

Schedule for the Mass Spectrometry Summer School in Jyväskylä, 17th - 21st of August 2009

Mon, 08/17/09		Tue, 08/18/09	Wed, 08/19/09	Thu, 08/20/09	Fri, 08/21/09
9:00-10:00		Tandem Mass Spectrometry How to Investigate the Chemistry in the Gas Phase	Solvent Effects II Gas-Phase Acidities and Gas-Phase Nucleophilicities	ESI/MALDI Demo on the instruments available in Jyväskylä	8:30 - 10:15 Gas-Phase Reactivity III Kurronen: H/D-Exchange Reactions in the Gas Phase <i>Case Study 9: Crown Ethers on the Spacewalk</i>
10:00-11:00		Solvent Effects I How Non-Covalent Bonds Change Upon Transition into the Gas Phase	Gas-Phase Thermochemistry Best-Fit Model for Crown Ether/Alkali Binding		
		<i>Lunch Break</i>			<i>Coffee Break</i>
12:00-13:00	Introduction The Mass Spectrometer as a Laboratory	Structure by MS I Ollikka: Peptide Sequencing <i>Case Study 1: An Example for Peptide Sequencing</i>	Structure by MS III Sieväinen: Ion Mobility MS Giri: Chiral Recognition <i>Case Study 5: The Serine Octamer - A Magic-Number Cluster</i>	Gas-Phase Reactivity I Kemppainen: Dendrimers - Ionization Artifacts and Defects <i>Case Study 7: Backfolding in Dendrimer-Tweezer Complexes</i>	10:45 - 12:30 Thermochemistry Tuokko: Blackbody Infrared Radiative Dissociation <i>Case Study 10: Is Watson-Crick Base Pairing Conserved in the Gas Phase?</i>
13:00-13:45	Methodology I Soft Ionization Methods	<i>Case Study 2: IRMPD&ECD for Peptide Sequencing</i>			
		<i>Coffee Break</i>			
14:15-15:00	Methodology II Mass Analyzers	Structure by MS II Raatikainen: Hydrogen-Bonded Capsules <i>Case Study 3: PG Hexamers</i>	Solution-Phase Reactivity Monitored by MS Podobin: Ligand Exchange Reactions on Helicates <i>Case Study 6: Seeing Self-Assembly and Self-Sorting at Work</i>	Gas-Phase Reactivity II Hulkko: Metallo-Supramolecular Squares <i>Case Study 8: A Cage Contraction in the Gas Phase</i>	
15:00-16:00		Helttunen: How to Distinguish Topologies? <i>Case Study 4: Catenanes</i>			