



University of Cyprus
Electromagnetics and Novel
Applications Lab



Universidad de Jaén

timpani

Plasma science and applications workshop

April 27-28, 2021

Hosted online by UCY

Organized by the University of Cyprus (UCY), Leibniz-Institut für Analytische Wissenschaften-ISAS-e.V, Germany (ISAS) and University of Jaén (UJA), Spain.

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DAY 1, APRIL 27

DAY 2, APRIL 28

Agenda (Central European Time Zone)

Tuesday, April 27, 2021	
10:15- 10:30	Welcome and overview of the workshop and of the TImPANI project <i>Dr Charalambos Anastasiou, University of Cyprus</i>
10:30- 11:30	Ion chemistry in hydrocarbon containing DBD plasmas used for synthesis of interstellar dust analogues <i>Prof. Ionut Topala, Alexandru Ioan Cuza University of Iasi, Romania</i>
11:30- 12:30	Numerical methods for atmospheric pressure plasma discharge and surface interaction <i>Dr Constantinos Lazarou, University of Cyprus</i>
12:30 - 13:00	<i>BREAK</i>
13:00- 14:00	Optical emission spectroscopy in dense plasmas - application to nanoparticles synthesis in liquids <i>Dr Thierry Belmonte, Université de Lorraine, CNRS, IJL, France</i>
14:00- 15:00	Surface analysis by plasma assisted mass spectrometry <i>Dr Joao Santos Sousa, LPGP, CNRS & Univerity Paris-Saclay, France</i>
15:00- 16:00	Surprises in Mass Spectrometric Applications of Dielectric Barrier Discharge Ionization <i>Prof. Renato Zenobi, ETH, Switzerland</i>
16:00- 17:00	Some recent progress in plasma medicine: plasma adaptation and plasma action mechanism <i>Prof. Michael Keidar, George Washington University, USA</i>
17:00- 17:30	Open discussion and closing of the workshop <i>Moderated by Dr Charalambos Anastasiou, University of Cyprus</i>
Wednesday, April 28, 2021	
09:00- 09:05	Welcome and overview of the second day of the workshop and of the TImPANI project <i>Dr Charalambos Anastasiou, University of Cyprus</i>
09:05- 10:00	Nanosecond pulsed dielectric barrier discharge ionization mass spectrometry <i>Prof. Alexander Donald, ARC Future Fellow, UNSW Sydney, Australia</i>
10:00- 11:00	The ESI mechanism - A never ending story - a molecular view on analyte charge states <i>Prof. Thorsten Benter, Bergische Universität Wuppertal, Germany</i>
11:00- 12:00	Analysis of (phospho-) lipids by hyphenated mass spectrometric techniques <i>Prof. Heiko Hayen, University of Muenster, Germany</i>
12:00- 12:30	Controlled atmosphere flexible microtube plasma soft ionization source: a promising tool for the determination of small molecules by GC-MS <i>Dr David Moreno-Gonzalez, University of Jaen, Spain</i>
12:30- 13:00	Neutral lipid analysis by liquid chromatography dielectric barrier discharge mass spectrometry

	<i>Dr Marcos Bouza Areces, University of Jaen, Spain</i>
13:00-14:30	<i>BREAK</i>
14:30-15:30	3D-printing of a complete modular ion mobility spectrometer – Design transformation, evaluation and prospective chances <i>Sebastian Brandt, Leibniz-Institute for Analytical Sciences – ISAS – eV, Germany</i>
15:30-16:30	3D-printing in ion mobility and mass spectrometry <i>Prof. Robert Winkler, CINVESTAV Unidad Irapuato, Mexico</i>
16:30-17:30	Advanced diagnostics for plasmas for environmental and medical applications <i>Prof. Stephan Reuter, Polytechnique Montreal, Canada</i>

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[DAY 1, APRIL 27](#)

[DAY 2, APRIL 28](#)

Contact:

For any questions on the workshop and for certificates of participation please contact:

Dr Charalambos Anastassiou (University of Cyprus) : canast11@ucy.ac.cy

For more information about the project please visit: www.timpani.eu.

Acknowledgement:



The Timpani project has received funding from the European Union's Horizon 2020 research and innovation programme under agreement No. 810686