laboratory of Analytical Chemistry, Department of Chemistry, University of Ioannina, Ioannina, Greece

OP45 ACT1048 ASSOCIATION BETWEEN DIABETES AND USE OF PESTICIDES: A SYSTEMATIC REVIEW AND META-ANALYSIS

G. Ntritsos^{1*}, E. Evangelou^{1,2}, M. Chondrogiorgi¹, E. E. Ntzani¹, I. Tzoulaki^{1,2}

¹Department of Hygiene and Epidemiology, University of Ioannina Medical School, Ioannina, Greece

²Department of Biostatistics and Epidemiology, Imperial College London, London, UK

11:40 - 12:00 Closing Ceremony - Awards

Chairs: **T. Albanis**, **A.R. Fernandez-Alba**, **I. Konstantinou**

Wednesday, September 17, 2014

19:00 - 20:00 *Registration*

Thursday, September 18, 2014

08:30 *Registration / Poster Placement - Session I*

09:30 - 10:00 Opening Ceremony

10:00 - 11:50 **SESSION I**

New analytical techniques and strategies for organic pollutants analysis in environmental matrices I

11:50 - 12:30 Coffee Break

12:30 - 13:30 **SESSION II**

New analytical techniques and strategies for organic pollutants analysis in environmental matrices II

13:30 - 15:00 Lunch

15:00 - 16:00 **POSTER SESSION I** (PP01-PP21)

16:00 - 18:00 **SESSION III**

Levels of pesticide residues in the environment and agricultural products

18:00 *Poster Dismount - Session I*

18:30 Cocktail Reception

Friday, September 19, 2014

08:30 *Poster Placement - Session II*

09:00 - 11:10 **SESSION IV**

Fate and Removal of organic micropollutants in the environment I

11:10 - 11:40 Coffee Break

September 18-21, 2014, Ioannina, Greece

- 11:40 - 14:00** **SESSION V**
New analytical techniques and strategies for organic pollutants analysis in food matrices
- 14:00 - 15:00** Lunch
- 15:00 - 16:00** **POSTER SESSION II** (PP22-PP44)
- 16:00 - 17:00** **SESSION VI**
Fate and Removal of organic micropollutants in the environment II
- 17:30** *Poster Dismount - Session II*
- 18:30** **HONORARY DOCTORATE CEREMONY:** *Awarding of the Honorary Doctorate of the University of Ioannina to **Prof. Damia Barcelo Culleres**, Spain
Hall "Georgios Mylonas" University of Ioannina*
- 21:00** Gala Dinner

Saturday, September 20, 2014

- 08:30** *Poster Placement - Session III*
- 09:00 - 11:30** **SESSION VII**
Environmental Protection and remediation techniques
- 11:30 - 12:00** Coffee Break
- 12:00 - 14:20** **SESSION VIII**
Ecotoxicity and environmental risk assessment
- 14:20 - 15:00** Lunch
- 15:00 - 15:30** **POSTER SESSION III** (PP45-PP66)
- 15:30** *Poster Dismount - Session III*
- 15:30** Excursion

Sunday, September 21, 2014

- 09:00 - 11:40** **SESSION IX**
Application of chemometric methods to micropollutant analysis and environmental fate
- 11:40 - 12:00** Closing Ceremony - Awards

Poster sessions

Session I

Thursday, September 18th 2014

15:00 – 16:00

Placement: 08:30 / Dismount: 18:00

PP01

ACT1069

A THREE YEAR STUDY OF THE SPATIAL AND TEMPORAL VARIATION OF PESTICIDES RESIDUES IN VIOTIKOS KIFISSOS BASIN AFTER THE APPLICATION OF LOW INPUT CROP MANAGEMENT SYSTEMS

A.C. Charalampous^{1,3*}, **K. Machera**², **G.E. Miliadis**, **M. A. Koupparis**³

¹ National Reference Laboratory of Pesticides Residues, Benaki Phytopathological Institute

² Head at Laboratory of Toxicological Control of Pesticides

³ Laboratory of Analytical Chemistry, Faculty of Chemistry, University of Athens

PP02

ACT1097

RESIDUES OF INSECTICIDES AND HEAVY METALS CONTENT IN FRUIT SAMPLES

S. Lazic^{*}, **D. Šunjka**

Faculty of Agriculture, University of Novi Sad, Novi Sad, Serbia

PP03

ACT1105

UPTAKE AND FRUIT CONTAMINATION OF CHLORDECONE IN ZUCCHINI (*CUCURBITA PEPO*)

F. Laurent^{*}, **C. Letondor**, **S. Pascal-Lorber**

Xénobio/chimie Végétale-Ecseco, INRA, USC 5245 ECOLAB, 180 chemin de Tournefeuille, BP 93170 – 31027 Toulouse Cedex 03

PP04

ACT1015

COMPARISON OF THE PERFORMANCES OF STIR BAR SORPTIVE EXTRACTION (SBSE) COUPLED TO GC-MS-MS AND UHPLC-MS-MS FOR THE ANALYSIS OF PESTICIDES IN FRESHWATERS

C. Guillemain^{*}, **C. Margoum**, **A. Assoumani**, **M. Coquery**

Irstea, UR MALY, centre de Lyon-Villeurbanne, 5 rue de la Doua-CS 70077, F-69626 Villeurbanne cedex, France

PP05

ACT1036

MULTI-CLASS PESTICIDE RESIDUE ANALYSIS USING POLY(DIVINYLBENZENE-STYRENE)-COATED OLEIC ACID-MAGNETITE NANOPARTICLES AND GC-MS

A. Dados^{1*}, **E. Kartsiouli**¹, **A. Louppis**¹, **C. Papastephanou**¹, **C. Stalikas**²

¹cp FOODLAB Ltd, Polyfonti 25, Strovolos, Nicosia, Cyprus

²Department of Chemistry, Laboratory of Analytical Chemistry, University of Ioannina, 45110 Ioannina, Greece

PP06

ACT1043

OCTYLAMINE-MODIFIED GRAPHENE AS A SORBENT FOR THE EXTRACTION AND SIMULTANEOUS DETERMINATION OF ALLERGEN-FRAGRANCES, MUSKS AND PHTHALATES IN AQUEOUS SAMPLES

K. Maidatsi, **T. Chatzimitakos**, **V. Sakkas**, **C. Stalikas**^{*}

Laboratory of Analytical Chemistry, University of Ioannina, 45110 Ioannina, Greece

PP07

ACT1062

A NON-DESTRUCTIVE ASSAY OF TOTAL DITHIOCARBAMATE PESTICIDES COMBINING SOLID PHASE EXTRACTION WITH GOLD NANOPARTICLES AS DETECTION PROBES**D. L. Giokas, G. Z. Tsogas, A. G. Vlessidis****Laboratory of Analytical Chemistry, Department of Chemistry, University of Ioannina, 45110 Ioannina, Greece***PP08**

ACT1071

A NEW METHOD FOR THE SIMULTANEOUS DETERMINATION OF 219 PESTICIDES AND 13 NON DIOXIN LIKE PCBs IN WATER USING LCMSMS AND GCMS⁽ⁿ⁾ SYSTEMS**A. C. Charalampous^{1,2*}, G.E. Miliadis, M. A. Koupparis²**¹*National Reference Laboratory of Pesticides Residues, Benaki Phytopathological Institute*²*Laboratory of Analytical Chemistry, Faculty of Chemistry, University of Athens***PP09**

ACT1078

COMPARISON OF THREE MICROEXTRACTION TECHNIQUES FOR THE RAPID AND SENSITIVE DETERMINATION OF FRAGRANCE ALLERGENS IN WATER SAMPLES**O. D. Christopoulou, M. G. Kapsi, M.-E. S. Synaridou, E. C. Zota, F. V. Lezos, K. N. Teloni, V. A. Sakkas*, T. A. Albanis***Laboratory of Analytical Chemistry, Chemistry Department, University of Ioannina, Ioannina 45110, Greece***PP10**

ACT1101

GAS CHROMATOGRAPHY AND LIQUID CHROMATOGRAPHY COUPLED TO TRIPLE QUADRUPOLE-MASS SPECTROMETRY FOR THE ANALYSIS OF UV FILTERS COMMONLY USED IN PERSONAL CARE PRODUCTS**M. Llompart¹, J. P. Lamas¹, M. Vila¹, C. Garcia-Jares¹, Th. Dagnac^{2*}**¹*Laboratory of Research and Development of Analytical Solutions (LIDSA), Department of Analytical Chemistry, Nutrition and Food Science, Faculty of Chemistry, Campus Vida, University of Santiago de Compostela, E-15782 Santiago de Compostela, Spain*²*Galician Institute for Food Quality (INGACAL), Agronomic and Agrarian Research Centre (CIAM), Apartado 10, 15080 A Coruña, Spain***PP11**

ACT1108

LABORATORY CALIBRATION OF 14 PESTICIDES USING POLAR ORGANIC CHEMICAL INTEGRATIVE SAMPLERS**A.A. Thomatou¹, I. Konstantinou^{1*}**¹*Department of Environmental and Natural Resources Management, University of Patras, 30100, Agrinio, Greece***PP12**

ACT1114

ULTRASOUND-VORTEX-ASSISTED DISPERSIVE LIQUID-LIQUID MICROEXTRACTION COUPLED WITH LIQUID CHROMATOGRAPHY TANDEM MASS SPECTROMETRY FOR SIMULTANEOUS ANALYSIS OF HERBICIDES AND FUNGICIDES IN WATER**N. Tsavdaris^{1,2}, E.-N. Papadakis², D. Lambropoulou¹, E. Papadopoulou-Mourkidou²**¹*Environmental Pollution Control Laboratory, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, 54124, Greece*²*Pesticide Science Laboratory, Faculty of Agriculture, Aristotle University of Thessaloniki, Thessaloniki, Greece*

PP13 ACT1028

DEVELOPMENT AND SINGLE-LABORATORY VALIDATION OF A NEW HIGH-PERFORMANCE LIQUID CHROMATOGRAPHIC MULTI-PESTICIDE METHOD OF ANALYSIS OF COMMERCIAL FORMULATIONS CONTAINING ACETAMIPRID, AZOXYSTROBIN, FLUOMETURON, DIFLUBENZURON AND TOPRAMEZONE

G. Balayiannis*, H.Karasali

Laboratory of Chemical Control of Pesticides, Department of Pesticides Control and Phytopharmacy, Benaki Phytopathological Institute, 8 St. Delta Street, Kifissia, 14561 Athens, Greece

PP14 ACT1030

IN-HOUSE DEVELOPMENT OF A POLYCLONAL ANTIBODY FOR THE IMMUNOANALYSIS OF THE POLLUTANT 2,4,6-TRICHLOROPHENOL

V. Vassilakopoulou¹, C.-E. Karachaliou¹, A. Evangelou¹, P.S. Petrou², S.E. Kakabakos², C. Zikos¹, E. Livaniou^{1*}

¹*Immuno peptide Chemistry Lab*

²*Immunoassays-Immuno sensors Lab, INRaSTES, NCSR "Demokritos" Aghia Paraskevi Attikis, Athens 153 10, Greece*

PP15 ACT1059

CYANOWATER - CYANOTOXINS IN FRESH WATERS, ADVANCES IN ANALYSIS, OCCURRENCE AND TREATMENT

A. Hiskia^{1*}, T. Triantis¹, T. Kaloudis², C. Christophoridis¹, T. Fotiou¹, **S.-K. Zervou¹**

¹*National Center for Scientific Research "Demokritos", IAMPPNM, 15310 Athens, Greece*

²*Water Quality Department, Athens Water Supply and Sewerage Company (EYDAP SA), Oropou 156, 11146 Galatsi, Athens, Greece*

PP16 ACT1079

COMPARISON OF LLE AND SPE FOR THE DETERMINATION OF LIDOCAINE IN URINE SAMPLES BY GAS CHROMATOGRAPHIC (GC-MS)

S. I. Vika, D. A. Papagiannaki, V. A. Sakkas, T. A. Albanis

Laboratory of Analytical Chemistry, Chemistry Department, University of Ioannina, Ioannina 45110, Greece

PP17 ACT1082

DETERMINATION OF NICOTINE IN SALIVA SAMPLES USING SINGLE DROP MICROEXTRACTION COMBINED WITH GAS CHROMATOGRAPHY-MASS SPECTROMETRY

E. D. Barda, K. I. I. Barmpetsea, V. A. Sakkas*, T. A. Albanis

Laboratory of Analytical Chemistry, Chemistry Department, University of Ioannina, Ioannina 45110, Greece

PP18 ACT1064

PASSIVE SAMPLING: A TOOL FOR ASSESSMENT BROAD SPECTRUM ORGANIC MICROPOLLUTANTS IN STRYMONAS RIVER, N. GREECE

E. Terzopoulou*, D. Voutsas

Environmental Pollution Control Laboratory, Chemistry Department, Aristotle University, Thessaloniki, Greece

PP19 ACT1106

INCLUSION COMPOUNDS OF AUXINS IN CYCLODEXTRINS

K. Fourtaka*, K. Bethanis

Physics Lab., Dpt of Biotechnology, Agricultural University of Athens, 75 Iera Odos (118 55), Athens, Greece

PP20

ACT1117

QUANTITATIVE DETERMINATION OF PESTICIDE RESIDUES IN SURFACE WATERS USING THE INNOVATIVE HYBRID LINEAR IONTRAP- ORBITRAP MASS SPECTROMETRY**C.Nannou¹, V.Boti^{1*}, C.Tsoutsi¹, Manos S.¹, I.Konstantinou², G.Patakioutas³, G.Karras³, T.Albanis¹**¹*Dept. of Chemistry, University of Ioannina, 45 110, Ioannina, GREECE*³*Dept. of Environmental & Natural Resources Management, University of Patras, 30100, Agrinio, GREECE*³*Dept. of Agricultural Technology, TEI of Epirus, 47100, Kostakioi, Arta, GREECE***PP21**

ACT1123

SYNTHESIS OF C18 MAGNETIC NANOPARTICLES FOR THE DETERMINATION OF C60 FULLERENE IN WATER**M. Kalampoka, V. A. Sakkas*, C. D Stalikas, T. A. Albanis***Laboratory of Analytical Chemistry, Chemistry Department, University of Ioannina, Ioannina 45110, Greece***Session II****Friday, September 19th 2014****15:00 – 16:00***Placement: 08:30 / Dismount: 17:30***PP22**

ACT1008

HETEROGENOUS PHOTOCATALYTIC DEGRADATION AND MINERALIZATION OF THE HERBICIDE THIACTOPRID**C. Berberidou*, V. Kitsiou, D. Michailidou, D. Lambropoulou, A. Kouras, I. Poulis***Laboratory of Physical Chemistry, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece***PP23**

ACT1013

COMPUTATIONAL INVESTIGATION OF THE DEGRADATION MECHANISM OF METOLACHLOR**A. Mylona Kosmas*, G. Rossos, K. Zioga***Division of Physical Chemistry, Department of Chemistry, University of Ioannina, Greece 45110***PP24**

ACT1016

A COMPUTATIONAL STUDY OF THE WATER CATALYSED DEGRADATION OF BROMOMETHANOL**D. K. Papayannis¹, A. M. Kosmas²**¹*Department of Material Science and Engineering, University of Ioannina, GR 45 110, Ioannina Greece*²*Division of Physical Chemistry, Department of Chemistry, University of Ioannina, GR 45 110, Ioannina Greece***PP25**

ACT1017

INFLUENCE OF HERBICIDE TRIASULFURON ON SOIL MICROBIAL COMMUNITY IN UNAMENDED AND AMENDED SOILS**E. Pose-Juan*, J.M. Igual, N. Curto, M.J. Sánchez-Martín, M.S. Rodríguez-Cruz***Institute of Natural Resources and Agrobiolgy of Salamanca (IRNASA-CSIC), Cordel de Merinas 40-52, 37008 Salamanca (Spain)*

PP26

ACT1027

EFFICIENT PHOTOCATALYTIC DEGRADATION OF ORGANIC POLLUTANT IN WATER USING TITANIA PREPARED BY ELECTROSPINNING TECHNIQUE

G. Skouras^{1*}, A. Mitsionis¹, D. Petrakis¹, T. Albanis¹, N. Todorova², C. Trapalis², T. Vaimakis¹

¹Department of Chemistry, University of Ioannina, Ioannina, Greece

²Institute of Material Science, NCSR, "Demokritos", Ag.Paraskevi, Athens, Greece

PP27

ACT1090

DEGRADATION OF CONGO RED IN SURFACE WATER SAMPLES AFTER THE SYNTHESIS OF NANOCOMPOSITES OF TiO₂ AND REDUCED GRAPHENE OXIDE

C. A. Hadjicostas*, K. I. Zioga, E. K. Michalopoulou, V. A. Sakkas*, T. A. Albanis

Laboratory of Analytical and Environmental Chemistry, Department of Chemistry, University of Ioannina

PP28

ACT1091

ADSORPTION OF METOPROLOL TARTRATE ONTO IOTA-CARRAGEENAN MODIFIED BY GLUTARALDEHYDE MATRIX AND PREPARED BY SPRAY-DRYING

A. C. Tzereme¹, S. G. Nanaki², G. Z. Kyzas^{2*}, M. Papageorgiou¹, D. N. Bikiaris², D. A. Lambropoulou^{1*}

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²Laboratory of Organic Chemical Technology, Department of Chemistry, Aristotle University of Thessaloniki, GR-541 24 Thessaloniki, Greece

PP29

ACT1094

SYNTHESIS AND CHARACTERIZATION OF NANOCOMPOSITES OF TiO₂ AND REDUCED GRAPHENE OXIDE FOR DEGRADATION OF EMERGING POLLUTANTS IN DIFFERENT WATER MATRICES AND COMPARISON WITH TiO₂

C. A. Hadjicostas, V. A. Sakkas*, T. A. Albanis

Laboratory of Analytical and Environmental Chemistry, Department of Chemistry, University of Ioannina, Greece

PP30

ACT1102

FACTORS AFFECTING THE PHOTODEGRADATION OF AQUATIC RESIDUES OF TWO WIDELY USED VETERINARY DRUGS: SULFADIAZINE AND TRIMETHOPRIM

P. Beza*, C. Nathanailides

Department of Fisheries and Aquaculture Technology, Technological Educational Institute of Western Greece, 30200, Messolonghi

PP31

ACT1103

EFFECTIVENESS OF AOP_s PROCESSES FOR THE REMOVAL OF EMERGING CONTAMINANTS FROM WASTEWATER: THE MEPANIPYRIM CASE

M. Brienza^{1,2}, M. Mahdi Ahmed³, A. Escande³, G. Plantard¹, L. Scrano⁴, S. Chiron³, S. A. Bufo^{2*}, V. Goetz¹

¹PROMES-CNRS, UPR 8521, Perpignan, France

²Department of Science, University of Basilicata, Potenza, Italy

³HydroSciences Montpellier, UMR 5569, Université de Montpellier, France

⁴Department of European Culture, University of Basilicata, Matera, Italy

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ACT1074

DISSIPATION OF PESTICIDES IN AN AMENDED SOIL AT TWO RATES AND ITS IMPACT ON THE SOIL MICROBIAL COMMUNITY

A. Álvarez-Martin^{1,2*}, G. Bending², S. L. Hilton², M.S. Rodríguez-Cruz¹, M.J. Sánchez-Martín¹

¹*Instituto de Recursos Naturales y Agrobiología de Salamanca (IRNASA-CSIC), Cordel de Merinas 40-52, 37008 Salamanca, España;*

²*School of Life Sciences, University of Warwick, Coventry CV4 7AL, United Kingdom*

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ACT1074

DEVELOPMENT OF NOVEL CATALYTIC BIOSCAVENGERS FOR HERBICIDE DETOXIFICATION

F. Pouliou, F. Perperopoulou, N. E. Labrou*

Laboratory of Enzyme Technology, Department of Agricultural Biotechnology, Agricultural University of Athens, Greece

PP34

ACT1076

GLOBAL SENSITIVITY ANALYSIS OF PESTICIDE LOSSES IN STRUCTURED TILE-DRAINED SOIL

R. Dairon^{1,2}, C. Lauvernet², B. Cheviron, N. Carluer²

¹*Arvalis-Institut du végétal, 3 rue Joseph et Marie Hackin 75016 Paris*

²*Irstea, UR MALY, 5 rue de la Doua, F-69626 Villeurbanne, France*

PP35

ACT1086

FATE OF CYPRODINIL AND FLUDIOXONIL RESIDUES IN STORED APPLES AT OZONE-ENRICHED ATMOSPHERE

A. Papadi-Psyllou, D. Tsouris, G. Mergialis, N. G. Tsiropoulos

Department of Agriculture, Crop Production & Rural Environment, Analytical Chemistry and pesticides Laboratory, University of Thessaly, 38446 Nea Ionia - Volos, Greece

PP36

ACT1089

REMOVAL OF TRIMETHOPRIM AS ORGANIC MICROPOLLUTANT IN AQUEOUS MATRICES USING MODIFIED CHITOSAN SUPER-ADSORBENT BEADS

M. M. Laimou-Geraniou¹, G. Z. Kyzas², S. G. Nanaki², A. I. Koltsakidou¹, D. N. Bikiaris², D. A. Lambropoulou^{1,*}

¹*Laboratory of Environmental Pollution Control, Department of Chemistry, Aristotle University of Thessaloniki, GR-541 24 Thessaloniki, Greece*

²*Laboratory of Organic Chemical Technology, Department of Chemistry, Aristotle University of Thessaloniki, GR-541 24 Thessaloniki, Greece*

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ACT1093

SYNTHESIS OF MOLECULARLY IMPRINTED POLYMERS (MIPS) FOR THE SELECTIVE REMOVAL OF IBUPROFEN FROM BIOMEDICAL WASTEWATERS

G. Z. Kyzas*, D. N. Bikiaris

Laboratory of Organic Chemical Technology, Department of Chemistry, Aristotle University of Thessaloniki, GR-541 24 Thessaloniki, Greece

SOIL DISSIPATION AND TRANSPORT OF THE HERBICIDE QUIZALOFOP-P-ETHYL IN SUNFLOWER CULTIVATED FIELD PLOTS**N. Mantzos^{1,2}, A. Karakitsou^{2,3}, D. Hela², G. Karras¹, I. Konstantinou²**¹ Faculty of Agricultural Technology, T.E.I. of Epirus, Arta, Greece² Department of Business Administration of Food and Agricultural Products, University of Patras, Agrinio, Greece³ Department of Environmental and Natural Resources Management, University of Patras, Agrinio, Greece**ENVIRONMENTAL FATE OF METAZACHLOR HERBICIDE IN RAPESEED CULTIVATED FIELD PLOTS****N. Mantzos^{1,2}, A. Karakitsou^{2,3}, S. Nikolaki³, E. Leneti¹, I. Konstantinou²**¹ Faculty of Agricultural Technology, T.E.I. of Epirus, Arta, Greece² Department of Business Administration of Food and Agricultural Products, University of Patras, Agrinio, Greece³ Department of Environmental and Natural Resources Management, University of Patras, Agrinio, Greece**MULTIRESIDUE METHOD FOR THE SIMULTANEOUS DETERMINATION OF 55 PESTICIDES IN WATERMELONS****V. Bursić^{1*}, G. Vuković², T. Zeremski³, R. Čabilovski¹, R. Baličević⁴, M. Meseldžija¹, D. Malenčić¹**¹ Faculty of Agriculture, Department for Plant and Environmental Protection, University of Novi Sad, Serbia² Institute of Public Health, Bulevar Despota Stefana 54a, 11000 Belgrade, Serbia³ Institute of Field and Vegetable Crops, Novi Sad, Serbia⁴ Faculty of Agriculture, Josip Juraj Strossmayer University in Osijek, Croatia**HIGH ACCURACY ON SINGLE RESIDUE ANALYSIS OF SELECTED PESTICIDES IN CUCUMBER BY GC-MS/MS****P. Shegunova*, B. Sejerøe-Olsen, S. Grimalt, S. Harbeck, M. Dabrio**

European Commission, Joint Research Centre, Institute for Reference Materials and Measurements, 111 Retieseweg, 2440 Geel, Belgium

DEVELOPMENT AND VALIDATION OF A METHOD FOR THE SIMULTANEOUS DETERMINATION OF PAHs AND NDL-PCBs IN FISH USING GAS CHROMATOGRAPHY COUPLED TO MASS SPECTROMETRY**A. C. Charalampous^{1,2*}, G.E. Miliadis, M. A. Koupparis²**¹ National Reference Laboratory of Pesticides Residues, Benaki Phytopathological Institute² Laboratory of Analytical Chemistry, Faculty of Chemistry, University of Athens**APPLICATION OF GC-MS AND LTQ-ORBITRAP-MS FOR THE DETERMINATION AND RISK ASSESSMENT OF EDCs IN FRUITS AND VEGETABLES****I. P. Kaveli*, V. A. Sakkas, T. A. Albanis**

Laboratory of Analytical and Environmental Chemistry, Department of Chemistry, University of Ioannina, Ioannina 45110, Greece

PP44

ACT1098

NON-TARGETED SCREENING AND ACCURATE MASS CONFIRMATION OF PESTICIDES AND MYCOTOXINS ON THE UHPLC-LTQ-ORBITRAP MASS SPECTOMETRY

E. V. Grana, A. A. Koutalia, I. P. Kaveli, I. E. Rempelaki, T. A. Albanis, V. A. Sakkas*

Laboratory of Analytical and Environmental Chemistry, Department of Chemistry, University of Ioannina

Session III

Saturday, September 20th 2014

15:00 – 15:30

Placement: 08:30 / Dismount: 15:30

PP45

ACT1011

NEW ORGANOMETALLIC COMPOUNDS OF TIN: ASSESSMENT OF THE *IN VITRO* GENOTOXICITY

A. Damati^{1*}, D. Vlastos¹, A. I. Philippopoulos², D. P. Matthopoulos¹

¹Department of Environmental and Natural Resources Management, University of Patras, Agrinio Campus, Agrinio, Greece

²Department of Chemistry, National and Kapodistrian University of Athens, Greece

PP46

ACT1012

CHANGES IN ANTIOXIDANT SYSTEMS IN SOYBEAN AND ASSOCIATED WEEDS TREATED WITH LINURON AND DIMETHENAMID

D. Malenčić*, D. Prvulović*, V. Bursić, B. Popović, B. Kiproviski

Faculty of Agriculture, University of Novi Sad, Trg D. Obradovića 8, 21000 Novi Sad, Serbia

PP47

ACT1014

EFFECTS OF NATURALLY OCCURRING ALUMINOSILICATES ON SERUM BIOCHEMICAL INDICES OF CHICKENS INTOXICATED BY PARAQUAT

D. Prvulović^{1*}, Dj. Malenčić¹, M. Popović¹, D. Kojić², G. Grubor-Lajšić²

¹ Faculty of Agriculture, University of Novi Sad, Novi Sad, Serbia

² Faculty of Science, University of Novi Sad, Novi Sad, Serbia

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ACT1021

ORGANOCHLORINE PESTICIDES AND POLYCHLORINATED BIPHENYLS IN AUTOPSY LUNGS FROM EPIRUS, GREECE

G. Rallis^{1,2}, V. Boumba^{1*}, V. Sakkas², K. Fragkouli¹, G. Siozios¹, T. Albanis², Th. Vougiouklakis¹

¹ Forensic Medicine & Toxicology, Department of Medicine, School of Health Sciences

² Analytical Chemistry, Department of Chemistry, University of Ioannina, 45110 Ioannina, Greece

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ACT1029

HIGHER-TIER RISK ASSESSMENT OF INSECTICIDE IMIDACLOPRID IN PORTUGUESE RICE PADDIES: PART I – CALIBRATION OF RICEWQ MODEL

A. Pereira, M. Rodrigues, M. J. Cerejeira*

CEER – Biosystems Engineering, Instituto Superior de Agronomia (ISA), University of Lisbon (ULisboa), Lisbon, Portugal

PP50

ACT1035

INFLUENCE ON FIELD SOIL INVERTEBRATES OF PESTICIDES APPLICATION AND SOIL MANAGEMENT PROCEDURES OF THREE CROPS UNDER MEDITERRANEAN CONDITIONS**S. Leitão¹, M.J.Cerejeira^{1*}, J. P. Sousa²**¹ *Instituto Superior de Agronomia, University of Lisbon, Centro de Engenharia dos Biosistemas (CEER), Tapada da Ajuda, 1349-017 Lisboa, Portugal*² *IMAR-CMA, Department of Life Sciences, University of Coimbra, Apartado 3046, 3001-401 Coimbra, Portugal***PP51**

ACT1045

METABOLOMIC STUDY OF THE IMPACT OF IRON, COPPER AND IRON-COPPER NANOPARTICLES ON GRAM POSITIVE AND NEGATIVE BACTERIA**T. Chatzimitakos¹, A. Kallimanis², C. Stalikas^{1*}**¹ *Laboratory of Analytical Chemistry, University of Ioannina, 45110 Ioannina, Greece*² *Laboratory of Food Chemistry, University of Ioannina, 45110 Ioannina, Greece***PP52**

ACT1047

PESTICIDE LEVELS AND ENVIRONMENTAL RISK ASSESSMENT IN THE SURFACE WATERS OF LAKE VISTONIS BASIN**E.-N. Papadakis^{1*}, A. Tsaboula¹, A. Kotopoulou¹, K. Kintzikoglou¹, Z. Vryzas², E. Papadopoulou-Mourkidou¹**¹ *Pesticide Science Laboratory, Faculty of Agriculture, Aristotle University of Thessaloniki, Thessaloniki, Greece*² *Laboratory of Agricultural Pharmacology and Ecotoxicology, Faculty of Agricultural Development, Democritus University of Thrace, Orestias, Greece***PP53**

ACT1073

DISSIPATION KINETIC OF CLODINAFOP-PROPARGYL IN RESISTANT AND SUSCEPTIBLE BIOTYPES OF *PHALARIS BRACHYSTACHYS***K. Doitsinis¹, Z. Vryzas^{1*}, C. Alexoudis¹, E. Papadakis², G. Vassiliou¹**¹ *Laboratory of Agricultural Pharmacology and Ecotoxicology, Department of Agricultural Development, Democritus University of Thrace, 193 Pantazidou, 682 00 Orestias, Greece*² *Faculty of Agriculture, Pesticide Science Laboratory, Aristotle University of Thessaloniki, P.O.Box 1678, 54124 Thessaloniki, Greece***PP54**

ACT1006

ADSORPTIVE CAPACITIES OF CHEMICALLY PREPARED CARBON FROM WOOD WASTE**K. M. Lamari^{*}***Department of soil and water. Zawia University. Zawia – Libya***PP55**

ACT1022

TOOLS FOR BIOPESTICIDES DEVELOPMENT WITHIN THE EUROPEAN LEGISLATIVE FRAMEWORK**J. J. Villaverde^{*}, P. Sandín-España, B. Sevilla-Morán, C. López-Goti, J. L. Alonso-Prados**
Plant Protection Products Unit, DTEVPF, INIA, Ctra. de La Coruña, Km. 7.5, 28040 Madrid, Spain

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ACT1032

SALT MARSH PLANTS AS POTENTIAL AGENTS FOR THE CONTAINMENT OF PAHS CONTAMINATION IN SEDIMENTS OF PORTUGUESE LAGOONS AND ESTUARIES**C. Gonçalves^{1*}, C. Teixeira¹, M. C. P. Basto², C. M. R. Almeida¹**¹ *Interdisciplinary Centre of Marine and Environmental Research (CIIMAR/CIMAR), University of Porto, Rua dos Bragas 289, 4050-123 Porto, Portugal*² *CIIMAR/CIMAR and Faculty of Sciences, University of Porto, Rua do Campo Alegre, s/n, 4169-007 Porto, Portugal***PP57**

ACT1039

CHANGES IN FARMERS' ATTITUDE TOWARDS SAFE HANDLING OF PESTICIDES AFTER AN EDUCATIONAL CAMPAIGN**Ch. Pogonidis¹, E. Xenodochidou¹, Ch. Nikolaidis^{1*} E. Nena¹, M. Chatzaki², A. Tselemonis¹, A. Chatzaki³, Th. Constantinidis¹**¹ *Laboratory of Hygiene and Environmental Protection, Medical School Democritus University of Thrace, Alexandroupolis, Greece*² *Laboratory of Ecology and Systematics, Department of Molecular Biology and Genetics, Democritus University of Thrace, Alexandroupolis, Greece*³ *Laboratory of Pharmacology, Medical School Democritus University of Thrace, Alexandroupolis, Greece***PP58**

ACT1040

DYNAMICS OF TROPICAL FORESTS: DISCOVERING NEW PHARMACEUTICAL SUBSTANCES I. Tzouvelekis^{2*}, O. Kalampaliki¹, M. Filippiadou¹, P. Vogiatzis³, M. Tzouveleki-Mironidou¹¹ *A Laboratory Pharmacology, Faculty of Health, Medical Department, Aristotle University of Thessaloniki*² *Agriculture Engineering, ATEI Thessaloniki*³ *Department of Civil Engineering, Aristotle University of Thessaloniki***PP59**

ACT1041

PESTICIDES AND MENTAL HEALTH**M. Filippiadou¹, P. Vogiatzis³, O. Kalampaliki¹, I. Tzouvelekis², M. Tzouveleki-Mironidou^{1*}**¹ *A' Laboratory Pharmacology, Faculty of Health, Medical Department, Aristotle University of Thessaloniki*² *Agricultural Engineering, ATEI Thessaloniki*³ *Department of Civil Engineering, Aristotle University of Thessaloniki***PP60**

ACT1042

ARE WE INHALING DISEASES?**O. Kalampaliki¹, M. Filippiadou¹, I. Tzouvelekis², P. Vogiatzis³, M. Tzouveleki-Mironidou^{1*}**¹ *A' Laboratory Pharmacology, Faculty of Health, Medical Department, Aristotle University of Thessaloniki*² *Agricultural Engineering, ATEI Thessaloniki*³ *Department of Civil Engineering, Aristotle University of Thessaloniki***PP61**

ACT1054

MICROALGAE FOR REMOVAL OF INORGANIC COMPOUNDS AND PESTICIDES FROM WATER**A. Baglieri¹, S. Sidella¹, V. Barone¹, M. Nègre^{2*}, M. Gennari¹**¹ *Department of Sciences of Production, Agricultural and Food, University of Catania, Italy*² *Department of Sciences Agricultural, Forestry and Food, University of Turin, Italy*

PP62

ACT1072

CLONING AND CHARACTERIZATION OF HERBICIDE-DEGRADING GLUTATHIONE TRANSFERASES FROM CICER ARIETINUM**K. G. Kontouri, N. E. Labrou****Laboratory of Enzyme Technology, Department of Biotechnology, Agricultural University of Athens, Greece***PP63**

ACT1116

SEASONAL INFLUENCE IN THE REMOVAL EFFICIENCIES OF ANTI-INFLAMMATORIES AND/OR ANALGESICS IN WWTPs**A. M. P. T. Pereira¹, L. J. G. Silva¹, C. M. Lino¹, M. F. Alpendurada², L. M. Meisel³, A. Pena^{1*}**¹ *Group of Health Surveillance, CEF, Faculty of Pharmacy, University of Coimbra, Coimbra, Portugal*² *IAREN, Water Institute of the Northern Region, Matosinhos, Portugal*³ *INFARMED, I.P. - National Authority of Medicines and Health Products, 1749-004 Lisboa, Portugal***PP64**

ACT1077

NON-TARGETED UHPLC FINGERPRINTING AND MULTIVARIATE STATISTICAL ANALYSIS OF BIOLOGICAL SAMPLES FOR DISEASE DIAGNOSIS**O. Christopoulou¹, M. Paraskevaidi¹, G. Valasoulis², S. M. Stasinou^{2,5}, M. Kyrgiou³, K. Tsarchopoulos⁴, V. Boti¹, V. Sakkas^{1*}, E. Paraskevaidis², T. Albanis¹**¹ *Laboratory of Analytical Chemistry, Chemistry Department, University of Ioannina, Ioannina, Greece*² *Department of Obstetrics & Gynaecology, Ioannina University Hospital Ioannina, Greece*³ *West London Gynaecological Cancer Center, Department of Obstetrics & Gynaecology, Queen Charlotte's and Chelsea Hospital, Hammersmith Hospital, London, UK*⁴ *Target Analysis S.A Company, Thessaloniki, Greece*⁵ *Create Health Organization London, UK***PP65**

ACT1122

REMOVAL OF PHARMACEUTICAL RESIDUES FROM WATER BY ADSORPTION ONTO ACTIVATED AND LOW COST CARBON MATERIALS**M. Tsoulfa¹, Ch. Tsoutsis¹, I. Konstantinou² and T. Albanis¹**¹ *Laboratory of Analytical Chemistry, Department of Chemistry, University of Ioannina, Ioannina, Greece*² *Department of Environmental and Natural Resources Management, University of Patras, Agrinio, Greece***PP66**

ACT1124

MULTI-RESIDUE DETERMINATION OF PESTICIDES AND METABOLITES IN OLIVE OIL USING MODIFIED QUECHERS EXTRACTION AND GC-MS**A. Karakitsu¹, D. Hela^{*1}**¹ *Laboratory of Plant Science Production, Department of Agricultural Products and Food Business Administration, University of Patras, Greece***PP67**

ACT1099

DETERMINATION AND RISK ASSESSMENT OF ZEARALENONE IN BEERS, BY DISPERSIVE SUSPENDED MICRO-EXTRACTION IN COMBINATION WITH LC-MS**I. E. Rempelaki^{*}, T. A. Albanis, V. A. Sakkas***Laboratory of Analytical and Environmental Chemistry, Department of Chemistry, University of Ioannina*

Invited Faculty

- Triantafyllos Albanis** Professor, Department of Chemistry, University of Ioannina, Greece
- Maria de Fatima Alpendurada** Associate Professor, Oporto University, President of IAREN- Water Institute of The Northern Region, Portugal
- Damia Barcelo Culleres** Director of the Catalan Institute of Water Research, ICRA, Girona Spain and Professor at the Institute of Environmental Assessment and Water Research, IDAEA-CSIC, Barcelona, Spain
- Sabino Aurelio Bufo** Professor, Department of Science, University of Basilicata, Potenza, Italy
- Paola Calza** Professor, Department of Chemistry, University of Turin, Italy
- Thierry Dagnac** Dr, Researcher, Leader of the research area "Environmental assessment and food/feed safety of organic contaminants in the agrarian productive processes", CIAM (Agricultural and Agrarian Research Center), INGACAL (Galician Institute for Food Quality), Spain
- Yiannis Deligiannakis** Professor in Physical Chemistry of Materials & Environment, Department of Environmental and Natural Resources Management, University of Patras, Greece
- Amadeo R. Fernández-Alba** European Union Reference Laboratory for Pesticide Residues in Fruit & Vegetables, University of Almeria, Spain
- Jana Hajslova** Head, Department of Food Analysis and Nutrition Institute of Chemical Technology, Prague, Czech Republic

September 18-21, 2014, Ioannina, Greece

- Dimitra **Hela** Associate Professor, Instrumental Analysis-Environmental Management, Department of Agricultural Products and Food Business Administration, University of Patras, Greece
- Ioannis **Konstantinou** Associate Professor, Department of Environment and Natural resources Management, University of Patras, Greece
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- Maria Eleni **Lekka** Professor of Biochemistry, University of Ioannina, Greece
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- Ugur **Sunlu** Professor, Department of Hydrobiology, Faculty of Fisheries, Ege University, Izmir, Turkey
- Dimitrios **Vlastos** Assistant Professor in Environmental Mutagenesis, Department of Environmental and Natural Resources Management, University of Patras, Greece
- Athanasios **Vlessidis** Associate Professor, Department of Chemistry, Laboratory of Analytical Chemistry, University of Ioannina, Greece

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- **B:** Cocktail Reception
- **C:** Honorary Doctorate Ceremony

