

Ion Mobility Spectrometry and Mass Spectrometry

PLACE: Conference Room. Analytical Chemistry Department. Marie Curie Building. Rabanales Campus. University of Cordoba (Spain)

DIRECTOR: Lourdes Arce Jiménez

DATES: April 4-15, 2011

OBJECTIVES:

- Introduce a new, state-of-the-art technique (Ion Mobility Spectrometry) with great potential to resolve analytical problems that cannot be resolved with other technologies.
- Present the main features of portable equipments for chemical analysis.
- Examine the advantages and characteristics of Ion Mobility equipment coupled with Mass Spectrometers.

REGISTRATION: To register please send a CV to lourdes.arce@uco.es

DEADLINE : 25th February 2011.

AIMED AT: Graduates in Sciences (Chemistry, Biology, Environmental Sciences) and Food Science and Technology as well as Chemical, Agricultural or Forest Engineers.

NOTIFICATION OF ADMITTANCE: Before February 28, 2011.

REGISTRATION FEE: 100 € (applicants who have been admitted to the course must register at the Registrar's Office of the University where the course will be given).

SPRING AND SUMMER COURSES *ceiA3*

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4-15 April 2011

	Monday 4th	Tuesday 5th	Wednesday 6th	Thursday 7th	Friday 8th
10:00-11:30	Lourdes Arce¹	Paul Thomas²	Paul Thomas	Santiago Marco³	Santiago Marco
<i>11:30-12:00</i>	<i>Break</i>	<i>Break</i>	<i>Break</i>	<i>Break</i>	<i>Break</i>
12:00-13:30	Lourdes Arce	Paul Thomas	Paul Thomas	Santiago Marco	Santiago Marco
<i>13:30-15:00</i>	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>
15:00-17:00	Lourdes Arce	Paul Thomas	Paul Thomas	Santiago Marco	Santiago Marco

¹University of Córdoba, ²University of Loughborough, ³University of Barcelona

	Monday 11th	Tuesday 12th	Wednesday 13th	Thursday 14th	Friday 15th
10:00-11:30	Silvia López¹	Wolfgang Vautz³	Wolfgang Vautz	Bartolome Simonet⁴	Bartolome Simonet
<i>11:30-12:00</i>	<i>Break</i>	<i>Break</i>	<i>Break</i>	<i>Break</i>	<i>Break</i>
12:00-13:30	Silvia López	Wolfgang Vautz	Wolfgang Vautz	Bartolome Simonet	Bartolome Simonet
<i>13:30-15:00</i>	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>
15:00-17:00	Lourdes Arce²	Wolfgang Vautz	Wolfgang Vautz	Bartolome Simonet	Lourdes Arce

¹RAMEM (Madrid), ²University of Córdoba, ³ISAS (Dortmund), ⁴University of Córdoba

<p>Dr. Lourdes Arce Introduction to Ion Mobility Spectrometry Sample introduction systems State of the art of the technique Food applications Practical sessions</p>	<p>Dr. Bartolomé Simonet Fundamental aspect of Mass Spectrometry Qualitative and quantitative information from MS spectra Types of Mass Spectrometry Coupling IMS-MS Food applications of IMS-MS</p>
<p>Dr. Paul Thomas Basic components of Ion Mobility Spectrometer Mobility of ions in the gas phase Types of ion mobility instruments GC-IMS Applications</p>	<p>Dr. Santiago Marco Spectra pre-processing Dimensionality reduction techniques Easy classification techniques Multivariate Linear Calibration Validation techniques</p>
<p>Dr. Wolfgang Vautz Parameters affecting IMS signal Interpretation of spectra Qualitative and quantitative analysis Applications</p>	<p>Dr. Silvia López Introduction to Differential Mobility Analyzer Determination of aerosol sizes DMA as a special type of IMS</p>