

2018 Hieftje Group Presentations

PROFESSIONAL MEETINGS, COLLOQUIA, AND SEMINARS

Invited papers or talks

1. **“And Now What?”**, Gary M. Hieftje. **2018 Winter Conference on Plasma Spectrochemistry**. January 5-13, 2018, Amelia Island, FL. **(Plenary lecture presented by G.M. Hieftje)**
2. **“A800 Workshop Series”**, Gary M. Hieftje. **Indiana University, Department of Chemistry**, Jan 23, 2018, Bloomington, IN. **(Workshop presented by G.M. Hieftje)**
3. **“Advice from a Hiring Perspective”**, Gary M. Hieftje. **Conference on Preparing Future Faculty**, Indiana University, Bloomington, IN, Feb 9, 2017. **(Invited lecture presented by G.M. Hieftje)**
4. **“Are There No New Tools for Metallomic Analysis?”**, Gary M. Hieftje. **2018 Pittsburgh Conference and Exposition**, Feb 25-Mar 1, 2018, Orlando, FL. **(Invited lecture presented by G.M. Hieftje)**
5. **“Atmospheric-Pressure Glow Discharges as Ionization Sources for Fieldable and Portable Mass-Spectrometric Detection of Elemental Species”**, Jacob T. Shelley, Garrett M. MacLean, Ifeoluwa Ayodeji, Theresa Evans-Nguyen, George C.-Y. Chan, and Gary M. Hieftje. **2018 Pittsburgh Conference and Exposition**, Feb 25-Mar 1, 2018, Orlando, FL. (Collaborative research with Rensselaer Polytechnic Institute, Troy, NY, University of South Florida, Tampa, FL, and Lawrence Berkeley National Laboratory, Berkeley, CA). **(Invited lecture presented by J.T. Shelley of Rensselaer Polytechnic Institute, Troy, NY)**
6. **“Pushing the Boundaries of Plasma-Based Chemical Analysis: Alternatives to the ICP that Extend Beyond the Realm of Atomic Spectroscopy”** Andrew J. Schwartz, Jacob T. Shelley, Steven J. Ray, Courtney Walton, Kelsey L. Williams, Jovan Jevtic, Ashok Menon, Velibor Pikelja and Gary M. Hieftje. **2018 Pittsburgh Conference and Exposition**, Feb 25-Mar 1, 2018, Orlando, FL. (Collaborative research with SUNY-Buffalo, NY, Rensselaer Polytechnic Institute, Troy, NY and RADOM Corporation, Hales, WI). **(Invited lecture presented by A.J. Schwartz of State University of New York, Buffalo, NY)**
7. **“Distance-of-Flight Mass Spectrometry Using Solid-State Ion Detector Arrays”**, Steven J. Ray, Gene Atlas, Christopher A. Brais, Jaime Orejas-Ibanez, Andrew J. Schwartz, and Kelsey L. Williams. **2018 Pittsburgh Conference and Exposition**, Feb 25-Mar 1, 2018, Orlando, FL. (Collaborative research with SUNY-Buffalo, NY, Imager Laboratories, University of Arizona, Tucson, AZ). **(Invited lecture presented by S.J. Ray of State University of New York, Buffalo, NY)**
8. **“Is there no Better Analytical Plasma Source than the ICP?”**, Gary M. Hieftje. **25th ACS National Meeting**, Mar 18-22, 2018, New Orleans, LA. **(Invited lecture presented by G.M. Hieftje)**
9. **“Novel Plasma-Based Tools for Real-Time Mass-Spectral Analysis of Atomic, Molecular and Polymeric Species”**, Jacob T. Shelley, Andrew J. Schwartz, Courtney L. Walton, Sunil P. Badal, Garrett M. MacLean, Michaela J. Burnley, Judy Wu, Jessica R. Hellinger and Gary M. Hieftje. **255th ACS National Meeting**, Mar 18-22, 2018, New Orleans, LA. (Collaborative research with Rensselaer Polytechnic Institute, Troy, NY and SUNY-Buffalo, NY). **(Invited lecture presented by Jacob T. Shelley of Rensselaer Polytechnic Institute, Troy, NY)**

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10. **“ICP-AES: Is the End Near?”**, Gary M. Hieftje, Andrew J. Schwartz, Cera E. Cissna and Klemens M. Thaler. **GDCh analytica Conference 2018**, April 10-13, 2018, Munich, Germany. (Collaborative research with SUNY-Buffalo, NY and Technische Universität München, Germany). **(Invited lecture presented by G.M. Hieftje)**
11. **“Plasma Spectrochemistry and Its Relatives”**, Gary M. Hieftje, A. J. Schwartz, J. T. Shelley, Y. Cheung, K. M. Thaler, C. E. Cissna, and G. C. Roesch. **2018 Nordic Plasma Conference**, June 10-13, Loen, Norway. **(Plenary lecture presented by G.M. Hieftje)**
12. **“Fundamentals of Laser Operation”**, Gary M. Hieftje. **2018 Nordic Plasma Conference**, June 10-13, Loen, Norway. **(Invited short course presented by G.M. Hieftje)**
13. **“Is There No Better Analytical Plasma Source than the ICP?”**, Gary M. Hieftje Andrew Schwartz and Jacob T. Shelley. (Collaborative research with Rensselaer Polytechnic Institute, Troy, NY). **Analitika 2018**, Mookgophong, Limpopo, South Africa, July 22-25, 2018. **(Plenary lecture presented by G.M. Hieftje)**
14. **“Time-of-Flight and Distance-of-Flight Mass Spectrometry”**, Gary M. Hieftje. **Analitika 2018 Post Conference**, Pretoria, South Africa, July 26, 2018. **(Invited Short Course presented by Gary M. Hieftje)**
15. **“New Ion Sources for Metallomic Analysis and Isotope-Ratio Mass Spectrometry”**, Gary M. Hieftje. **XXII International Mass Spectrometry Conference**, Florence, Italy, August 26-31. **(Invited lecture presented by G.M. Hieftje)**
16. **“And Now What? Past, Present, and Future in Atomic Spectroscopy”**, Gary M. Hieftje. **SAS Speaker Tour – Maryville University**, St. Louis, MO, October 11, 2018. **(Invited lecture presented by G.M. Hieftje)**
17. **“Perspectives in Analytical Plasma and Atomic Spectrometry”**, Gary M. Hieftje. **Special Symposium: 60th Anniversary of the Society of Applied Spectroscopy** held at the **2018 SciX Conference**, October 21-26, 2018, Atlanta, GA. **(Invited lecture presented by G.M. Hieftje)**
18. **“Ted Rains: Setting the Standard”**, Gary M. Hieftje. **Special Symposium: Tribute to the Life and Work of Theodore Rains** held at the **2018 SciX Conference**, October 21-26, 2018, Atlanta, GA. **(Invited lecture presented by G.M. Hieftje)**
19. **“Plasma as Ionization and Fragmentation Tools for Small Molecule and Biopolymer Detection, Identification”**, Jacob T. Shelley, Andrew Schwartz, Courtney Walton, Judy Wu, Michaela Burnley and Gary M. Hieftje. (Collaborative research with Rensselaer Polytechnic Institute, Troy, NY and SUNY-Buffalo, NY). **2018 SciX Conference**, October 21-26, 2018, Atlanta, GA. **(Invited lecture presented by Jacob T. Shelley of Rensselaer Polytechnic Institute, Troy, NY)**

Contributed Papers/Poster

1. **“Improvement in Ambient Mass Spectrometry Sensitivity via Computational Fluid Dynamics Modeling”**, Allen R. White, Jin Young Song, Brian T. Molnar, Sunil P. Badal, Jacob T. Shelley, and Gary M. Hieftje. (Collaborative research with Rose-Hulman Institute of Technology). **2018 SciX Conference**, October 21-26, 2018, Atlanta, GA. **(Poster presented by Prof. Allen R. White of Rose-Hulman Institute of Technology, Terre Haute, IN)**

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2. ***“Next Generation ICP: The Microwave-Sustained, Inductively Coupled Atmospheric-Pressure Plasma”***, Andrew Schwartz, Yan Cheung, Steven Ray, Jovan Jevtic, Ashok Menon, Velibor Pikelia and Gary M. Hieftje. **2018 SciX Conference**, October 21-26, 2018, Atlanta, GA. **(Paper presented by Prof. Steven J. Ray of SUNY, Buffalo, NY)**

Session Chair/Organizer

1. **2018 Winter Conference on Plasma Spectrochemistry**, Amelia Island, FL, Jan 9, 2017. ***“Laser Assisted Plasma Spectrochemistry”*** – Session Chair
2. **2018 Winter Conference on Plasma Spectrochemistry**, Amelia Island, FL, Jan 10, 2017. ***“Heritage Lecture-D.W. Koppenaal”*** – Session Chair
3. **2018 Pittsburgh Conference and Exposition**, Atlanta, GA, Feb 25-Mar 1, 2018. ***“Metallics: Does Analytical Science Still Have a Role?”*** – Session Organizer (co-chair with R. Kenneth Marcus, Clemson University, Clemson, SC)
4. **255th American Chemical Society-National Meeting**, New Orleans, LA, Mar 18-22, 2018. ***“Biomolecular, Molecular & Elemental Spectrometry with Plasma Sources”***– Session Organizer (co-chair with Jacob T. Shelley, Rensselaer Polytechnic Institute, Troy, NY)
5. **Analitika 2018**, Mookgophong, Limpopo, South Africa, July 22-26, 2018. **Lasers - Session Chair**