

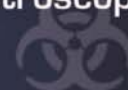
FACSS PRESENTS

SCI X 2017

National Meeting of:
Society for Applied Spectroscopy (SAS)

and

North American Society for
Laser-Induced Breakdown Spectroscopy
(NASLIBS)



FINAL PROGRAM

OCTOBER 8 - 13

Grand Sierra Resort - Reno, NV

SciXconference.org

TECHNICAL PROGRAM – TUESDAY

Orals 1:30 – 3:10 pm

- 1:50 PM (356) **Comparison of LTP-, FAPA-, and LA-hFAPA-MS for Direct Surface Analysis;** Christopher Kuhlmann¹, Jacob T. Shelley², Carsten Engelhard¹; ¹University of Siegen; ²Rensselaer Polytechnic Institute
- 2:10 PM (357) **Recent Advances in Solution-Cathode Glow Discharge Mass Spectrometry;** Andrew Schwartz¹, Jacob Shelley², Courtney Walton², Kelsey Williams¹, Gary Hieftje³; ¹State University of New York at Buffalo; ²Rensselaer Polytechnic Institute; ³Indiana University
- 2:30 PM (358) **Filamentary Discharges in DBDI Lead to Soft Ionization for Mass Spectrometry;** Luzia Gyr¹, Felix David Klute², Joachim Franzke², Renato Zenobi¹; ¹ETH Zurich; ²Leibniz-Institut für Analy. Wissenschaften - ISAS
- 2:50 PM (359) **Development of an Ambient Air Micro Discharge for soft Ionisation – The Flexible Tube Micro Plasma Ionisation (FT μ PI);** Sebastian Brandt¹, Felix David Klute¹, Alexander Schütz¹, Carolin Drees¹, Wolfgang Vautz¹, Joachim Franzke¹; ¹ISAS

Tuesday Afternoon, *Crystal 1*

17AWD05: COBLENTZ CRAVER AWARD SYMPOSIUM HONORING MARTIN ZANNI

Organizer: Martin Zanni; Presider: Mark Drury

- 1:30 PM (360) **1D- and 2D-Time-resolved Spectroscopic Studies in Conventional and Supercritical Fluids;** Mike George¹; ¹University of Nottingham
- 1:50 PM (361) **Probing the Instantaneous Ion Binding Configurations K⁺ Ion Channel Selectivity Filter Using 2D IR Spectroscopy;** Huong Kratochvil¹, Martin Zanni¹, Alvin Annen³, Kim Matulef³, Jared Ostmeier², Eduardo Perozo², Benoit Roux², Francis Valiyaveetil³, Martin Zanni¹; ¹University of Wisconsin-Madison
- 2:10 PM (362) **2D IR Vibrational Probe Pairs for Determining Structure and Dynamics in Biomolecules;** Matthew Tucker¹; ¹University of Nevada, Reno
- 2:30 PM (363) **Probing Systems at the Interface of Biology and Nanotechnology with 2D IR Spectroscopy;** Lauren Buchanan¹; ¹Vanderbilt University
- 2:50 PM (364) **Direct Charge Transfer across Organic Semiconductor and Metal Interfaces;** Wei Xiong¹, Bo Xiang¹, Yingmin Li¹, Huy Pham¹, Francesco Paesani¹; ¹University of California - San Diego

Tuesday Afternoon, *Crystal 5*

17CTP02: DIVERSITY, EQUITY, AND INCLUSION IN ANALYTICAL CHEMISTRY

Organizers and Presiders: Anna Donnell, Ingeborg Ipping Petterson

- 1:30 PM (365) **The Chemistry Diversity Initiative: A Graduate Student Program for Success at Purdue University;** Jean Chmielewski, Colby Adolph¹, Stella Betancourt¹, Reena Blade¹, Chris Pulliam¹; ¹Purdue University
- 1:50 PM (366) **Retaining Underrepresented Groups at Both the Undergraduate and Graduate Level;** Susan Olesik, Terry Gustafson¹, Thomas Magliery¹; ¹The Ohio State University
- 2:10 PM (367) **Global Initiatives for Conducting Medicine Anti-Counterfeiting Research: Working with multidisciplinary Backgrounds Worldwide;** Sulaf Assi¹; ¹Bournemouth University
- 2:30 PM (368) **Diversity, Equity, and Inclusion in Analytical Chemistry;** Megan Schmale¹; ¹University of Cincinnati

Tuesday Afternoon, *Carson 1*

17IR06: QUANTUM CASCADE LASERS - II

Organizer: Bernhard Lendl; Presider: Bernhard Lendl, Gerard Wysocki

- 1:30 PM (369) **Label-Free Tissue Classification by QCL Based IR-Imaging;** Klaus Gerwert¹; ¹Ruhr-University Bochum
- 1:50 PM (370) **Quantum Cascade Laser (QCL) Hyperspectral Imaging Applied to Live Cell Analysis;** Bayden Wood¹, Dale Christensen¹, Ellen Lowry¹, Philip Heraud¹, David Perez-Guaita¹; ¹Monash University
- 2:10 PM (371) **On-Chip Quantum Cascade Laser/Detector System for Remote Gas Sensing;** Rolf Szedlak¹, Andreas Harrer¹, Benedikt Schwarz¹, Martin Holzbauer¹, Johannes Paul Waclawek², Hermann Detz³, Aaron Maxwell Andrews¹, Werner Schrenk¹, Bernhard Lendl², Gottfried Strasser¹; ¹Institute of Solid State Electronics, TU Wien; ²Institute of Chemical Technologies, TU Wien; ³Austrian Academy of Sciences
- 2:30 PM (372) **Time-Resolved Spectroscopy of Biological Samples Using QCL Dual-Comb Technique;** Markus Geiser^{1,2}, Markus Mangold¹, Pitt Allmendinger¹, Andreas Hugi¹, Filippos Kapsalidis², Pierre Jouy², Jérôme Faist²; ¹IRsweep AG, Auguste-Piccard-Hof 1, 8093 Zurich, CH; ²ETH Zurich, IQE, Auguste-Piccard-Hof 1
- 2:50 PM (373) **Field-Resolved Spectroscopy in the Mid-Infrared Region: A Highly Sensitive Tool for Molecular Fingerprinting;** Marinus Huber^{1,2}, Wolfgang Schweinberger^{2,3}, Liudmila Voronina^{1,2}, Syed Ali Hussain², Christina Hofer^{1,2}, Michael Trubetskov¹, Mihaela Zigman^{1,2}, Ferenc Krausz^{1,2}, Ioachim Pupeza^{1,2}; ¹Max-Planck-Institut für Quantenoptik; ²Ludwig-Maximilians-Universität München; ³King Saud University

Tuesday Afternoon, *Crystal 3*

17LIBS05: NALIBS: ELEMENTAL MAPPING BY LIBS

Organizer and Presider: Nouredine Melikechi

- 1:30 PM (374) **Elemental Mapping of Teeth for Anthropological Studies;** Mathieu Baudeler¹, Mauro Martinez¹, John Schultz², Michelle Hawkins², Lana Williams², Tasha Dupras²; ¹NCFS - University of Central Florida, ²Anthropology department, UCF
- 2:10 PM (375) **Digitalization of Drill Core Samples for Mining Exploration Using LIBS;** Francois Doucet¹, Lutfu Ozcan¹, Altan Muftuoglu¹, Dominique Doucet²; ¹ELEMISSION Inc.; ²Sirios Ressource Inc.
- 2:30 PM (376) **Mapping Analyte Distributions in Surrogate Nuclear Melt Glass Using Laser-Induced Breakdown Spectroscopy and Micro X-Ray Fluorescence;** Michael Shattan^{1,4}, Ashley Stowe², Kathryn McIntosh³, John Auxier II^{1,4}, Christian Parigger¹, Howard Hall^{1,4}; ¹University of Tennessee; ²Y12 Nuclear Security Site; ³Los Alamos National Laboratory; ⁴Institute for Nuclear Security
- 2:50 PM (377) **Laser-Induced Breakdown Spectroscopy in Analysis of Elemental Distributions;** Saara Kaski¹, Sari Romppanen¹, Heikki Häkkinen¹; ¹University of Jyväskylä