2ND INTERNATIONAL CONFERENCE ON

IONIZATION PRINCIPLES IN ORGANIC AND INORGANIC MASS SPECTROMETRY

MENORCA, SPAIN

OCTOBER 16-18, 2017

MASS SPECTROMETRY IS, ARGUABLY THE MOST IMPORTANT ANALYTICAL SPECTROMETRIC TOOL OF MODERN TIMES AND THE ORGANIC AND INORGANIC MASS SPECTROMETRY COMMUNITIES ARE PROBABLY THE LARGEST GROUP OF SCIENTISTS WORKING AROUND A SINGLE TOOL. FOR BOTH COMMUNITIES MASS SPECTROMETRY CONCERNS ION CHEMISTRY AND PHYSICS WITH AN EMPHASIS ON SCIENTIFIC INSTRUMENTATION FOR MASS SEPARATION. THIS CONFERENCE IS MEANT TO PROVIDE AN INTERNATIONAL FORUM BY WHICH ORGANIC AND INORGANIC MASS SPECTROMETRY RESEARCHERS AND USERS HAVE THE OPPORTUNITY TO SHARE THEIR KNOWLEDGE AND EXCHANGE IDEAS ON IONIZATION PRINCIPLES IN PARTICULAR.

CONFERENCE CHAIR: **MARÍA MONTES BAYÓN**, UNIVERSITY OF OVIEDO, SPAIN

FOR PROGRAM UPDATES, ABSTRACT SUBMISSION, ON-LINE REGISTRATION, INFORMATION ON EXHIBITING AND SPONSORING, PLEASE VISIT THE CONFERENCE WEB SITE AT

WWW.IPOIMS.COM

CONFERENCE SECRETARIAT

PHONE: +47 99 51 05 21 OR +47 23 19 53 53

E-MAIL: YNGVAR.THOMASSEN@STAMI.NO OR BALAZS.BERLINGER@STAMI.NO

Monday, 16th October 2017

15:30	**Short course I**
	SC 1: Jacob T. Shelley, Carsten Engelhard *"The Chemical Analysis of Things As They Are": Direct Analyses with Ambient Mass Spectrometry*
18.00	**Welcome**
	Maria Montes-Bayón, Yngvar Thomassen
18:15	**Invited lecture I**
	IL 1: Facundo M. Fernández *Triboelectric Nanogenerators for Sensitive Nano-Coulomb Molecular Mass Spectrometry*
19:00	**Welcome drink**

Tuesday, 17th October 2017

09:30	**Invited lecture II**
	IL 2: José Miguel Vadillo *Analytical Microprobes: Getting More out of Less*
10.15	OP 1: Timo Schwieters
	Spatially Resolved Elemental Deposition on Aged Lithium Ion Battery Graphite Electrodes by means of LA-ICP-MS
10:35	OP 2: Rocio Muñiz
	New Quantification Strategies for Depth Profile Analysis via Pulsed Glow Discharge - Time of Flight Mass Spectrometry
10:55	FP 1: Yves Preibisch
	Investigation of Environmental Friendly Binder Materials for Li Ion Batteries by Means of Pyrolysis-GC/EI-MS
11:10	Discussion
11:25	Coffee break
11:55	**Short Course II**
	SC 2: Steven J. Ray, Jaime Orejas *Matrix-assisted Laser Desorption Ionization: Fundamentals and Applications*
13:30	Lunch break
16:00	**Invited lecture III**
	IL 3: Beatriz Fernández *Spatially Resolved Analysis of Solid Samples Using Plasma-based Mass Spectrometry Techniques: Glow Discharge and Laser Ablation*
16:45	OP 3: Britta Vortmann-Westhoven
	Where is the Lithium? Quantitative Determination of the Lithium Distribution in Lithium Ion Battery Cells by Inductively Coupled Plasma Techniques
17:05	OP 4: Evgeny Nikolaev
	Direct spray ionization from tissue with application to neurosurgery
17:25	OP 5: Markus Börner
	Analysis of Active Material Degradation in Lithium Ion Batteries by Means of Time-of-Flight Secondary Mass Spectrometry
17:45	FP 2: Silvia Candás Zapico
	Analysis of TiO_2 Particles in Consumer Products by Triple Quadrupole-ICP-MS
18:00	OP 6: Carsten Engelhard
	Analysis of Nanomaterials Using CE-spICPMS with Microsecond Dwell Times
18:20	Discussion

Wednesday, 18th October 2017

09:30	**Invited lecture IV**
	IL 4: Jacob T. Shelley *Formation of Atomic, Molecular, and Biomolecular Ions From an Atmospheric-Pressure Plasma Source*
10.15	OP 7: Fabian Horsthemke
	Characterization of Phosphazene Additives and their Decomposition Products in Lithium Ion Battery Electrolytes by GC-Orbitrap-MS with different Ionizations
10:35	OP 8: Jaime Orejas
	Negative Ionization Mode in FAPA-MS
10:55	FP 3: Roberto Álvarez-Fernández García
	The Use of Single Cell (SC)-ICP-MS to Evaluate Metal Incorporation into Yeast and Human Cancer Cells
11:10	Discussion
11:15	Coffee break
11:45	OP 9: Sascha Nowak
	Speciation of Organo(Fluorophosphates) in Lithium Ion Battery Electrolytes by Simultaneous 2D Ion Chromatography with Electrospray Ionization and Inductively Coupled Plasma Mass Spectrometry
12:05	OP 10: Jens Riedel
	Airborne Laser Spark Ionization
12:25	OP 11: Yannick P. Stenzel
	Speciation of Organophosphorus Aging Products in Lithium Ion Battery Electrolytes via Dry Plasma GC-ICP-SF-MS
12:45	FP 4: Marcel Diehl
	Direct Solid Analysis of Carbonaceous Electrodes Using ^{6}Li Enriched Non Aqueous Electrolytes in Lithium Ion Batteries by GD-SF-MS
13:00	FP 5: Daniel Turiel Fernández
	Study of the Use of Biocompatible Nanostructures to Improve Cisplatin Transport in Cell Models: Ferritin as Nanocage
13:15	Discussion
13:30	Lunch break
16:00	**Invited lecture V**
	IL 5: Roman Zubarev *Meta-Ionization of Polypeptide Polycations in the Gas Phase by >10 eV Electrons*
16:45	OP 12: Steven J. Ray
	Microwave-assisted Electrospray Ionization (μAESI)
17:05	OP 13: Helmut Ernstberger
	The Heart of ICP: Innovation in Plasma Load Coil Technologies for ICP-OES and ICP-MS
17:25	OP 14: Jonas Henschel
	HPLC-MS^{n} Investigation of Lithium Ion Battery Electrolyte-related Aging Products
17:45	OP 15: Marco Evertz
	Investigation of Lithium Losses in Lithium Ion Battery Electrodes by Means of Plasma-based Techniques
18:05	Discussion
18:20	**Final remarks**
	M. Montes-Bayón, Y. Thomassen
20:30	**Conference dinner**