

# ECCL 2010 Meeting

Sterdyn, Poland  
23<sup>rd</sup> - 27<sup>th</sup> August 2010

## Programme

### Monday 23rd August 2010

*Arrival*

16:00 *Registration*

20:30 *Welcome reception*

### Tuesday 24th August 2010

Session 1 Chair:

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09:00 - 09:15	Opening remarks	
09:15 - 09:55	Control of chemical synthesis by electron impact ionization	Petra Swiderek (Universitat Bremen, Germany)
09:55 - 10:20	Selective fragmentation of bifunctional organic compounds induced by low energy electrons	Anne Lafosse (Universite Paris-Sud, France)
10:20 - 10:45	Electron induced chemistry in ice mantles - applications to astrochemistry and lithography	Nigel Mason (The Open University, United Kingdom)
10:45 - 11:20	<i>Coffee break</i>	

Session 2 Chair:

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11:20 - 11:45	Halo-uracils negative ions formation in atom-molecule collisions	Paulo Limao-Vieira (Universidade Nova de Lisboa, Portugal)
11:45 - 12:10	In vitro labelling of SSBs in plasmid DNA	Malgorzata Smialek-Telega (Gdansk University of Technology, Poland)
12:10 - 12:35	Control of 2D nanostructures formed by self-assembly of guanine derivatives	Ilko Bald (Aarhus University, Denmark)
12:35 - 14:00	<i>Lunch Break</i>	

Session 3 Chair:

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14:00 - 14:40	Dissociation cross sections for electron scattering on CF <sub>4</sub>	Grzegorz Karwasz (N. Copernicus University, Poland)
14:40 - 15:05	Electron transport through molecular junctions with anharmonic vibrations	Martin Cizek (Charles University in Prague, Czech Republic)
15:05 - 15:30	Charge transfer processes at metal/organic interfaces	Isabel Fernandez-Torrente (Freie Universitat Berlin, Berlin)
15:30 - 15:50	HF, the ATP of DEA	Benedikt Ómarsson (University of Iceland, Iceland)
15:50 - 16:20	<i>Coffee break</i>	

Session 4

16:20 - 17:20	Tutorial: Helium nanodroplets: techniques, applications and opportunities	Andrew Ellis
16:20 - 17:20	MC Meeting	
18:00 - 19:30	<i>Dinner</i>	
20:00 - 21:30	Poster Session	

Wednesday 25th August 2010

Session 5 Chair:

09:00 - 09:40	Bond-selective molecular manipulation via thermally activated electron attachment	Richard Palmer (University of Birmingham, UK)
09:40 - 10:05	First-principles modelling of scanning tunnelling microscopy using non-equilibrium Green's functions	Haiping Lin (University of Liverpool, UK)
10:05 - 10:30	Preparing and influencing a thermally driven molecular bi-stable switch by STM atomic manipulation	Sumet Sakulsermsuk (University of Birmingham, UK)
10:30 - 10:50	Spatial-temporal evolution of STM – triggered reaction fronts	Michaela Hager (University of Innsbruck, Austria)
10:50 - 11:20	<i>Coffee break</i>	

Session 6 Chair:

11:20 - 11:45	Electron-driven molecular switching at surfaces	Peter Saalfrank (University of Potsdam, Germany)
11:45 - 12:10	Switching with Molecules at Surfaces	Thomas Jung (Paul Scherrer Institute, Switzerland)
12:10 - 12:35	Selective molecule depletion as concept to control the Cobalt:Carbon ratio in planar electron-impact deposits obtained from $\text{Co}_2(\text{CO})_8$ in high-vacuum conditions	Ivo Utke (Empa - Materials Science & Technology, Switzerland)
12:35 - 12:55	Photoisomerization of a azobenzene derivative in direct contact with Cu(111)	Maciej Bazarnik (Poznan University of Technology, Poland)
12:55 - 13:15	Low energy electron interactions with nitro derivatives of benzene	Jolanta Wnorowska (University of Podlasie, Poland)
13:15 - 14:30	<i>Lunch Break</i>	
15:00 -	<i>Conference Excursion to Ciechanowicz</i>	
19:00 -	<i>Dinner</i>	

Thursday 26th August 2010

Session 7 Chair:

09:00 - 09:40	Fabrication and Imaging of Chemical Nanostructures with Electron and Helium Ion Beams	Armin Gölzhäuser (University of Bielefeld, Germany)
09:40 - 10:05	Ultrafast molecular reaction dynamics at metal clusters on magnesium oxide	Thorsten Bernhardt (University of Ulm, Germany)
10:05 - 10:30	Photon and low energy electron physics with complex nano- and pico-sized systems	Bratislav Marinkovic (University of Belgrade, Serbia)
10:30 - 10:55	DEA to derivatives of silane	Stefan Matejcik (Comenius University, Slovakia)
10:55 - 11:30	<i>Coffee break</i>	

Session 8 Chair:

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11:30 - 11:55	Nanografting with functionalized alkanethiols: Friction and stacking	Sylwia Speller (Radboud U Nijmegen / IMM, NL)
11:55 - 12:20	Field Emission Resonances on periodically rippled graphene	Amadeo Vazquez de Parga (Universidad Autonoma de Madrid, Spain)
12:20 - 12:40	Metal atoms, clusters, and monolayers on graphite (0001): Density functional simulations and STM measurements	Jaakko Akola (University of Jyväskylä, Finland)
12:40 - 13:00	VUV photoabsorption study of TiO <sub>2</sub> thin films deposited by DC reactive magnetron sputtering	Susana Serio (FCT/UNL, Portugal)
13:00 - 14:30	<i>Lunch Break</i>	

Session 9 Chair:

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14:30 - 15:00	Industrial applications of electron beam induced chemistry	Klaus Edinger (Carl Zeiss-NaWoTec, Germany)
15:00 - 15:25	Ultracold ion and electron beams for ECCL	Daniel Comparat (CNRS, France)
15:25 - 15:50	Ion formation in doped helium droplets	Harald Schöbel (University of Innsbruck, Austria)
15:50 - 16:20	<i>Coffee break</i>	

Session 10 Chair:

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16:20 - 16:45	Advanced Modelling of He Droplets	Andreas Mauracher (Uppsala University, Sweden)
16:45 - 17:10	EBID-growth on ultra-thin foils: experiments and simulations	Cornelis W. Hagen (Delft University of Technology, Netherlands)
17:10 - 17:30	Tracking down EBID broadening – Interaction of low energy electrons and cobalt tricarbonyl nitrosyl	Sarah Engmann (University of Iceland, Iceland)
	Final remarks	
19:30 -	<i>Conference Dinner</i>	

Friday 27th August 2010

09:00      *Departure*