

SUNDAY

- 4:00 pm - 8:00 pm Arrival and check-in (Check-in Desk Closed 6:00 pm - 7:45 pm)
- 6:00 pm Dinner
- 7:30 pm - 7:40 pm Welcome / Introductory Comments by GRC Site Staff
Welcome by co-Chairs Anne Zehnacker-Rentien and Andrey Vilesov
- 7:40 pm - 9:30 pm **Novel Experimental Techniques**
- 7:40 pm - 7:55 pm Discussion Leader: **Thomas Möller** (TU Berlin, Germany)
- 7:55 pm - 8:30 pm **Brooks Pate** (University of Virginia, USA)
"Structures of Molecular Clusters from Rotational Spectroscopy"
- 8:30 pm - 8:40 pm Discussion
- 8:40 pm - 9:15 pm **Christoph Bostedt** (SLAC USA)
"Imaging ultrafast processes with clusters"
- 9:15 pm - 9:25 pm Discussion
- 9:30 pm Welcome Reception

MONDAY

- 7:30 am - 8:30 am Breakfast
- 9:00 am - 12:30 pm **Quantum Clusters**
- 9:00 am - 9:15 am Discussion Leader: **Nadine Halberstadt** (CNRS-Université Toulouse, France)
- 9:15 am - 9:50 am **Frank Stienkemeier** (Freiburg University, Germany)
"Cluster experiments at the Free Electron Laser FERMI@Elettra"
- 9:50 am - 10:00 am Discussion
- 10:00 am - 10:10 am Hot topic talk: **TBA**
- 10:10 am - 10:15 am Discussion
- 10:15 am Coffee Break
- 10:45 am - 11:20 am **Marcel Drabbels** (EPFL, Lausanne, Switzerland)
"Existence of a critical Landau velocity in finite size helium systems"
- 11:20 am - 11:30 am Discussion
- 11:30 am - 11:40 am Hot topic talk: **TBA**
- 11:40 am - 11:45 am Discussion
- 11:45 am - 12:20 pm **Oliver Gessner** (LBNL, Berkeley, USA)
"Femtosecond XUV Studies of Ultrafast Dynamics in Helium Nanodroplets"
- 12:20 pm - 12:30 pm Discussion

12:30 pm	Lunch
1:30 pm - 4:30 pm	Free Time
4:30 pm – 6:00 pm	Poster Session I (preview)
6:00 pm – 8:00 pm	Theoretical Approaches to Interactions in Clusters
6:00 pm – 6:15 pm	Discussion Leader: Sotiris Xantheas (Pacific Northwest National Laboratory, USA)
6:15 pm - 6:50 pm	Anne McCoy (Ohio State University, USA) "Surprising Complexity in small molecules: Non-adiabatic photofragmentation dynamics of XCN-, XCN-Ar _n and XCN- (CO ₂) _n [X=I and Br]"
6:50 pm - 7:00 pm	Discussion
7:00 pm - 7:10 pm	Hot topic talk: TBA
7:10 pm - 7:15 am	Discussion
7:15 pm - 7:50 pm	Joel Bowman (Emory University, USA) "Global potentials and localized quantum dynamics of clusters"
7:50 pm - 8:00 pm	Discussion
8:00 pm	Dinner
9:30 pm	Poster Session I

TUESDAY

7:30 am - 8:30 am	Breakfast
8:30 am – 8:45 am	Group photo
9:00 am - 12:30 pm	Metal and Organometallic Clusters
9:00 am – 9:15 am	Discussion Leader: Bernd von Issendorff (Freiburg University, Germany)
9:15 am - 9:50 am	Andre Fielicke (TU Berlin, Germany) "Vibrational spectroscopy of metal cluster complexes: investigating the chemistry on a small surface"
9:50 am - 10:00 am	Discussion
10:00 am - 10:10 am	Hot topic talk: TBA
10:10 am - 10:15 am	Discussion
10:15 am	Coffee Break
10:45 am - 11:20 am	Tobias Lau (Helmholtz-Zentrum, Berlin, Germany) "Spin and orbital magnetic moments of homo- and heteronuclear metal clusters"
11:20 am - 11:30 am	Discussion
11:30 am - 11:40 am	Hot topic talk: TBA
11:40 am - 11:45 am	Discussion

11:45 am - 12:20 pm	Michael Duncan (University of Georgia, Athens, USA) "Metal-ligand and metal-solvent interactions studied with selected ion infrared spectroscopy"
12:20 pm - 12:30 pm	Discussion
12:30 pm	Lunch
1:30 pm - 4:30 pm	Free Time
4:30 pm – 6:00 pm	Poster Session 2 (preview)
6:00 pm – 8:00 pm	Clusters Involving Large Molecules and Biomolecules
6:00 pm – 6:15 pm	Discussion Leader: Philippe Dugourd (CNRS, Université Lyon I, France)
6:15 pm - 6:50 pm	Markus Gerhards , (TU Kaiserslautern, Germany) " From peptide aggregates to hydrated flavonoids: IR/UV spectroscopy to analyze structure and reactivity "
6:50 pm – 7:00 pm	Discussion
7:00 pm – 7:10 pm	Hot topic talk: TBA
7:10 pm - 7:15 am	Discussion
7:15 pm - 7:50 pm	Philippe Maitre (CNRS, Université Paris Sud, France) "Structure of cationized mono- and di-saccharide clusters: ion mobility and IR spectroscopy"
7:50 pm – 8:00 pm	Discussion
8:00 pm	Dinner
9:30 pm	Poster Session 2

WEDNESDAY

7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	Hydrogen Bonding in Clusters
9:00 am – 9:15 am	Discussion Leader: Takayuki Ebata (Hiroshima University, Japan)
9:15 am - 9:50 am	Sonia Melandri (Università degli studi di Bologna, Italy) "Rotational spectroscopy of hydrogen bonded molecular adducts: structural motifs and dynamical effects"
9:50 am - 10:00 am	Discussion
10:00 am - 10:10 am	Hot topic talk: TBA
10:10 am - 10:15 am	Discussion
10:15 am	Coffee Break
10:45 am - 11:20 am	Michel Mons (Centre d'études nucléaires, Saclay, France) "Gas-phase peptide systems, from structure to electronic dynamics"

11:20 am - 11:30 am	Discussion
11:30 am - 11:40 am	Hot topic talk: TBA
11:40 am - 11:45 am	Discussion
11:45 am - 12:20 pm	Yunjie Xu (Univeristy of Alberta, Canada) "Solvation of chiral molecules: new insights from the chirality transfer VCD signatures and the gas phase solvated clusters"
12:20 pm - 12:30 pm	Discussion
12:30 pm	Lunch
1:30 pm - 4:30 pm	Free Time
4:30 pm – 6:00 pm	<u>Poster Session 3 (preview)</u>
6:00 pm – 8:00 pm	Free Clusters at Low Temperatures
6:00 pm – 6:15 pm	Discussion Leader: Thomas Rizzo (École Polytechnique Fédérale de Lausanne, Switzerland)
6:15 pm - 6:50 pm	Mark Johnson (Yale University, New Haven, USA) "Cryogenic cluster ion chemistry and spectroscopy" "
6:50 pm – 7:00 pm	Discussion
7:00 pm - 7:10 pm	Hot topic talk: TBA
7:10 pm – 7:15 am	Discussion
7:15 pm - 7:50 pm	Timothy Zwier (Purdue University, USA) "Single-conformation spectroscopy of model bichromophore and biomolecular clusters"
7:50 pm – 8:00 pm	Discussion
8:00 pm	Dinner
9:30 pm	<u>Poster Session 3</u>

THURSDAY

7:30 am - 8:30 am	Breakfast
8:30 am - 9:00 am	<u>Business Meeting</u> <i>Nominations for the next Vice Chair; Fill out Conference Evaluation Forms; Discuss future Site & Scheduling preferences; Election of the next Vice Chair</i>
9:00 am - 12:30 pm	Ionic Clusters
9:00 am – 9:15 am	Discussion Leader: Masaaki Fujii (Tokyo Institute of Technology, Japan)
9:15 am - 9:50 am	Daniel Neumark (University of California Berkeley, USA) "Dynamics of excess electrons in clusters"
9:50 am - 10:00 am	Discussion

10:00 am - 10:10 am	Hot topic talk: TBA
10:10 am - 10:15 am	Discussion
10:15 am	Coffee Break
10:45 am - 11:20 am	Asuka Fujii (Tohoku University, Japan) "Infrared spectroscopy of protonated clusters: From dimers to large sizes".
11:20 am - 11:30 am	Discussion
11:30 am - 11:40 am	Hot topic talk: TBA
11:40 am - 11:45 am	Discussion
11:45 am - 12:20 pm	John Herbert (Ohio State University, USA) "New theoretical methods for computing interactions in large ionic molecular clusters"
12:20 pm - 12:30 pm	Discussion
12:30 pm	Lunch
1:30 pm - 4:30 pm	Free Time
4:30 pm – 6:00 pm	Poster Session 4 (preview)
6:00 pm – 8:00 pm	Clusters and Aerosols in Atmospheric Studies
6:00 pm – 6:15 pm	Discussion Leader: Marsha Lester (University of Pennsylvania, Philadelphia,)
6:15 pm - 6:50 pm	Ruth Signorell , (ETH Zurich, Switzerland) "Photoemission from nano-sized aerosol particles"
6:50 pm - 7:00 pm	Discussion
7:00 pm – 7:10 pm	Hot topic talk: TBA
7:10 pm – 7:15 am	Discussion
7:15 pm - 7:50 pm	Barbara Wyslouzil (Ohio State University, USA) "Phase transitions in aerosols"
7:50 pm – 8:00 pm	Discussion
8:00 pm	Dinner
9:30 pm	Poster Session 4

FRIDAY

7:30 am - 8:30 am	Breakfast
9:00 am	Departure