

# Fundamentals Interest Group Workshop and Business Meeting

ASMS 2018, San Diego, CA

## Workshop Title: Frontiers in Ion Spectroscopy

Organizers: Victor Ryzhov (NIU), 2018 workshop chair; Christian Bleiholder (FSU), 2019 workshop chair

Meeting Date: Monday, June 5, 2018

Attendance: ~80 total

The 2018 fundamentals workshop provided an overview of “action” ion spectroscopy and in-depth discussion of three specific experimental set-ups: (1) ion IR spectroscopy of cold ions and reactive intermediates, (2) coupling ion spectroscopy to ion mobility, (3) specifics of ion UV spectroscopy. The overview was provided by Jos Oomens from FELIX/Radboud University, Netherlands, who discussed principles and instrumentation of action IRMPD spectroscopy. Then, Etienne Garand (University of Wisconsin) presented his work on spectroscopy of cold ions and its application to detecting individual conformers of peptides and catalytic cycle intermediates. After that, Tom Rizzo (Ecole Polytechnique, Switzerland) discussed his work on the interface of ion spectroscopy with ion mobility. Lastly, Andy dang from the Frank Turecek group (University of Washington) described the principles of UV-PD action spectroscopy and its differences from IRMPD. There was a fair number of questions and discussion topics. We hope that the workshop stimulated students and researchers to think about using ion spectroscopy as a tool for solving their scientific problems.

Business meeting was held at the end of the workshop. Calls were made for the 2020 fundamentals workshop chair. Suggestions for the chair candidates were to be submitted via ASMS app or e-mailed to Christian Bleiholder at [cbleiholder@fsu.edu](mailto:cbleiholder@fsu.edu).



## Fundamentals Workshop: Frontiers in Ion Spectroscopy

Monday, 5:30 – 7.00 pm, Room 14 AB (mezzanine level)

### Agenda

**Business meeting**

**Infrared Multiple-Photon Dissociation Spectroscopy: A Primer**  
*Jos Oomens, FELIX Laboratory, Radboud University, Nijmegen, Netherlands*

**Spectroscopy of Cold Ions**  
*Etienne Garand, University of Wisconsin, Madison, USA*

**Interface of Ion Spectroscopy with Ion Mobility**  
*Thomas Rizzo, École Polytechnique Fédérale de Lausanne, Switzerland*

**Specifics of Ion UV Spectroscopy**  
*Andy Dang and Frantisek Turecek, University of Washington, Seattle, WA, USA*

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