



September 26-28, 2016

Livorno (Italy)

3rd MS ENVI Day

September 26-28, 2016

Centro Congressi Villa Henderson

Livorno (Italy)

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The 3rd MS Envi Day

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MEDAGLIA DSM-SCI “FABRIZIO BRUNER”

La Divisione di Spettrometria di Massa della Società Chimica Italiana ha istituito a partire dall'anno 2000 la *Medaglia “Fabrizio Bruner”* da assegnare a scienziati italiani in riconoscimento del contributo dato allo sviluppo della spettrometria di massa in Italia.

Anno 2016:

Prof. Antonio Di Corcia

in riconoscimento della sua attività di ricerca nel campo della cromatografia, delle metodologie di preparazione del campione e della spettrometria di massa rivolta allo sviluppo di procedure innovative per l'analisi in tracce di microinquinanti organici e loro metaboliti nelle acque ambientali, nel terreno, negli alimenti e nei tessuti animali.

Vincitori delle precedenti edizioni:

2000 Prof. Sergio Facchetti

2001 Prof. Rosario Nicoletti

2002 Prof. Antonio Selva

2003 Dr. Luigi Zerilli

2004 Prof. Salvatore Pignataro

2005 Prof. Alessandro Ballio, Prof. Antonio Malorni, Prof. Gennaro Marino

2006 Prof. Gian Angelo Vaglio

SCIENTIFIC PROGRAMME

Monday, September 26

2:00 p.m.	Registration
2:30 p.m.	<p>Welcome and opening ceremony</p> <p>Dott. Gaetano Licitra Coordinatore Area Vasta Costa ARPA Toscana <i>Saluto della Direzione</i></p> <p>Dott. Guido Spinelli Responsabile Settore Laboratorio Area Vasta Costa , ARPA Toscana <i>Il Sistema Laboratorio di ARPAT</i></p> <p>Prof. Gianluca Giorgi Presidente Div. di Spettrometria di Massa <i>Saluto di benvenuto e presentazione DSM</i></p>
3:00 p.m.	DSM-SCI “Fabrizio Bruner” Medal to Prof. Antonio Di Corcia
3:15 p.m.	Session 1: Sample prep., pollutants
	Chairperson: Valeria Filippi, Gianluca Giorgi
3:15 p.m. – 3:35 p.m.	<p>OR1. An LC-MS method for the speciation of Cr (III) complexes with polycarboxylic acids occurring in tannery wastewaters</p> <p><i>Sara Boqialli, Iole Maria di Gangi, Paolo Pastore, Valerio di Marco, Denis Badocco, Mirco Zerlottin, Daniele Refosco</i> Department of Chemical Sciences, University of Padua, Padua, Italy</p>
3:35 p.m. – 4:15 p.m.	<p>PL1. Sample preparation for Direct Introduction Mass Spectrometry</p> <p><i>German Augusto Gómez-Ríos, Nathaly Reyes-Garcés, Ezel Boyacı, Emanuela Gionfriddo, Justen Poole, Barbara Bojko, Janusz Pawliszyn</i> Department of Chemistry, University of Waterloo</p>

4:15 p.m. – 4:35 p.m.	<p>OR2. Determination of emerging pollutants in waters by passive sampling and target liquid chromatography-tandem mass spectrometry</p> <p><i><u>Cristiana Mirasole</u>, Marina Di Carro, Barbara Benedetti, Emanuele Magi</i> Department of Chemistry and Industrial Chemistry, University of Genoa, Italy</p>
4:35 p.m. – 4:55 p.m.	<p>OR3. Pharmaceuticals and Personal Care Products (PPCP) analysis in wastewater and sediments: SPE on-line and Quechers approaches</p> <p><i><u>Andrea Gheduzzi</u>, Allen Misa, Augustin Pierri, Syljohn Estil, Eric Nelson</i> Phenomenex, Italy</p>
4:55 p.m. – 5:15 p.m.	<p>OR4. Target and non-target screening for environmental pollutants in water using accurate mass LC-MS/MS</p> <p><i><u>Alessandro Armandi</u>, Stefano Fiorina, Samuele Scurati</i> SCIEX, Milano, Italy</p>
5:15 p.m. – 5:35 p.m.	<p>OR5. Analysis, in compliance with ISO-17025, of Glyphosate and AMPA in superficial waters by FMOC-derivatization and HPLC-HRMS: presentation and results</p> <p><i>Valeria Filippi, Stefano Menichetti, <u>Michele Mazzetti</u></i> ARPAT, Laboratorio di Area Vasta Costa, Livorno, Italy</p>
5:35 p.m.	End of session
5:45 p.m.	Welcome cocktail

Tuesday, September 27

8:30 a.m. – 9:15 a.m.	Registration
	Session 2: Contaminants
	Chairpersons: Michele Mazzetti, Cecilia Bergamini
9:15 a.m. – 9:55 a.m.	<p>PL2. LC-Tandem MS and LC-HRMS strategies for the analysis of contaminants of emerging concern and carbon-based nanomaterials in water, soil and biota samples: exposure and real-world environmental samples</p> <p><i>Damià Barceló, Bozo Zonja, Marianne Köck Schulmeyer, Josep Sanchís, Jaume Aceña, Marinella Farré, Sandra Pérez, Miren Lopez de Alda</i> IDAEA-CSIC, Barcelona, Spain</p>
9:55 a.m.– 10:15 a.m.	<p>OR6. Liquid chromatography mass spectrometry determination of perfluoroalkyl acids in environmental solid extracts after phospholipid removal and on-line turbulent flow chromatography purification</p> <p><i>M. Mazzoni, S. Polesello, M. Rusconi, S. Valsecchi</i> IRSA-CNR, Water Research Institute, Brugherio, Italy</p>
10:15 a.m. – 10:35 a.m.	<p>OR7. UHPLC-MS/MS methods for the evaluation of different classes of compounds in drinking, ground and surface water</p> <p><i>V. Mainini, D.G. Vecchiotti, S. Scotti</i> Shimadzu Italia S.r.l, Milano, Italy</p>
10:35 a.m. – 11:10 a.m.	Coffee break & Poster session

	Session 3: GC-MS, GC-MS/MS
11:10 a.m. – 11:40 a.m.	<p>KN1. GC×GC analysis of IPA in environmental samples</p> <p><i>Luca Calamai</i> University of Florence, Florence, Italy</p>
11:40 a.m. – 12:00 p.m.	<p>OR8. Determination of anilines and quinolines in textiles</p> <p><i>F. Iadaresta, G. Luongo, E. Moccia, C. Östman, C. Crescenzi</i> Department of Environmental Science and Analytical Chemistry, Stockholm University, Stockholm, Sweden</p>
12:00 p.m. – 12:20 p.m.	<p>OR9. Determination of volatile and semi-volatile compounds in water and soil by HS/autoSPME/Fast-GC-MS- GC-MS/MS. Validation and proficiency test</p> <p><i>Rino Calori, Cecilia Bergamini, Maria Ferrari, Manuela Di Giovanni, Maurizio Falchieri, Barbara Romagnoli</i> ARPAE Emilia Romagna, Nodo di Bologna, Italy</p>
12:20 p.m. – 12:40 p.m.	<p>OR10. Analysis of TBT in superficial and sea waters by solid-phase derivatization and GC-MS/MS</p> <p><i>Federica Bellandi, Valeria Filippi, Michele Mazzetti</i> ARPAT, Laboratorio di Area Vasta Costa, Livorno, Italy</p>
12:40 p.m. – 1:00 p.m.	<p>OR11. Determination of polychlorobiphenyl (PCB) in water and soils by HS-SPME-GC-MS/MS</p> <p><i>Cecilia Bergamini, Rino Calori, Maria Ferrari, Manuela Di Giovanni, Barbara Romagnoli, Maurizio Falchieri</i> Arpa Emilia Romagna, Area Chimica Acque e Contaminanti Organici –Bologna, Italy</p>
1:00 p.m. – 2:15 p.m.	Lunch

	Session 4. Environment & food, ion mobility
	Chairperson: Emanuele Magi, Roberta Galarini
2:15 p.m. – 2:55 p.m.	<p>PL3. Environmental quality and food safety: bioindicators of persistent organic pollutants exposure</p> <p><i><u>Giampiero Scortichini</u>, Scortichini, Gianfranco Brambilla, Roberta Ceci, Gianfranco Diletti</i> Istituto Zooprofilattico Sperimentale dell’Umbria e delle Marche, Perugia</p>
2:55 p.m. – 3:25 p.m.	<p>KN2. LC-MS/MS assessment of marine biotoxins contamination in mussels from mid-Adriatic Sea (Italy)</p> <p><i><u>Simone Bacchiocchi</u>, Melania Siracusa, Nicola Spada, Arianna Piersanti, Roberta Orletti</i> Istituto Zooprofilattico Sperimentale dell’Umbria e delle Marche, Ancona, Italy</p>
3:25 p.m. – 3:45 p.m.	<p>OR12. Environmental screening of water samples utilising ion mobility enabled high resolution mass spectrometry</p> <p><i><u>Simona Scarpella</u>, Eimear McCall, Lauren Mullin, Gareth Cleland, Adam Ladak</i> Waters, Milano, Italy</p>
3:45 p.m. – 4:05 p.m.	<p>OR13. Direct determination of mercury in sea waters by ICP-MS using argon gas dilution</p> <p><i><u>Elisa Di Alessandro</u>, Franco Castellani</i> ARPAT, Laboratorio di Area Vasta Costa, Livorno, Italy</p>
4:05 p.m. – 4:40 p.m.	Coffee break & poster session

	Session 5. IC-HRMS & MS methods
4:40 p.m. – 5:00 p.m.	<p>OR14. Glyphosate and other polar pesticides analysis in direct injection by ion chromatography coupled to high resolution mass spectrometry (IC-HRMS)</p> <p><i>Luca Gerardo</i> ThermoFisher Scientific S.p.A. Rodano (MI), Italy</p>
5:00 p.m. – 5:20 p.m.	<p>OR15. Resolving mixtures of isobaric compounds using energy resolved MS/MS experiments and the LEDA post-processing algorithm tool</p> <p><i>Marta Menicatti, Luca Guandalini, Silvia Dei, Elisa Floriddia, Elisabetta Teodori, Pietro Traldi, <u>Gianluca Bartolucci</u></i> NEUROFARBA, Università di Firenze, Sesto Fiorentino (FI), Italy</p>
5:20 p.m.	End of session
6:00 p.m.	Tour dei Fossi in Battello
8:00 p.m.	Social dinner

Wednesday, September 28

Session 6: Sea and air	
	Chairperson: Gianluca Bartolucci
9:15 a.m. – 9:35 a.m.	<p>OR16. Persistent organic pollutants (POPs) at Ross Sea (Antarctica) and through Circumpolar Deep Water</p> <p><i>R. Fuoco, S. Giannarelli, S. Francesconi, C. Tiribilli</i> Department of Chemistry and Industrial Chemistry, University of Pisa, Italy</p>
9:35 a.m. – 9:55 a.m	<p>OR17. New isotopic approach to detect different nitrogen input in coastal marine areas</p> <p><i>Pasquale Carlino, Edoardo Calizza, Giulio Careddu, Maria Letizia Costantini, Loreto Rossi</i> Elementar Italia, Lomazzo (CO), Italy</p>
9:55 a.m. – 10:15 a.m	<p>OR18. Cromo esavalente nell'aria della conca ternana: uno studio preliminare</p> <p><i>M. Galletti, S. Castellini, A. Mattioli, E. Peirone</i> ARPA Umbria, Terni, Italy</p>
10:15 a.m. – 10:35 a.m	<p>OR19. Polyaniline (PANI): an innovative sampling support for VOCs in air matrices. a comparison between PANI and carbon active performances by GC-MS approach</p> <p><i>Maria Antonietta De Gregorio, Ermelinda Falletta, Cristina Della Pina, Laura Clerici</i> Dipartimento di Chimica, Università degli Studi di Milano, Milano, Italy</p>
10:35 a.m. – 11:30 a.m.	Round table: MS & environment: next steps??
11:30 a.m.	Closing remarks!
11:40 a.m.	Arrivederci cocktail !!

POSTER COMMUNICATIONS

- P1 **EMISSIONI ODORIGENE DIFFUSE: DETERMINAZIONE DI SOLFURO DI IDROGENO NEI RADIELLO MEDIANTE PLASMA ACCOPPIATO INDUTTIVAMENTE –SPETTROMETRIA DI MASSA**
Nunzia Diaferia, Francesco Natali, Donatella Chionna, Serafina Cotrone, Filippo Sturdà, Antonella Romano, Roberto Bucci
ARPA Puglia, Unità Operativa Chimica delle Acque, Dipartimento di Lecce, 73100 Lecce, Italy
- P2 **POLYDOPAMINE COATED MAGNETIC NANOPARTICLES FOR THE EXTRACTION OF ESTROGENIC COMPOUNDS IN WATER BY LIQUID CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY**
Giorgia La Barbera, Francesca Ferraris, Riccardo Zenezini Chiozzi, Roberto Samperi, Aldo Laganà
Dipartimento di Chimica, Università di Roma “La Sapienza”, Roma, Italy
- P3 **OPTIMIZATION OF AN ANALYTICAL METHOD TO IDENTIFY DIURON AND ISOPROTURON IN SEA SEDIMENTS BY HPLC-MSMS**
Donatella Chionna, Antonio Pennetta, Daniela Fico, Giuseppe E. De Benedetto, Nunzia Diaferia, Romina Ramingo, Filippo Sturdà, Antonella Romano, Roberto Bucci
ARPA Puglia, Unità Operativa Chimica delle Acque, Dipartimento di Lecce, 73100 Lecce, Italy