

PROFESSIONAL MEETINGS, COLLOQUIA, AND SEMINARS

Name Lectureships/Award Presentations

1. ***“New Sources and Spectrometers for Analytical and Bioanalytical Measurement”***, Gary M. Hieftje. **Frost Lecture**, Queen’s University, Kingston, Ontario, CANADA, October 21, 2016. **(presented by G.M. Hieftje)**

Invited papers or talks

1. ***“Advanced in Plasma Spectrochemistry”***, Gary M. Hieftje. **2016 Winter Conference on Plasma Spectrochemistry**. January 10-16, 2016, Tucson, AZ. **(Plenary lecture presented by G.M. Hieftje)**
2. ***“Unique Atmospheric-Pressure Glow Discharges: Sources of Ions, Molecules, Atoms, and Chemistry”***, Jacob T. Shelley (Kent State University), Sunli P. Badal (Kent State University), Kelsey L. Williams (Kent State University), Andrew J. Schwartz (Indiana University), and Gary M. Hieftje (Indiana University). **2016 Winter Conference on Plasma Spectrochemistry**. January 10-16, 2016, Tucson, AZ. **(Invited lecture presented by J.T. Shelley of Kent State University)**
3. ***“Improvements in Velocity-based Mass Analysis by Use of Constant-Momentum Acceleration”***, Gary M. Hieftje, Elise A. Dennis, Steven J. Ray, Christie G. Enke, and Alexander Gundlach-Graham. **2016 Pittsburgh Conference and Exposition**, March 6-10, 2016, Atlanta, GA. **(Invited lecture presented by G.M. Hieftje)**
4. ***“The Unique Analytical Capabilities of Distance-of-Flight Mass Spectrometry”***, Steven J. Ray, Elise A. Dennis, David W. Koppenaal, Christie G. Enke, and Gary M. Hieftje. **2016 Pittsburgh Conference and Exposition**, March 6-10, 2016, Atlanta, GA. **(Invited lecture presented by S.J. Ray of SUNY-Buffalo)**
5. ***“The Glow on the Horizon: New Sources for Emission and Mass Spectrometry”***, Gary M. Hieftje. **Spectroscopy Society of Pittsburgh**, April 27, 2016, Pittsburgh, PA. **(Invited lecture presented by G.M. Hieftje)**
6. ***“New Sources and Spectrometers for Atomic, Speciation, Isotopic, and Metallomic Analysis”***, Gary M. Hieftje, Andrew J. Schwartz and Elise A. Dennis. **2016 Annual Analytica Conference**, May 10-13, 2016, München, Germany. **(Invited lecture presented by G.M. Hieftje)**
7. ***“Is There No Better Plasma for Spectrochemistry Than the Argon ICP?”***, Gary M. Hieftje, Andrew J. Schwartz, Yan Cheung, Cerae E. Cissna and Gina C. Roesch. **8th Nordic Conference on Plasma Spectrochemistry**, June 5-8, 2016, Loen, Norway. **(Invited lecture presented by G.M. Hieftje)**
8. ***“Distance of Flight Mass Spectrometry and New Modes of Time-of-Flight Mass Spectrometry: Developing New Analytical Capabilities Through Novel Instrumental Approaches”*** Steven J. Ray, Elise A. Dennis, Gary M. Hieftje, Christie G. Enke and David W. Koppenaal. **8th Nordic Conference on Plasma Spectrochemistry**, June 5-8, 2016, Loen, Norway. **(Invited lecture presented by S.J. Ray of the State University of New York-Buffalo)**
9. ***“Signal to Noise Enhancement Methods for Atomic Spectrometry”***, 8th Nordic Conference on Plasma Spectrochemistry, June 5-8, 2016, Loen, Norway. **(Invited short course presented by G.M. Hieftje)**
10. ***“Atmospheric-Pressure Plasmas for Chemical Analysis”***, Gary M. Hieftje. **Gordon Research Conference 2016**, July 24-29, 2016, Proctor Academy, New Hampshire. **(Invited lecture presented by G.M. Hieftje)**
11. ***“Microwave-Sustained, Inductively Coupled, Atmospheric-Pressure Plasma (MICAP): An Attractive Alternative to the Inductively Coupled Plasma (ICP)”***. Cera E. Cissna, Andrew J. Schwartz and Gary M. Hieftje. **SciX 2016**, September 18-23, 2016, Minneapolis, MN. **(Invited lecture presented by C.E. Cissna)**

2016 Hieftje Group Presentations

12. **“Method for Flagging Matrix Effects in Solution-Cathode Glow Discharge Emission Spectrometry”**. Gina C. Roesch, Andrew J. Schwartz and Gary M. Hieftje. **SciX 2016**, September 18-23, 2016, Minneapolis, MN. **(Invited lecture presented by G.C. Roesch)**
13. **“Atmospheric-Pressure Ionization and Tunable Fragmentation of Peptides by Solution-Cathode Glow Discharge”** Andrew J. Schwartz, Jacob T. Shelley, Kelsey L. Williams, Courtney L. Walton and Gary M. Hieftje. **SciX 2016**, September 18-23, 2016, Minneapolis, MN. **(Invited paper presented by A.J. Schwartz)**
14. **“Tunable Ionization and Fragmentation with Plasma-based Ambient Ionization Sources to Expand Their Utility in Forensic Applications”**, Jacob T. Shelley, Sunil Badal, Andrew J. Schwartz, Garrett MacLean, Courtney Walton, Kelsey Williams and Gary M. Hieftje. **SciX 2016**, September 18-23, 2016, Minneapolis, MN. **Joint collaboration with Kent State University. (Invited paper presented by J.T. Shelley of Kent State University)**
15. **“New Sources and Spectrometers for Analytical and Bioanalytical Measurement”**, Gary M. Hieftje. **6th BrMass - 1st IbMS**, December 10-14, 2016, Rio de Janeiro, BRAZIL. **(Plenary lecture presented by G.M. Hieftje)**

Contributed or competitive papers

1. **“Solution-Cathode Glow Discharge Ionization Source for Elemental, Molecular, and Biological Mass Spectrometry”**, Andrew J. Schwartz (Indiana University), Gary M. Hieftje (Indiana University), Kelsey L. Williams (Kent State University) and Jacob T. Shelley (Kent State University). **2016 Winter Conference on Plasma Spectrochemistry**. January 10-16, Tucson, AZ. **(Lecture presented by A.J. Schwartz)**
2. **“Microplasma-Based Flowing Atmospheric-Pressure Afterglow Source for Ambient Desorption-Ionization Mass Spectrometry”**, Offer Zeiri, Andrew P. Storey, Steven J. Ray and Gary M. Hieftje. **19th Annual Meeting of the Israel Analytical Chemistry Society (ISR Analytica 2016)**, January 19-20, Tel Aviv, Israel. **(Lecture presented by O. Zeiri, Nuclear Research Center Negev, Beer Sheva, Israel)**
3. **“Introducing The Microplasma-Based Flowing Atmospheric-Pressure Afterglow Source For Ambient Desorption-Ionization Mass Spectrometry”**, Offer Zeiri, Andrew P. Storey, Steven J. Ray, and Gary M. Hieftje. **81st Annual Meeting of the Israel Chemical Society**, Feb 9-19, Tel Aviv, Israel. **(Lecture presented by O. Zeiri, Department of Analytical Chemistry, Nuclear Research Center Negev, Beer-Sheva, Israel)**
4. **“Solution-Cathode Glow Discharge: A Versatile Ion Source for Atomic and Molecular Mass Spectrometry”**, Andrew J. Schwartz, Kelsey L. Williams, Courtney L. Walton, Gary M. Hieftje, and Jacob T. Shelley. **64th American Society for Mass Spectrometry Conference**, Jun 5-9, San Antonio, TX. **(collaboration with Kent State - contributed paper presented by A.J. Schwartz)**
5. **“Ionization and Tunable Fragmentation of Biopolymers at Atmospheric Pressure with a Direct-Sampling Solution-Cathode Glow Discharge”**, Jacob T. Shelley, Andrew J. Schwartz, Kelsey Williams, Courtney Walton and Gary M. Hieftje. **64th American Society for Mass Spectrometry Conference**, Jun 5-9, San Antonio, TX. **(collaboration with Kent State - contributed paper presented by J.T. Shelley of Kent State University)**