

## The 10<sup>th</sup> Uppsala Conference on ECD/ETD and Related Topics, 2013, Beijing

### Schedules for the Pre- and Post-conference Training Sessions

<b>Sat. 2/16/2013, taught in Chinese, all slides in English</b>	<b>7:30</b>	<b>Registration—the pre-conference training session</b>
	<b>8:30-10:00</b>	<b>1. History of mass spectrometry (Meng-Qiu Dong, NIBS, Beijing)</b>
		coffee break, 15 min
	<b>10:15-11:45</b>	<b>2. Ionization techniques—ESI, EI, and CI (Yu Xia, Purdue University)</b>
		lunch break, 75 min
	<b>13:00-14:30</b>	<b>3. Quadruple ion trap (Meng-Qiu Dong, NIBS, Beijing)</b>
		coffee break, 15 min
	<b>14:45-16:15</b>	<b>4. Tandem MS techniques (collision, photon, radical/electron induced dissociation) (Cheng Lin, Boston University)</b>
		tea break, 15 min
	<b>16:30-18:00</b>	<b>5. Introduction to FTMS (Shenheng Guan, UCSF)</b>
		dinner, 75 min
	<b>19:15-20:00</b>	<b>6. Introduction to infrared photodissociation spectroscopy (Ling Jiang, DICP, Dalian)</b>
	<b>20:00-20:45</b>	<b>7. Questions and answers (all the teachers of the day)</b>
<b>Sun. 2/17/2013, English (except for lecture 13, in English and Chinese)</b>	<b>8:30-9:25</b>	<b>8. Fundamental aspects of ECD/ETD (Frank Turecek, University of Washington)</b>
	<b>9:25-10:25</b>	<b>9. Ion trap technology (John Syka, Thermofisher Scientific)</b>
		coffee break, 15 min
	<b>10:40-12:10</b>	<b>10. Principles of FT-ICR (Jon Amster, University of Georgia)</b>
		lunch break, 80 min
	<b>13:30-15:00</b>	<b>11. Orbitrap and Orbitrap-ETD (John Syka, Thermofisher Scientific)</b>
		coffee break, 15 min
	<b>15:15-16:15</b>	<b>12. ECD and ETD instrumentation (Yury Tsybin, Ecole polytechnique fédérale de Lausanne)</b>
		tea break, 15 min
	<b>16:30-18:00</b>	<b>13. Top-down proteomics (Ying Ge, University of Wisconsin-Madison)</b>
		dinner, 75 min
	<b>19:15-20:00</b>	<b>14. History of ECD/ETD and the Uppsala Conference (Roman Zubarev, Karolinska Institutet)</b>
	<b>20:00-20:45</b>	<b>15. Questions and answers (all the teachers of the day)</b>

<b>Thu. 2/21/2013, English</b>	<b>7:30</b>	<b>Registration—the post-conference training session</b>
	<b>8:30-12:00</b>	<b>ETD mass spectral interpretation (Don Hunt, University of Virginia)</b>
	<b>13:30-17:30</b>	<b>Hands-on training on ETD instruments (Ralf Hartmer, Bruker Daltonics)*</b>
		* Students will be divided into 2 groups. When one is on the instrument, the other practices ETD spectra interpretation (TA: Rui-Xiang and Meng-Qiu); then switch.
<b>Fri. 2/22/2013, English</b>	<b>8:30-11:30</b>	<b>Going over the homework for ETD mass spectral interpretation (Don Hunt, University of Virginia)</b>

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Date	Time	Title	Speaker	Affiliation
<b>Sun. 2/17 PM</b>	4:00-9:00	Registration		
	6:00-7:30	dinner		
	7:15-8:00	History of ECD/ETD and the Uppsala Conference	Roman Zubarev	Karolinska Institutet, Sweden
<b>Mon. 2/18 AM</b>	08:50-09:00	Welcome remarks	Meng-Qiu Dong & Rui-Xiang Sun	NIBS, Beijing & ICT, CAS
	09:00-09:30	Functional Groups Disrupting Backbone Dissociations in ExD	Frantisek Turecek	Univ. of Washington, USA
	09:30-10:00	Hydrogen-abundant and Hydrogen-deficient Peptide Radical Ions: How to Create the Former and Get Rid of the Latter	Roman Zubarev	Karolinska Institutet, Sweden
	10:00-10:20	coffee break		
	10:20-10:50	Applications of Front End Electron Transfer Dissociation (FETD) and PTR (Proton Transfer Reaction)/FETD on Orbitrap Instruments: Innovative Technology for the Identification of Post-Translational Modifications	Donald Hunt	Univ. of Virginia, USA
	10:50-11:20	Increased ETD-fragmentation Efficiency by Charge Enhancement in a Captive Spray Source	Ralf Hartmer	Bruker Daltonics
	11:20-11:50	Putting ECD Up Front: Atmospheric Pressure Electron Capture Dissociation	Davin Carter	Univ. of British Columbia, Canada
	12:00-1:30	lunch		
	1:30-2:15	Thermo user meeting	TBA	
	2:30-3:00	To be announced	John Syka	Thermo Fisher Scientific
<b>Mon. 2/18 PM</b>	3:00-3:30	Method Development for Improving ECD/ETD-based Proteomics	Yury Tsybin	EPFL, Switzerland
	3:30-3:50	coffee break		
	3:50-4:20	New Methods of Ionization in Mass Spectrometry and their Application to Proteins	Ellen Inutan	Wayne State University, USA
	4:20-4:50	Intra-Molecular Reactions Reveal New Reactivity of Peptide Sulfinyl Radical Ions	Yu Xia	Purdue Univeristy, USA
	4:50-5:20	Biradical Click Reagents for Localizing Noncovalent Attachment Sites in the Gas Phase	Ryan Julian	Univ. of California, Riverside, USA
	5:20-5:50	Radically different #1—the tea culture	Dan Tan	NIBS, Beijing
	6:00-7:30	dinner		
	7:00-9:00	poster session		

<b>Tue. 2/19 AM</b>	09:00-09:30	Top-Down Analysis of Proteins Involved in Bacterial Virulence	Julia Chamot-Rooke	Institut Pasteur, France
	09:30-10:00	Top-down Electron Capture Dissociation Mass Spectrometry for Deep Sequencing of Phosphoproteins	Ying Ge	Univ. of Wisconsin-Madison, USA
	10:00-10:20	coffee break		
	10:20-10:50	Electron Capture Dissociation and Top-down Mass Spectrometry of Protein Complexes	Jiang Zhang	Univ. of California, Los Angeles, USA
	10:50-11:20	A Novel Quantitation Strategy for Bottom-Up, Middle-Down, and Top-Down Analysis of Histones	Christopher Rose	Univ. of Wisconsin-Madison, USA
	11:20-11:50	Electron Transfer Dissociation of Intact Proteins: Go beyond c and z Ions	Zhixin Tian	Dalian Institute of Chemical Physics, CAS
<b>Tue. 2/19 PM</b>	12:00-1:30	lunch		
		time off in the afternoon		
	6:00-7:30	dinner		
	7:00-7:50	Radically different #2—about the Chinese characters (even the native Chinese may be surprised)	Yuyu Zeng	Peking University
	8:00-9:00	Fun in the gas phase: quiz and prize (time to shine if you have paid attention to the literature and the training session)		
<b>Wed. 2/20 AM</b>	09:00-09:30	Electron Detachment versus Collisional Activation – What Works Best for the Dissociation of Glycan Polyanions?	I. Jonathan Amster	Univ. of Georgia, USA
	09:30-10:00	Electron Activated Dissociation (ExD): New Tools for Glycomics	Cheng Lin	Boston University, USA
	10:00-10:20	coffee break		
	10:20-10:50	Biomimetic Reagents for Free Radical and Acid-Base Chemistry of Glycans: Application to Glycan Structure Determination by Mass Spectrometry	Jesse L. Beauchamp	California Institute of Technology, USA
	10:50-11:20	Trivalent Metal-assisted ECD and ETD of Carbohydrates and Peptides	Kristina Hakansson	Univ. of Michigan, USA
	11:20-11:50	Infrared Photodissociation Spectroscopy of the Ions with Catalytic and Biological Relevance	Ling Jiang	Dalian Institute of Chemical Physics, CAS
<b>Wed. 2/20 PM</b>	12:00-1:30	lunch		
	2:00-2:30	Modulating HSO versus CH <sub>2</sub> SO Loss in Arginine Containing Sulfinyl Dipeptide Radical Cations	Lei Tan	Purdue University, USA
	2:30-3:00	Discriminating Peptide Epimers by Radical Directed Dissociation LC-MS	Yuanqi Tao	Univ. of California, Riverside, USA
	3:00-4:00	panel discussion over coffee		