

# Program

## Sunday 9. June

- 15:00 – 19:30 Registration  
18:00 – 18:30 Wellcome drink  
18:30 – 19:30 **Petr Slavíček** Introductory lecture

## Monday 10. June

- 8:45 – 9:00 Opening Remarks
- 9:00 – 13:00 Dynamics, Scattering, Photodissociation**  
Chair: Piergiorgio Casavecchia
- 9:00 – 9:40 **David Chandler** Scattering of highly excited molecules
- 9:40 – 10:20 **Hanna Reisler** Imaging bond breaking and vibrational energy transfer in small water containing clusters
- 10:20 – 10:45 **Rico Otto** Dissociative Photodetachment of F-(H<sub>2</sub>O): Accessing the Transition State of the F + H<sub>2</sub>O → FH + OH benchmark reaction
- 10:45 – 11:20 coffee break**  
Chair: Kenji Honma
- 11:20 – 12:00 **Shih Huang Lee** Investigation of crossed-beam reactions of 3P carbon atoms with ethylene and its derivatives using synchrotron VUV ionization
- 12:00 – 12:25 **Sébastien Le Picard** The F + H<sub>2</sub> reaction at low temperature
- 12:25 – 12:50 **Andrei Sanov** Photoelectron angular distributions in anion photodetachment from mixed-character states
- 13:00 – 15:00 Lunch
- 15:00 – 18:25 Femtosecond Dynamics, Strong Fields**  
Chair: Elizabeth McCormack
- 15:00 – 15:40 **Luis Banares** Strong laser field control of photodissociation dynamics
- 15:40 – 16:20 **Albert Stolow** Molecular Beam PEPICO Studies of Strong Field Attosecond Processes in Molecules

- 16:20 – 16:55 coffee break
- Chair: Robert Continetti
- 16:55 – 17:35 **Toshinori Suzuki** Ultrafast photoelectron spectroscopy in gas and liquid phases
- 17:35 – 18:00 **Maurice Janssen** Probing Mass-selective Chirality by Femtosecond Coincidence Imaging
- 18:00 – 18:25 **Thomas Allison** Ultrafast Internal Conversion in Ethylene studied with Vacuum Ultraviolet Pulse Pairs
- 20:30 – 22:00 Poster Session I (P1 – P28)

## Tuesday 11. June

### 9:00 – 13:00 **Cold Molecules, Molecular control, He-droplets**

Chair: Andreas Osterwalder

- 9:00 – 9:40 **Stefan Willitsch** Chemistry with Coulomb-Crystallized Ions in Traps
- 9:40 – 10:20 **Jochen Küpper** Controlling the motion of large molecules for the investigation of molecular dynamics
- 10:20 – 10:45 **Sebastiaan van de Meerakker** Molecular collisions coming into focus
- 10:45 – 11:20 coffee break
- Chair: J. Peter Toennies
- 11:20 – 12:00 **Henrig Stapelfeld** Laser induced alignment of molecules dissolved in Helium nanodroplets
- 12:00 – 12:25 **Frank Stienkemeier** Helium Nanoplasma Ignition in Strong NIR and EUV Pulses
- 12:25 – 12:50 **Marcel Drabbels** Existence of a critical Landau velocity in finite size helium systems
- 13:00 – 15:00 Lunch

## 15:00 – 18:35 **Biomolecules, Solvation Effects**

Chair: Petr Slaviček

- 15:00 – 15:40 **Michel Mons** Gas phase isolated peptides: Structure, Flexibility and Excited State Dynamics
- 15:40 – 16:05 **Walther Caminati** Concerted proton transfer and conformational equilibria in bi-molecules of carboxylic acids
- 16:05 – 16:30 **Melanie Schnell** Enantiomer-Specific Detection of Chiral Molecules via Microwave Spectroscopy
- 16:30 – 17:05 coffee break
- Chair: Jason Gascooke
- 17:05 – 17:45 **Mike Ashfold** Comparing molecular photofragmentation dynamics in the gas and liquid phases
- 17:45 – 18:10 **Lionel Poisson** Solvation dynamics of excited DABCO molecules on argon cluster
- 18:10 – 18:35 **Satchin Soorkia** Photofragmentation at 263 nm of small peptides containing tyrosine: role of the charge transfer on CO
- 20:30 – 22:00 Poster session II (P29 – P53)

## Wednesday 12. June

### 9:00 – 13:00 **Clusters, Aerosols**

Chair: Mike Ashfold

- 9:00 – 9:40 **Carl Lineberger** Energy Flow in Photodissociated ICN-Arn and ICN-(CO<sub>2</sub>)<sub>n</sub>: Small molecules acting large
- 9:40 – 10:20 **Bernd von Issendorff** Water clusters: thermal behavior and electron solvation
- 10:20 – 10:45 **Vitaly Kresin** Steps in the electric dipole moments of DCI(H<sub>2</sub>O)<sub>n</sub> clusters: A beam-deflection determination of the acid dissociation threshold

- 10:45 – 11:20 coffee break
- Chair: Udo Buck
- 11:20 – 12:00 **Sergey Nizkorodov** Water Uptake by Aerosolized Nanoparticles: Experiments, Modeling and Molecular Dynamics Simulations
- 12:00 – 12:25 **Juraj Fedor** Growth of ice nanoparticles via uptake of individual molecules: pickup cross sections
- 12:25 – 12:50 **Thomas Zeuch** Size resolved infrared spectroscopy of neutral, sodium tagged water clusters
- 13:00 – 14:30 Lunch

## Thursday 13. June

- 9:00 – 10:45 Surfaces**
- Chair: Martina Roeselova
- 9:00 – 9:40 **Tim Schäfer** Observation of orientation dependent electron transfer in inelastic molecule-surface collisions
- 9:40 – 10:20 **Sylvia Ceyer** Fundamental Principles of Reaction Dynamics at the Surfaces of Covalent Solids
- 10:20 – 10:45 **Anton Tamtögl** Semi-metal surfaces: A new territory for helium atom scattering measurements
- 10:45 – 11:20 coffee break

**11:20 – 13:00 New Vistas of Molecular Beams**

Chair: Uzi Even

11:20 – 12:00 **Bernd Winter** Ultrafast proton-transfer mediated charge separation in core-ionized liquid water and hydrogen-peroxide aqueous solutions: A liquid-jet autoionization study

12:00 – 12:25 **Ed Narevicius** Observation of Quantum Effects in sub Kelvin Cold Reactions

12:25 – 12:50 **Wolfgang Christen** Reference beams from dense fluids

13:00 – 15:00 Lunch

**15:00 – 18:05 Honorary Session: David J. Nesbitt, Kopin Liu, and Michel Costes**

Introduction: Carl Lineberger

15:00 – 15:50 **David J. Nesbitt** State-Resolved Molecular Beam Scattering at Gas-Liquid Interfaces

Introduction: Piergiorgio Casavecchia

15:50 – 16:40 **Kopin Liu** Steric Control of Polyatomic Chemical Reactions

16:40 – 17:15 coffee break

Introduction: Christian Naulin

17:15 – 18:05 **Michel Costes** Crossed-beam scattering experiments at very low energies

19:30 – 22:00 Conference dinner