

—GLEN PAUL JACKSON, FRSC, FAAFS—

Department of Forensic & Investigative Science
 West Virginia University
 308 Oglebay Hall
 Morgantown, WV 26506-6121

Phone: 304-293-9236
 Fax: 304-293-2663
 E-mail: glen.jackson@mail.wvu.edu

POSITIONS HELD

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|--------------|---|
| 2012–present | Ming Hsieh Distinguished Professor of Forensic and Investigative Science
West Virginia University, Morgantown, WV |
| 2016–present | Full Professor of Forensic and Investigative Science
West Virginia University, Morgantown, WV |
| 2012–2016 | Associate Professor of Forensic and Investigative Science
West Virginia University, Morgantown, WV |
| 2014–present | Adjunct Assistant Professor of Biology
West Virginia University, Morgantown, WV |
| 2012–present | Joint Associate Professor of Chemistry
West Virginia University, Morgantown, WV |
| 2009–2012 | Director, BS Forensic Chemistry Program
Ohio University, Athens, OH |
| 2009–2012 | Associate Professor of Chemistry and Biochemistry
Ohio University, Athens, OH |
| 2004–2009 | Assistant Professor of Chemistry and Biochemistry
Ohio University, Athens, OH |
| 2002–2004 | Postdoctoral Research Associate
Oak Ridge National Laboratory, Oak Ridge, TN |
| 2000–2002 | Doctoral Research Associate (Intern)
Oak Ridge National Laboratory, Oak Ridge, TN |
| 1998–2000 | Graduate Teaching Assistant
West Virginia University, Morgantown, WV |
| 1996–1997 | Graduate Teaching Assistant
Ohio University, Athens, OH |

EDUCATION

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| 1998–2002 | Ph.D. Analytical Chemistry.
West Virginia University, Morgantown, WV . |
| 1996–1998 | M.S. Analytical Chemistry.
Ohio University, Athens, OH (coursework completed during year abroad in 1996–1997, degree conferred in 1998). |
| 1994–1998 | B.S. (2:1 with Honors) Chemical and Analytical Science (year abroad in 1996–1997).
University of Wales Swansea, UK. |

AWARDS AND RECOGNITION

2013	FACSS Innovation Award Finalist.
2011	Transformative Faculty Award for Teaching (Ohio University).
2008	Distinguished Public Speaker in STEM, Southeast Ohio Center for Excellence in Mathematics and Science (SEOCEMS).
2008–2013	NSF CAREER Award “Mass Spectrometry for the Masses.”
2001	ASMS Travel Award, East Tennessee Mass Spectrometry Discussion Group.
2000	Forest Ferrell Award, Department of Chemistry, West Virginia University.
1999–2000	HERF Fellowship Award, West Virginia University.
1999	Outstanding Teaching Assistant of the Year Award, Department of Chemistry, West Virginia University.
1998–1999	HERF Fellowship Award, West Virginia University.

PROFESSIONAL MEMBERSHIPS AND AFFILIATIONS

1997–present	Fellow (since 2017), Royal Society of Chemistry (RSC).
2016–present	Co-Editor-in-Chief (with Prof. José Almirall), <i>Forensic Chemistry</i> published by Elsevier, Amsterdam, Netherlands.
2014–present	Member, Forensic Isotope Ratio Mass Spectrometry (FIRMS) Network.
2010–2012	Member, Forensic Science Institute of Ohio (FSIO).
2010–present	Fellow (since 2018), American Academy of Forensic Sciences (AAFS), Criminalistics.
2002–2004	Member & Secretary, East Tennessee Mass Spectrometry Discussion Group.
2001–Present	Member, American Society for Mass Spectrometry (ASMS).
2000–Present	Member, American Chemical Society (ACS), Analytical Division.

FUNDING RECEIVED

Total weighted external funding for grants awarded PI or Co-PI (2012-present): \$2.7M.

Federal/State

2018–2021	“Investigating the Kinetic and Thermodynamic Approaches to Predict Evaporation of Gasoline at Elevated Temperatures for Fire Debris Applications,” Department of Justice, National Institute of Justice, \$466,769 . Function: Co-PI, ~35% effort (PI, Ruth Smith, MSU).
2018–2021	“Structural Characterization of Emerging Synthetic Drugs,” Department of Justice, National Institute of Justice, \$368,415 . Function: PI (w/ Co-PI, Randall Clark at Auburn U).
2017–2020	“Development of Charge Transfer Mass Spectrometry (CTD-MS) of Oligosaccharides,” National Science Foundation, \$450,000 . Function: PI.
2015–2020	“Developing IMS-SID/MAD-MS Instrumentation for Characterizing Intrinsically Disordered Protein Structure,” NIH/NIGMS, \$1,376,751 . Function: Co-PI, 37.5% effort (PI, Stephen Valentine, WVU).
2014–2016	“Biometrics from the Isotopic Analysis of Amino Acids in Human Hair,” Department of Justice, National Institute of Justice, \$283,484 . Function: PI.

- 2011–2013 “Expedited Field Survey & Sampling Techniques for Polychlorinated Biphenyl (PCB) Congeners and Dioxins,” Department of Energy, **\$284,345**. Function: Co-PI, 40% effort (PI, Mark Weinberg).
- 2010 “The Science Behind Forensic Science: An Exhibit at the US Science and Engineering Expo,” Supplement for CAREER: Mass Spectrometry for the Masses, National Science Foundation, Chemistry Division, **\$2,500**. Function: PI.
- 2008–2014 “CAREER: Mass Spectrometry for the Masses,” National Science Foundation, Chemistry Division, (0745590), **\$562,000**. Function: PI.
- 2008–2012 “Exfiltration Trench for Post Construction Storm Water Management for Linear Transportation Projects,” Ohio Department of Transportation, Office of Research and Development, **\$533, 033**. Function: Co-PI, 10% effort (PI, Gayle Mitchell).
- 2007–2011 “Vegetated Biofilters for Post Construction Storm Water Management for Linear Transportation Projects,” Ohio Department of Transportation, Office of Research and Development, **\$432,922**. Function: Co-PI, 20% effort (PI, Gayle Mitchell).
- 2007–2010 “Development of an Advanced Quadrupole Ion Trap for Proteomics,” National Science Foundation, Division of Biological Infrastructure, Instrumentation Development for Biological Research (0649757), **\$228,160**. Function: PI.
- 2006 “Purchase of an Inductively-Coupled Plasma Optical Emission Spectrophotometer,” State of Ohio House Bill 18, **\$55,000**. Function: Co-PI, 50% effort (PI, Peter B Harrington).

Private/Industry/Other

- 2013–14 “Modulated DART Ion Source,” IonSense, Inc., **\$5,000**. Function: PI.

Internal (WVU and Ohio University)

- 2017 “Cheat Lake Science Fair,” Eberly College of Arts and Sciences Community Engagement Grant, **\$750**. Function: PI.
- 2010 “Acquisition of a Micro-FTIR system,” College of Arts and Sciences Technology Fund, **\$45,283**. Function: PI.
- 2009 “Metastable Atom-Activated Dissociation Mass Spectrometry,” Ohio University Research Priorities Fund, BMIT Graduate Research Associate, **\$10,000**. Function: PI.
- 2009 “Acquisition of an Inductively Coupled Plasma Mass spectrometer (ICP-MS),” CAS and VP Research. **\$25,000**. Function: Co-PI, 30% effort (PI, Peter B. Harrington).
- 2007 “Master’s Degree Program in Forensic Chemistry,” Future Growth Fund. **\$147,358**. Function: Co-PI, 30% effort (PI, Peter B. Harrington).
- 2007–2009 “Development of a Portable Mass Spectrometer Operating at High Pressures,” Ohio University Research Priorities Fund, BMIT Graduate Research Associate, **\$14,625**. Function: PI.
- 2006 “Acquisition of GC-Combustion Isotope Ratio Mass Spectrometer,” Ohio University Matching Funds, **\$35,000** (VP Research 43%, College of Arts and Sciences 15%, Center for Intelligent Chemical Instrumentation 15%). Function: PI.
- 2006 “Acquisition of a Polarized Light Microscope and Digital Imaging System,” College of Arts and Sciences Technology Fund, **\$8,645**. Function: PI.

- 2005 “Acquisition of a UV/VIS and Raman Instrument for Undergraduate Teaching Labs,” College of Arts and Sciences Technology Fund, **\$16,743**. Function: Co PI (PI Peter de B Harrington).
- 2005 “Acquisition of Equipment for Metastable Atom-Activated Dissociation of Biological ions,” NanoBiotechnology Institute, Ohio University Research Priorities Fund, **\$35,000**. Function: Co Investigator (PI Steve Bergmeier).

INTELLECTUAL PROPERTY

- 3) “Method and Device for Mass Spectrometric Analysis of Biomolecules using Charge Transfer Dissociation (CTD),” US Patent Number 9,997,342. Issued June 12, **2018**. Role: PI.
- 2) “Method for Sequencing Peptides and Proteins Using Metastable Atom-Activated Dissociation Mass Spectrometry,” US Patent Number 8,389,931. Issued March 05, **2013**. Role: PI.
- 1) “Portable Loeb-Eiber Mass Spectrometer,” US patent number US 7,772,546, issued Aug 10, **2010**. Role: PI.

PUBLICATIONS

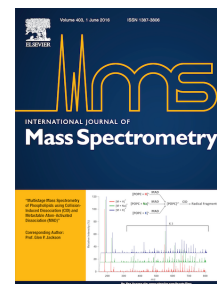
*Denotes invited publication.

#Article featured on front cover of journal.

West Virginia University

- 67) M. K. Santos, G. B. Walber, L. J. Danielli, T. Kreutz, K. C. Mariotti, M. Ritter, L. E. Arroyo, G. P. Jackson, R. P. Limberger, “Determination of 1,3-dimethylamylamine in leaves by headspace extraction followed by GC-MS analysis and in essential oils from species of *Pelargonium* by GC-MS, DART-MS/MS and LC-MS/MS,” *Chromatographia*, **2018**, submitted.
- 66) M. P. V. Matos, K. I. Konstantynova, R. M. Mohr, G. P. Jackson, “Analysis of the ¹³C isotope ratios of amino acids in the larvae, pupae, and adult stages of *Calliphora vicina* blow flies and their carrion food sources,” *Anal. Bioanal. Chem.*, **2018**, in press.
- 65) J. T. Davidson, B. J. Lum, G. Nano, G. P. Jackson, “Comparison of Measured and Recommended Acceptance Criteria for the Analysis of Seized Drugs using Gas Chromatography-Mass Spectrometry (GC-MS),” *Forens. Chem.*, **2018**, 10, 15-26.
- 64) M. K. Santos, E. Gleco, J. T. Davidson, D. B. J. Neves, G. P. Jackson, R. P. Limberger, L. E. Arroyo, “DART-MS/MS screening for the determination of 1,3-Dimethylamylamine (DMAA) and undeclared stimulants in seized dietary supplements from Brazil,” *Forens. Chem.*, **2018**, 8, 134–145.
- 63) S. Khodjanizyazova, M. Nazari, M. P. V. Matos, G. P. Jackson, D. C. Muddiman, “Characterization of the Spectral Accuracy of an Orbitrap Mass Analyzer using Isotope Ratio Mass Spectrometry,” *Anal. Chem.*, **2018**, 90, 1897–1906.
- 62) * P. Li, I. C. Kreft, G. P. Jackson, “Charge Transfer Dissociation (CTD) of Gas-Phase Insulin: Evidence of a One-Step, Two-Electron Oxidation Mechanism,” *J. Am. Soc. Mass Spectrom.*, **2018**, 29(2), 284–296.
- 61) D. Ropartz, P. Li, G. P. Jackson, H. Rogniaux, “Negative Polarity Helium Charge Transfer Dissociation Tandem Mass Spectrometry: Radical-Initiated Fragmentation of Complex Polysulfated Anions,” *Anal. Chem.*, **2017**, 89, 3824–3828.

- 60) H. L. Birks, A. R. Cochran, T. J. Williams, G. P. Jackson, “The Surprising Effect of Temperature on the Weathering of Gasoline,” *Forens. Chem.*, **2017**, 4, 32–40.
- 59) P. Li, G. P. Jackson, “Charge Transfer Dissociation (CTD) of Phosphocholines: Gas-Phase Ion/Ion Reactions between Helium Cations and Phospholipid Cations,” *J. Mass Spectrom.*, **2017**, 52, 271–282.
- 58) *P. Li, G. P. Jackson, “Charge Transfer Dissociation (CTD) Mass Spectrometry of Peptide Cations: Study of Charge State Effects and Side-Chain Losses,” *J. Am. Soc. Mass Spectrom. (Special Focus: Bio-Ion Chemistry: Interactions of Biological Ions with Ions, Molecules, Surfaces, Electrons, and Light)*, **2017**, 28, 1271–1281.
- 57) G. P. Jackson, “Error Terror in Forensic Science: When Spectroscopy Meets the Courts,” *Spectroscopy*, **2016**, 31(11), 12–16.
- 56) D. Ropartz, P. Li, M. Fanuel, A. Giuliani, H. Rogniaux, G. P. Jackson, “Charge Transfer Dissociation of Complex Oligosaccharides: Comparison with Collision-Induced Dissociation and Extreme Ultraviolet Dissociative Photoionization,” *J. Am. Soc. Mass Spectrom.*, **2016**, 27, 1614–1619.
- 55) #P. Li, W. D. Hoffmann and G. P. Jackson, “Multistage Mass Spectrometry of Phospholipids using Collision-Induced Dissociation (CID) and Metastable Atom-Activated Dissociation (MAD),” *Int. J. Mass Spectrom.*, **2016**, 403, 1–7.
- 54) M. Zhang, N. A. Kruse, J. R. Bowman, G. P. Jackson, “Field Analysis of Polychlorinated Biphenyls (PCBs) in Soil using a Portable Solid Phase Microextraction (SPME) and Gas Chromatograph/Mass Spectrometry System,” *Appl. Spectrosc. (Special Edition on Portable Spectroscopy)*, **2016**, 70(5), 785–793.
- 53) F. Hülsemann, C. Lehn, S. Schneiders, G. P. Jackson, S. Hill, A. Rossmann, N. Scheid, P. J. H. Dunn, U. Flenker, W. Schänzer, “Global Spatial Distributions of Nitrogen and Carbon Stable Isotope Ratios of Modern Human Hair,” *Rapid Commun. Mass Spectrom.*, **2015**, 29, 2111–2121.
- 52) *R. E. Deimler, M. Sander, G. P. Jackson, “Radical-Induced Fragmentation of Phospholipid Cations using Metastable Atom-Activated Dissociation Mass Spectrometry (MAD-MS),” *Int. J. Mass Spectrom.*, (Special Edition on Biological Radicals) **2015**, 390, 178–186.
- 51) A. H. B. Rashaid, P. B. Harrington, G. P. Jackson, “Profiling Amino Acids of Jordanian Scalp Hair as a Tool for Diabetes Mellitus Diagnosis: A Pilot Study,” *Anal. Chem.*, **2015**, 87, 7078–7084.
- 50) *W. D. Hoffmann and G. P. Jackson, “Forensic Mass Spectrometry,” *Ann. Rev. Anal. Chem.*, **2015**, 8, 419–440. free eprint: DOI: 10.1146/annurev-anchem-071114-040335.
- 49) * J. R. Almirall, G. P. Jackson, “Review: 27th ASMS Sanibel Conference on Mass Spectrometry—Security and Forensic Applications,” *J. Am. Soc. Mass Spectrom.*, **2015**, 26, 695–698.
- 48) A. H. B. Rashaid, P. B. Harrington, G. P. Jackson, “Amino Acid Composition of Human Scalp Hair as a Biometric Classifier and Investigative Lead,” *Anal. Methods*, **2015**, 7, 1707–1718.
- 47) *W. D. Hoffmann, F. Jin, G. P. Jackson, “Performance Evaluation of a Loeb-Eiber Mass Filter at 1 Torr,” *J. Am. Soc. Mass Spectrom. (Focus on Harsh Environment and Field-Portable Mass Spectrometry)*, **2015**, 26(2), 286–291.



- 46) *G. P. Jackson, Y. An, K. I. Konstantynova, A. H. B. Rashaid, "Biometrics from the Carbon Isotope Ratio Analysis of Amino Acids in Human Hair," *Sci. Justice (FIRMS 2013 Special Edition)*, **2015**, 55, 43–50.
- 45) W. D. Hoffmann and G. P. Jackson, "Charge Transfer Dissociation (CTD) Mass Spectrometry of Peptide Cations using Kiloelectronvolt Helium Cations," *J. Am. Soc. Mass Spectrom.*, **2014**, 25, 1939–1943.
- 44) M. M. Houck, K. Williams, G. P. Jackson, D. Gialamas, J. Salyards, T. McAdam, M. Sigman, S. Ballou, G. Herrin, J. Henry, V. Desiderio, "American Forensic Roundtable: Progress, Status, and the Future," *Forens. Sci. Policy Manage.*, **2014**, 5(3–4), 1–19.
- 43) A. H. B. Rashaid, G. P. Jackson, Peter B. Harrington, "Quantitation of Amino Acids in Human Hair by Trimethylsilyl Derivatization Gas Chromatography/Mass Spectrometry," *Enliven: Bio Anal. Techniques*, **2014**, 1(1), 1–12.
- 42) M. Zhang, G. P. Jackson, N. A. Kruse, J. Bowman, P. B. Harrington, "Determination of Aroclor 1260 in Soil Samples by GC/MS with Solid Phase Microextraction," *J. Sep. Sci.*, **2014**, 37(19), 2751–2756.
- 41) R. E. Deimler, T. T. Razunguzwa, B. R. Reschke, C. M. Walsh, M. J. Powell, and G. P. Jackson, "Direct Analysis of Drugs in Forensic Applications using Laser Ablation Electrospray Ionization-Tandem Mass Spectrometry (LAESI-MS/MS)," *Anal. Methods*, **2014**, 6(13), 4810–4817.
- 40) D. Harris, S. Hokanson, V. Miller, and G. P. Jackson, "Fragmentation Differences in the EI Spectra of Three Synthetic Cannabinoid Positional Isomers: JWH-250, JWH-302, and JWH-201," *Int. J. Mass Spectrom.*, **2014**, 368, 23–29.
- 39) N. A. Kruse, J. Bowman, D. Lopez, E. Migliore, G. P. Jackson, "Characterization of Polychlorinated Biphenyls, Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans in Soils and Sediments at the Portsmouth Gaseous Diffusion Plant, Ohio," *Chemosphere*, **2014**, 114, 93–100.
- 38) Z. Schwartz, Y. An, K. I. Konstantynova, G. P. Jackson, "Analysis of Household Ignitable Liquids and their Post-Combustion Weathered Residues using Compound-Specific Gas Chromatography-Combustion-Isotope Ratio Mass Spectrometry," *Forens. Sci. Int.*, **2013**, 233 (1–3), 365–373.
- 37) Y. An, Z. Schwartz, G. P. Jackson, " $\delta^{13}\text{C}$ Analysis of Amino Acids in Human Hair using Trimethylsilyl Derivatives and Gas Chromatography-Combustion-Isotope Ratio Mass Spectrometry," *Rapid Commun. Mass Spec.*, **2013**, 27(13), 1481–1489.

Ohio University

- 36) S. L. Cook, C. M. Zimmermann, D. Singer, M. Fedorova, R. Hoffmann, G. P. Jackson, "Comparison of CID, ETD, and Metastable Atom-Activated Dissociation (MAD) of Doubly- and Triply-Charged Phosphorylated Tau Peptides," *J. Mass Spectrom.*, **2012**, 47(6), 786–794.
- 35) X. Sun, P. Chen, S. L. Cook, G. P. Jackson, J. M. Harnly, P. B. Harrington, "Classification of Cultivation Locations of *Panax quinquefolius* L Samples using High Performance Liquid Chromatography–Electrospray Ionization Mass Spectrometry and Chemometric Analysis," *Anal. Chem.*, **2012**, 84, 3628–3624.
- 34) Z. Muccio, C. Wöckel, Y. An, G. P. Jackson, "Comparison of Bulk and Compound Specific $\delta^{13}\text{C}$ Isotope Ratio Analyses for the Discrimination Between Cannabis Samples," *J. Forens. Sci.*, **2012**, 57(3), 757–764.

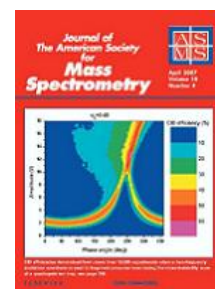
- 33) S. L. Cook, G. P. Jackson, “Metastable Atom-Activation Dissociation Mass Spectrometry of Phosphorylated and Sulfonated Peptides in Negative Ion Mode,” *J. Am. Soc. Mass Spectrom.*, **2011**, 22, 1088–1099.
- 32) S. L. Cook, G. P. Jackson, “Characterization of Tyrosine Nitration and Cysteine Nitrosylation Modifications by Metastable Atom-Activation Dissociation Mass Spectrometry,” *J. Am. Soc. Mass Spectrom.*, **2011**, 22, 221–232.
- 31) Z. Muccio, G. P. Jackson, “Simultaneous Identification and $\delta^{13}\text{C}$ Classification of Drugs Using GC with Concurrent Single Quadrupole and Isotope Ratio Mass Spectrometers,” *J. Forens. Sci.*, **2011**, 56(S1), S203–S209.
- 30) X. Sun, C. M. Zimmermann, G. P. Jackson, C. E. Bunker, P. B. Harrington, “Classification of Jet Fuels by Fuzzy Rule-Building Expert Systems Applied to Two-Way Data by Fast Gas Chromatography–Fast Scanning Quadrupole Ion Trap Mass Spectrometry,” *Talanta*, **2011**, 83, 1260–1268.
- 29) R. Marin, Y. Ahuja, G. P. Jackson, U. Laskay, R. N. Bose, “Potentially Deadly Carcinogenic Chromium Redox Cycle Involving Peroxochromium(IV) and Glutathione,” *J. Am. Chem. Soc.*, **2010**, 132, 10617–10619.
- 28) S. I. M. Paris, Ü. A. Laskay, Shengwen Liang, O. Pavlyuk, S. Tschirschwitz, P. Lönnecke, M. C. McMills, G. P. Jackson, J. L. Petersen, E. Hey-Hawkins, M. P. Jensen, “Manganese(II) Complexes of di-2-Pyridinylmethylene-1,2-diimine di-Schiff Base Ligands: Structures and Reactivity,” *Inorg. Chim. Acta.*, **2010**, 363(13), 3390–3398.
- 27) C. M. Zimmermann, G. P. Jackson, “Gas Chromatography Tandem Mass Spectrometry for Biomarkers of Alcohol Abuse in Human Hair,” *Ther. Drug Monit.*, **2010**, 32(2), 216–223.
- 26) #A. Baum, Y. Lu, Z. Muccio, G. P. Jackson, P. B. Harrington, “Differentiation between Origins of Extra Virgin Olive Oils by GC/C/IRMS using Principal Component Analysis, Linear Discriminant Analysis and Hierarchical Cluster Analysis,” *Spectroscopy*, **2010**, 25(2), 40–47.
- 25) S. L. Cook, O. L. Collin, G. P. Jackson, “Metastable Atom-Activated Dissociation Mass Spectrometry: Leucine/Isoleucine Differentiation and Ring Cleavage of Proline Residues,” *J. Mass Spectrom.*, **2009**, 44, 1211–1223.
- 24) *G. P. Jackson, “The Status of Forensic Science Degree Programs in the US,” *Forens. Sci. Pol. Manage.*, **2009**, 1, 2–9.
- 23) O. L. Collin, C. M. Zimmermann, G. P. Jackson, “Fast Gas Chromatography Negative Chemical Ionization Mass Spectrometry of Explosive Compounds,” *Int. J. Mass Spectrom.*, **2009**, 279, 93–99.
- 22) *Z. Muccio, G. P. Jackson, “Isotope Ratio Mass Spectrometry,” (MiniReview) *Analyst*, **2009**, 134, 213–222.
- 21) C. A. Zimmermann, Ü. A. Laskay, G. P. Jackson, “Analysis of Suspected Trace Human Remains from an Indoor Concrete Surface,” *J. Forens. Sci.*, **2008**, 53(6), 1437–1442.
- 20) Ü. A. Laskay, G. P. Jackson, “Resonance Excitation and Dynamic Collision Induced Dissociation in Quadrupole Ion Traps Using Higher-Order Excitation Frequencies,” *Rapid Commun. Mass Spectrom.*, **2008**, 22(15), 2342–2348.
- 19) Ü. A. Laskay, O. L. Collin, J. J. Hyland, Brad. Nichol, S. P. Pasilis, D. C. Duckworth, G. P. Jackson, “Dynamic Collision-Induced Dissociation (DCID) a Quadrupole Ion Trap Using a



- Two-Frequency Excitation Waveform: II. Effects of Excitation Frequency and Scan Rate,” *J. Am. Soc. Mass Spectrom.*, **2007**, 18, 2017–2025.
- 18) O. L. Collin, M. Beier, G. P. Jackson, “Dynamic Collision-Induced Dissociation (DCID) of Peptide Ions in a Quadrupole Ion Trap Mass Spectrometer,” *Anal. Chem.*, **2007**, 79, 5468–5473.
- 17) #Ü. A. Laskay, J. J. Hyland, G. P. Jackson, “Dynamic Collision-Induced Dissociation (DCID) a Quadrupole Ion Trap Using a Two-Frequency Excitation Waveform: I. Effects of Excitation Amplitude and Phase Angle,” *J. Am. Soc. Mass Spectrom.*, **2007**, 18, 749–761.
- 16) O. L. Collin, C. Niegel, K. E. DeRhodes, B. R. McCord, G. P. Jackson, “Fast-GC of Explosive Compounds Using a Pulsed Discharge Electron Capture Detector,” *J. Forensic Sci.*, **2006**, 51(4), 815–818.
- 15) G. P. Jackson, J. J. Hyland, Ü. A. Laskay, “Energetics and Efficiencies of Collision-Induced Dissociation Achieved During Mass Acquisition in a Quadrupole Ion Trap Mass Spectrometer,” *Rapid Commun. Mass Spectrom.*, **2005**, 19, 3555–3563.

Oak Ridge National Laboratory (Graduate Intern and Postdoctoral Associate)

- 14) G. P. Jackson, F. L. King, D. E. Goeringer, D. C. Duckworth, “Erratum: Gas-Phase Reactions of U^+ and U^{2+} with O_2 and H_2O in a Quadrupole Ion Trap,” *J. Phys. Chem. A*, **2004**, 108(11), 2138–2139.
- 13) G. P. Jackson, D. C. Duckworth, “Electrospray Mass Spectrometry of Undiluted Ionic Liquids,” *Chem Comm.*, **2004**, 5, 522–523.
- 12) G. P. Jackson, J. K. Gibson, D. C. Duckworth, “Gas-Phase Reactions of Bare and Ligated Uranium Ions with Sulfur Hexafluoride,” *J. Phys. Chem. A.*, **2004**, 108(6), 1042–1051.
- 11) *G. P. Jackson, F. L. King, D. C. Duckworth, “Efficient Polyatomic Interference Reduction in Plasma-Source Mass Spectrometry Via Collision Induced Dissociation,” *J. Anal. Atom. Spectrom.*, **2003**, 18(9), 1026–1032.
- 9) *G. P. Jackson, R. G. Haire, D. C. Duckworth, “A New Glow Discharge Source with Enhanced Ion Extraction for Small Non-Conductive Samples and Atmospheric Sampling,” *J. Anal. Atom. Spectrom.*, **2003**, 18(6), 665–669.
- 9) *A. Bogaerts, R. Gijbels, G.P. Jackson, “Modelling of a Millisecond Pulsed Glow Discharge: Investigation of the Afterpeak,” *J. Anal. Atom. Spectrom.*, **2003**, 18(6), 533–548.
- 8) G. P. Jackson, J. K. Gibson, D. C. Duckworth, “Gas-Phase Reactions of Bare and Oxo-Ligated Actinide and Lanthanide Cations with Pentamethylcyclopentadiene in a Quadrupole Ion Trap Mass Spectrometer,” *Int. J. Mass Spectrom.*, **2002**, 220, 419–441.
- 7) G. P. Jackson, F. L. King, D. E. Goeringer, D. C. Duckworth, “Gas-Phase Reactions of U^+ and U^{2+} with O_2 and H_2O in a Quadrupole Ion Trap,” *J. Phys. Chem. A.*, **2002**, 106, 7788–7794.
- 6) G. P. Jackson, F. L. King, D. E. Goeringer, D. C. Duckworth, “Collision-Induced Dissociation of Lanthanide Oxide Ions in Quadrupole Ion Traps: Effects of Bond Strength and Mass,” *Int. J. Mass Spectrom.*, **2002**, 216, 85–93.



West Virginia University (Ph.D. Research)

- 5) G. P. Jackson, F. L. King, “Bulk Plasma Properties in the Pulsed Glow Discharge,” *Spectrochimica Acta, Part B.*, **2003**, 58(8), 1417–1433.

*Short-listed for Elsevier/Spectrochimica Acta Atomic Spectroscopy Award for the most significant article(s) published in a volume (see editorial: *Spectrochim. Acta, Part B.*, **2005**, 60, 421–422).

- 4) G. P. Jackson, F. L. King, “Probing Excitation/Ionization Processes in Millisecond-Pulsed Glow Discharges in Argon Through the Addition of Nitrogen,” *Spectrochim. Acta, Part B.*, **2003**, 58(2), 185–209.

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- 3) G. P. Jackson, C. Lewis, S. K. Doorn, V. Majidi, F. L. King, “Spectral, Spatial and Temporal Diagnostics of a Millisecond Pulsed Glow Discharge: Argon Atom Metastables,” *Spectrochim. Acta, Part B.*, **2001**, 56(12), 2449–2464.
- 2) C. Lewis, G. P. Jackson, S. K. Doorn, D. Wayne, V. Majidi, F. L. King, “Spectral, Spatial and Temporal Diagnostics of a Millisecond Pulsed Glow Discharge: Copper Atom and Ion Signals,” *Spectrochim. Acta, Part B.*, **2001**, 56(5), 487–501.

Ohio University (M.S. Research)

- 1) G. P. Jackson, A. R. J. Andrews, “New Fast Screening Method for Organochlorine Pesticides in Water by Using Solid-Phase Microextraction with Fast Gas Chromatography and a Pulsed-Discharge Electron Capture Detector,” *Analyst*, **1998**, 123(5), 1085–1090.

REPORTS, BOOKS AND BOOK CHAPTERS

- 1) G. P. Jackson and Mark A. Barkett, “History of Forensic Mass Spectrometry” in *The Encyclopedia of Mass Spectrometry, Vol 9, Historical Perspectives Part A: The Development of Mass Spectrometry*, Ed. K. A. Neir, A. L. Yergy & P. J. Gale, Elsevier, Oxford, UK, **2015**. ISBN: 9780080438481.
- 2) Co-author of “Education and Standardization in Forensic Sciences” in *Science on Location: Forensic Science on the Move*, a report on an NSF-sponsored workshop titled “Strengthening Forensic Science through Connections with the Analytical Sciences” held in Arlington, VA, December 3 and 4, 2012 (PI: R. G. Cooks). The report, with recommendations, can be found here: <http://www.chem.purdue.edu/docs/ForensicWorkshopFinalReport.pdf>.

CONSULTING

- | | |
|------|---|
| 2018 | Consultant for DEA Special Testing, Dulles, VA. |
| 2018 | Consultant for Westchester County Forensic Laboratory, Valhalla, NY. |
| 2016 | Consultant (quoted) in <i>ASBMB Today</i> , a magazine published by the American Society for Biochemistry and Molecular Biology for the PNAS article, “Lifestyle chemistries from phones for individual profiling”: http://wildtypes.asbmb.org/2016/11/22/lifestyle-chemistries-of-phones/ . |
| 2016 | Consultant (quoted) in <i>Chemistry World</i> , the news magazine of the Royal Society of Chemistry for the <i>Analytical Chemistry</i> article, “Mass Spectrometry-Based Visualization of Molecules Associated with Human Habitats”: https://www.chemistryworld.com/news/chemisphere-maps-reveal-everyday-molecules-we-leave-behind/1017626.article . |

- 2016 Consultant for the Office of the Ohio Public Defender, Columbus, OH.
- 2016 Consultant for Northeastern Illinois Regional Crime Laboratory, Vernon Hills, IL.
- 2016 Consultant for ProPublica Inc., New York, NY.
- 2015 Consultant for Richard J. Hura, Attorney at Law, LLC, Canfield, OH.
- 2015 Consultant (voice talent) for FBI Law Enforcement Enterprise Portal (LEEP) marketing video, Clarksburg, WV.
- 2013 Consultant for IonSense Inc. Saugus, MA.
- 2012 Consultant for Vorys, Sater, Seymour and Pease LLP, Columbus, OH.
- 2011 Consultant for Nancy Grace Live, CNN/HLN.
- 2011 Consultant for Hartford, Dickey & King Co., LPA, East Palestine, OH.
- 2011 Consultant for ZIN Technologies, Inc., Middleburg Heights, OH.
- 2007–2017 Science Advisory Board Member for Protea Biosciences, Inc., Morgantown, WV.
- 2010 Consultant for Hartford, Dickey & King Co., LPA, East Palestine, OH.
- 2009 Consultant for U. Michigan Law School, Ann Arbor, MI.
- 2009 Consultant for Law Offices of Steven P. McCollum, PC, Waukegan, IL.
- 2008 Consultant for “House of the Unknown” for The History Channel. *Role:* Consultant for Evolution Film and Tape, Burbank, CA. Responsibilities included forensic investigation, lab analyses, and on-camera interpretation of a ‘stain’ suspected as being the decay products of a former patient at the former Athens Mental Health Center.
- 2006 Consultant for the Office of the Ohio Public Defender, Athens Branch, Athens, OH.
- 2006 Consultant for Mollica, Gall, Sloan & Sillery Co., LPA, Athens, OH.
- 2005 Consultant for Byron L Potts & Co., LPA, Columbus, OH.
- 2005 Horizons Companies, Columbus, OH. *Role:* Coordinated video shooting on Athens campus and performed demonstrations for a series of educational videos on Forensic Chemistry that will accompany McGraw-Hill textbooks to high schools throughout North America.

SESSIONS/WORKSHOPS CHAIRED AT CONFERENCES

- 2018 “Illicit Drugs and Clandestine Laboratories” at the Australia-New Zealand Forensic Science Society (ANZFSS) 24th International Symposium, Perth, Western Australia.
- 2018 “Ion Traps: What Do They Hold for the Future?” at the Ion Trap Workshop of the 66th ASMS Conference on Mass Spectrometry and Allied Topics, San Diego, CA.
- 2018 “Mass Spectrometry” at Spring SciX, Glasgow, Scotland.
- 2017 “Recent Advances in Oligosaccharide Analysis by Mass Spectrometry” at SciX 2017, Reno, NV.
- 2017 “Fundamentals of Ion Activation and Dissociation” at the 65th ASMS Conference on Mass Spectrometry and Allied Topics, Indianapolis, IN.
- 2016 “Interpretation Challenges in the Non-Biological Criminalistics Disciplines: Assessing the Path” at the 68th Annual Meeting of the American Academy of Forensic Sciences, Las Vegas, NV.

- 2015 “Analysis of Counterfeit Drugs and New Psychoactive Substances” at SciX Conference, Providence, RI.
- 2015 “A Trans-Spectral Celebration of the International Year of Light: From X-Rays to THz Spectroscopy” at SciX 2015, Providence, RI.
- 2015 “Mass Spectrometry Instrumentation at the Forefront of Technology as Miscible Tools for Forensic and Security Evidence” at the 63rd ASMS Conference on Mass Spectrometry and Allied Topics, St. Louis, MO.
- 2015 “Criminalistics II: Drug Chemistry” at the 67th Annual Meeting of the American Academy of Forensic Sciences, Orlando, FL.
- 2015 “Controlled Substances and Explosives” at the ASMS Sanibel Conference on Security and Forensic Applications of Mass Spectrometry, Clearwater Beach, FL.
- 2014 “Roundtable Discussion on Research Challenges in Forensics and Homeland Security” at the 62nd ASMS Conference on Mass Spectrometry and Allied Topics, Baltimore, MD.
- 2013 “Ion Structures, Energetics, and Ion Molecule Reaction Kinetics, in honor of Peter B. Armentrout’s 60th Birthday” at Fundamentals Interest Group Workshop at the 61st ASMS Conference on Mass Spectrometry and Allied Topics, Minneapolis, MN.
- 2012 “Ion Manipulation, Analysis and Detection: New Developments” at the 60th ASMS Conference on Mass Spectrometry and Allied Topics, Indianapolis, IN.
- 2009 “Mass Spectrometry: Instrumentation” at 37th Federation of Analytical Chemistry and Spectroscopy Societies Conference, Louisville, KY.
- 2007 “Developments in Ion Trap Mass Spectrometry” at the 55th ASMS Conference on Mass Spectrometry and Allied Topics, Indianapolis, IN.

TRAINING COMPLETED

- 2014 Completed 10-week FBI Citizens Academy, Clarksburg, WV.
- 2013 Completed 2-day forensic examination of pressure sensitive tape at the Forensic Science Initiative Continuing Education Program, Morgantown, WV (Instructor: Jennifer Smith).
- 2013 Completed 2-day forensic science accreditation course at the Forensic Science Initiative Continuing Education Program, Morgantown, WV (Instructor: Frank Fitzpatrick).
- 2009 Completed 1-day trace evidence: paint course at the Continuing Education for Forensic Professionals Program, Las Vegas, NV (Instructor: Scott Ryland).
- 2007 Completed 1-day expert witness testimony course at the Continuing Education for Forensic Professionals Program, Orlando, FL (Instructor: Max Houck).
- 2005 Completed 1-day forensic DNA workshop at the Mid-Atlantic Association of Forensic Sciences, Pittsburgh, PA.

INVITED PRESENTATIONS AT UNIVERSITIES AND NON-CONFERENCE VENUES

- 2018 Department of Chemistry and Chemical Biology, Indiana University Purdue University Indianapolis, Indianapolis, IN.
- Department of Chemistry, University of Georgia, Athens, GA.
- Department of Chemistry, University of Buffalo, Buffalo, NY.

- New Jersey Institute of Technology, Newark, NJ.
- 2016 Department of Chemistry, University of South Carolina, Columbia, SC.
 Department of Chemistry, North Carolina State University, Raleigh, NC.
 International Forensic Research Institute Symposium, Florida International University, Miami, FL.
 West Virginia Law Review Symposium, Morgantown, WV.
- 2015 Genetics and Developmental Biology Program, WVU, Morgantown, WV.
 Food and Drug Administration (FDA), Washington, DC.
 Roads Scholar Academy (WVU), Naples, FL.
 Duquesne University, Pittsburgh, PA.
- 2014 Georgetown University, Washington, DC.
 Society for Applied Spectroscopy (SAS) Speaker Tour, John Carroll University, Cleveland, OH.
 Department of Chemistry, Purdue University, West Lafayette, IN.
 Department of Chemistry, Indiana University, Bloomington, IN.
- 2013 Bennett Careers for Chemists Program, West Virginia University, Morgantown, WV.
 Department of Chemistry, Appalachia State University, Boone, NC.
- 2012 NSF Workshop on Strengthening Forensic Science Through Connections with Analytical Sciences, Arlington, VA.
 Department of Chemistry, Florida International University, Miami, FL.
- 2011 Alumni College, Ohio University, Athens, OH.
 Department of Chemistry, University of Cincinnati, Cincinnati, OH.
 Department of Chemistry, Otterbein University, Westerville, OH.
- 2010 Department of Chemistry and Biochemistry, Kent State University, Kent, OH.
 Department of Chemistry, University of Akron, Akron, OH.
 Pittsburgh Mass Spectrometry Discussion Group, Pittsburgh, PA.
 Pacific Northwest National Laboratory, Richmond, WA.
- 2009 FDA Forensic Chemistry Center, Cincinnati, OH.
 Department of Chemistry, Michigan State University, East Lansing, MI.
- 2008 Truman State University, Kirksville, MO.
- 2007 Department of Chemistry, University of North Texas, Denton, TX.
- 2006 Department of Chemistry, Penn State Erie, The Behrend College, Erie, PA.
 Department of Chemistry, West Virginia University, Morgantown, WV.

TEACHING

Classes taught at West Virginia University

- 2018 *FIS 401 Forensic Professional Communication.* 14 students.

- 2015–present *FIS 696/796 Graduate Seminar*. ~20 MS students each semester.
- 2015 *FIS 592C Biological and Chemical Evidence*. 4 LLM students in fall 2015.
- 2015–2018 *FIS 593G Arson and Explosives Analysis*. 5-13 students each spring.
- 2012–2018 *FIS 660 (Lecture and Lab) Advanced Forensic Chemistry and Laboratory* 5-12 MS students each fall.

Classes taught at Ohio University

Average professor rating for **Glen Jackson**, Fall 2004-2012 (17 courses): **4.3** (5 max).

Average professor rating for **all faculty** at the same level over the same period: **4.0** (5 max).

- 2010–2012 *CHEM 433 Spectrochemical Analysis*. ~20 Students in winter 2010, and winter 2011.
- 2010–2012 *CHEM 436 Spectrochemical Analysis Laboratory*. ~20 Students (in four lab sections) in winter quarter 2010 and 2011. Introduced new laboratories including ICP-MS and Fourier analysis (dry lab).
- 2010–2011 *CHEM 727 Advanced Spectrochemical Analysis*. 5–6 Students in fall quarter 2010 and 2011. This class is a graduate level class taken by most analytical chemistry graduate students.
- 2008–2009 *CHEM 487B Forensic Chemistry Laboratory*. ~20 Students in spring quarters of 2008 & 2009. This laboratory accompanies CHEM 487A and is also a capstone course for forensic chemistry majors.
- 2006–2012 *CHEM 487A/587 Forensic Chemistry*. 9–17 Students in spring quarters 2006, 2007, 2010, 2011 & 2012. This class is the capstone course for forensic chemistry majors.
- 2006–2012 *CHEM 893 Analytical Division Seminar*. 12–18 Students in winter quarter each year.
- 2006–2011 *CHEM 728 Advanced Chemical Separations*. 3–6 Students in winter quarter 2006 and 2008, fall 2009, winter 2011. This class is a graduate level class taken by most analytical chemistry graduate students.
- 2005–2011 *CHEM 730 Special topics in Analytical Chemistry: Mass Spectrometry*. 4–8 Students in spring 2005, winter 2007, spring 2009, fall 2011. This class is a graduate-level class taken by most analytical chemistry graduate students.
- 2004–2009 *CHEM 241 Quantitative Analysis*. 60–100 Students each fall quarter. I incorporated a new text book, the audience response system (ARS), peer instruction and on-line homework assignments through the Computer-Assisted Personalized Approach (CAPA).

External workshops taught

- 2015 Forensic & Investigative Science Outreach, Morgantown, WV.
Forensic GC/MS Workshop with EI Spectral Interpretation. Taught a three-day workshop to ~17 practicing forensic professionals.
- 2015 Las Vegas Metropolitan Crime Laboratory, Las Vegas, NV.
Forensic GC/MS course with EI Spectral Interpretation. Taught a three-day workshop to ~17 practicing forensic professionals.
- 2014 Houston Forensic Science Center, Houston, TX.

- Forensic Mass Spectrometry Workshop.*** Taught a two-day workshop including to 25 forensic professionals in the toxicology and controlled substances sections.
- 2014 Forensic & Investigative Science Outreach, Morgantown, WV.
Forensic GC-MS Workshop. Taught a three-day workshop including hands-on DART/MS demonstration and GC-MS demonstrations to 18 participants.
- 2013 Forensic Science Initiative's webinar series on the applications of forensic science for the legal professional, Morgantown, WV.
The Use of Mass Spectrometry in Forensic Science. Webinar with live question and answer session to more than 50 participants.
- 2011 Continuing Education for Forensic Professionals Program, Jackson Hole, WY.
Mass Spectrometry Workshop: Drug and Trace. Taught a two-day workshop to 25 practicing forensic professionals. ***Uncertainty of Measurements Workshop.*** Taught two ½-day workshops to a total of ~30 practicing forensic professionals.
- 2010 Continuing Education for Forensic Professionals Program, Boston, MA.
Mass Spectrometry Workshop 1: Drug and Trace. Taught a two-day workshop to 25 practicing forensic professionals. ***Mass Spectrometry Workshop 2: HPLC for Toxicology.*** Taught a one-day workshop to 25 practicing forensic professionals.
- 2009 Indiana State Police, Laboratory Division, Indianapolis, IN.
Mass Spectrometry Interpretation Workshop. Taught a three-day workshop to a total of 25 practicing forensic professionals in trace and drug units.
- 2009 Cedar Crest College Continuing Education Program, Allentown, PA.
Forensic Mass Spectrometry Workshop. (NIJ-funded). Taught a three-day workshop to 27 practicing forensic professionals.
- 2009 Continuing Education for Forensic Professionals Program, Las Vegas, NV.
Forensic Mass Spectrometry Workshop. (NIJ/FSI Funded). Taught a two-day workshop to 25 practicing forensic professionals.
- 2007 Continuing Education for Forensic Professionals Program, Orlando, FL.
Forensic Applications of Mass Spectrometry Workshop. (NIJ/FSI Funded). Taught two workshops to a total of 40 practicing forensic professionals.

SERVICE AND POSITIONS OF RESPONSIBILITY

Professional

- 2018 Chair, Ion Trap Interest Group and workshop coordinator, ASMS Conference on Mass Spectrometry and Allied Topics (>100 attendees).
- 2018 Program Chair for Mass Spectrometry Section, Spring SciX, Glasgow, Scotland.
- 2017-2019 Co-Chair, ASMS Ion Trap Interest Group and workshop coordinator, ASMS Conference on Mass Spectrometry and Allied Topics.
- 2017-present Member of the Governing Board of the Society for Applied Spectroscopy (SAS).
- 2017-present Secretary and Executive Committee Member of the FACSS Governing Board.
- 2016-2019 International Advisory Board member of *Analytical and Bioanalytical Chemistry*, Springer Publishers.
- 2016-present Program Co-Chair, Mass Spectrometry Section, SciX Conference. Responsibility includes the organization of 5-8 oral sessions and the selection of poster abstracts.

- 2016-present Founding Co-Editor-in-Chief of *Forensic Chemistry*; a traditional journal published by Elsevier (with Prof. José R. Almirall).
- 2015 Chair, External Evaluation Committee, IUPUI Forensic Chemistry Program.
- 2015 Program Chair, SciX Conference (~1200 attendees [2nd highest attendance ever], ~450 speakers, ~200 posters), Providence, RI.
- 2015 Co-organizer and Program Co-Chair (with José Almirall) ASMS Sanibel Conference on Forensic and Security Applications of Mass Spectrometry (150 attendees, ~25 speakers, ~50 posters) Clearwater Beach, FL.
- 2014-2017 Member, NIST Controlled Substances OSAC Subcommittee.
- 2014-present Chair, Cheat Lake Elementary Science Fair Committee (~100 student posters).
- 2014 Ad Hoc Reviewer for NIJ Graduate Fellowship Award.
- 2014 Awards Chair, SciX Conference (~9 award sessions).
- 2014-2015 Chair, Security and Forensics Interest Group and workshop coordinator, ASMS Conference on Mass Spectrometry and Allied Topics (>100 attendees).
- 2013 Member FACSS Innovation Award Committee and FACSS Poster Award Committee for SciX Conference, 2013.
- 2013 Review Panel, NASA.
- 2013 Chair, ASMS Asilomar Conference Committee (Member 2012-2014).
- 2013 Chair, Fundamentals Interest Group, ASMS Conference on Mass Spectrometry and Allied Topics.
- 2012 Ad Hoc Reviewer, NIH.
- 2011 Ad Hoc Reviewer for NOW (Netherlands Organization of Scientific Research).
- 2011 Ad Hoc Reviewer for Israeli Science Foundation.
- 2010 NSF Exhibitor at the First USA Science and Engineering Festival in Washington, DC, Oct 23-24, 2010.
- 2009 Reviewer, *Forensic Chemistry* by Suzanne Bell, 1st Ed. Pearson Prentice Hall, Upper Saddle River, NY, 2006.
- 2009, 2012 Review Panel, NSF.
- 2007 Judge, State Science Fair, Columbus, OH.
- 2007-2011 Reviewer, Strategic Environmental Research and Development Program (SERDP) funding agency.
- 2005-Present Ad Hoc Reviewer, NSF.
- 2002-Present Ad Hoc Reviewer for the following journals: Analytical Chemistry, Chem Phys Chem, Energy and Fuels, Food Control, Forensic Science International, Forensic Science Policy and Management, International Journal of Analytical Chemistry, International Journal of Mass Spectrometry, International Journal of Molecular Science, Journal of the American Society for Mass Spectrometry, Journal of Analytical Atomic Spectroscopy, Journal of Analytical and BioAnalytical Chemistry, Journal of Food and Nutritional Science, Journal of Proteome Research, New Journal of Chemistry, Rapid Communications in Mass Spectrometry, Science and Justice.

- 2006 Accuracy Reviewer, *Forensic Chemistry* by Suzanne Bell, 1st Ed. Pearson Prentice Hall, Upper Saddle River, NY, 2006.
- 2006 Reviewer, *Exploring Chemical Analysis* by Daniel C. Harris, 3rd Ed. W. H. Freeman, New York, NY, 2005.

External Reviewer of Grants and T&P dossiers for:

Illinois State University, Indiana University Purdue University Indianapolis, John D. and Catherine T. MacArthur Foundation, Louisiana State University, Ohio State University, University of California, San Diego, U. South Florida, State University of New York Albany, Vanderbilt University, Virginia Commonwealth University.

West Virginia University

- 2016-2019 FIS Faculty evaluation committee (chair).
- 2016-17 FIS Search committee (for department chair).
- 2016-17 ECAS Graduate curriculum committee.
- 2015-17 Benedum distinguished scholar award selection committee.
- 2015-16 ECAS outstanding researcher and outreach committee.
- 2014 Review committee for the Eberly Family Professorship in Physics and Astronomy.
- 2014-2016 FIS Graduate committee.
- 2013-2015 FIS Faculty evaluation committee (Chair 2014).
- 2013-present Dean's advisory committee.

Ohio University Departmental

- 2009-2011 Departmental representative for quarters-to-semesters (Q2S) transition. Responsible for completing conversion of the graduate-level curriculum using Ohio Curriculum Enhancement and Approval Network (OCEAN) user interface.
- 2009-2012 Director BS forensic chemistry program.
- 2009-2010 Center of excellence committee.
- 2009-2012 Student seminars.
- 2009-2012 Research committee.
- 2009-2012 Graduate committee.
- 2009-2012 Instrument committee (Chair).
- 2008-2012 Graduate recruitment committee, World Wide Web committee.
- 2004-2012 Holder, DEA license and state pharmacy license for forensic chemistry drug safe.
- 2004-2012 Curriculum committee, instrument committee.
- 2006-2008 World Wide Web committee.
- 2004-2007 Forensic chemistry faculty search committee, Forensic Science Education and Program Accreditation Commission (FEPAC) accreditation committee.
- 2004-2005 Graduate recruitment committee, space committee.

Ohio University College/University

2011-2012	University Council for Research, Scholarship, and Creative Activity.
2011-2012	Chair, Environmental Studies Advisory Board.
2010	Young Ohio Scholars: Co-organized DNA workshop for middle-school-aged visitors, Athens, OH (Organizers: Vijay Nadella, Genomics Facility and Sara Wyatt, Dept. Plant Biology).
2010-2012	College P&T Committee.
2009	Mock Interviewer for Fulbright Applicant.
2009-2010	Member and CAS representative on Space Management Advisory Committee (SMAC).
2007-2008	Member, Learning Community on the Audience Response System (ARS). Also participated in the production of education videos for the ARS.
2005-2008	Ad Hoc Chair, University Judiciary Hearings.
2007	Member, Committee for Omnibus Publication for Resources at OHIO, Coalition for Enhancing Undergraduate Success (CEUGS).
2004-Present	Member, Advisory Board for Master of Science in Environmental Studies (MSES) Program.

RESEARCHERS SUPERVISED***Thesis/Dissertation Committees Chaired (DNG means did not graduate)***

2018-present	Caitlyn Lear (WVU, M.S. Forensic & Investigative Science)
2018-present	Thomas Hakey (WVU, Ph.D. Chemistry)
2017-present	Tyler Davidson (WVU, Ph.D. Forensic & Investigative Science)
2016-present	Zachary Sasiene (WVU, Ph.D. Chemistry)
2016-present	Mario Balapuwaduge Praneeth Mendis (WVU, Ph.D. Chemistry)
2016-present	Halle Edwards (WVU, Ph.D. Chemistry)
2015-2017	Korina Menking-Hoggatt (WVU, M.S. Forensic & Investigative Science)
2015-2017	Ashley Cochran (WVU, M.S. Forensic & Investigative Science)
2015-2017	Tyler Davidson (WVU, M.S. Forensic & Investigative Science)
2014-2018	Taylor Krivenki (WVU, Chemistry, DNG)
2013-present	Mayara P. V. de Matos (WVU, Ph.D. Biology)
2013-2016	Bohui Lv (WVU, Chemistry, DNG)
2012-2017	Pengfei Li (WVU, Ph.D. Chemistry)
2009-2014	Feng Jin (WVU, Ph.D. Chemistry)
2012-2014	Kateryna I. Konstantynova (WVU, Chemistry, DNG)
2010-2012	Ayat H. Bani-Rashaid (Ohio U, Ph.D. Chemistry and Biochemistry). Student transferred to Prof. Harrington in July 2012
2010-2012	Mengliang Zhang (Ohio U, Ph.D. Chemistry and Biochemistry) Student transferred to Prof. Harrington in July 2012
2009-2014	Robert E. Deimler (WVU, Ph.D. Chemistry)
2008-2013	Yan An (Ohio U, Ph.D. Chemistry and Biochemistry)
2007-2010	Zeland Schwartz (nee Muccio) (Ohio U, Ph.D. Chemistry and Biochemistry)

2007-2009	Derrell L. Hood (Ohio U, M.S. Chemistry and Biochemistry)
2006-2012	Shannon L. Cook (Ohio U, Ph.D. Chemistry and Biochemistry)
2005-2010	Carolyn M. Zimmermann (Ohio U, Ph.D. Chemistry and Biochemistry)
2004-2008	Ünige A. Laskay (Ohio U, Ph.D. Chemistry and Biochemistry)
2004-2007	Olivier L. Collin (Ohio U, Ph.D. Chemistry and Biochemistry). Oliver transferred to my group after his first two years of study

Thesis/Dissertation Committees Served

Duquesne University (as External Committee Member)

2016 Michelle Peters (MS Forensic Science)

West Virginia University, Current

Chong Li (Ph.D. Chemistry)
 Nandhini Ranganathan (Ph.D. Chemistry)
 Maryssa Beasley (Ph.D. Chemistry)
 Sandra Majuta (Ph.D. Chemistry)
 Kristin Kelly (Ph.D. Chemistry)
 Stephen Raso (Ph.D. Chemistry)
 Yan Pan (Ph.D. Chemistry)
 Xiaqing Xu (Ph.D. Chemistry)

Completed

2017 Mahdiar Khakinejad (Ph.D. Chemistry)
 2017 Megan Maurer (Ph.D. Chemistry)
 2017 Brittany Yeager (Ph.D. Chemistry)
 2016 Yilin Zhang (Ph.D. Chemistry)
 2015 Lee Greenawald (Ph.D. Chemistry)
 2013 Ronald Balaba (Ph.D. Chemistry)
 2013 Stephanie Martindale (Ph.D. Chemistry)
 2013 Megan R. DeJesus (Ph.D. Chemistry)
 2013 Holly A. McCall (Ph.D. Chemistry)
 2013 Amanda Cadau (MS Forensic & Investigative Science)

Ohio University

Completed

2014 Ayat Bani-Rashaid (Ph.D. Chemistry and Biochemistry)
 2014 Mengliang Zhang (Ph.D. Chemistry and Biochemistry)
 2013 Ying Zhong (Ph.D. Electrical Engineering and Computer Science)
 2012 Zhixin Miao (Ph.D. Chemistry and Biochemistry)
 2012 Yun Zhang (Ph.D. Chemistry and Biochemistry)
 2012 Zhanfeng Xu (Ph.D. Chemistry and Biochemistry)
 2012 Thanuja Malikarachchi (MS Civil Engineering)
 2012 Xiaobo Sun (Ph.D. Chemistry and Biochemistry)
 2011 K. Suzanne George (Ph.D. Chemistry and Biochemistry)
 2011 Weiying Lu (Ph.D. Chemistry and Biochemistry)
 2011 Oksana Pavlyuk (Ph.D. Chemistry and Biochemistry)
 2011 Jourdan Seimer (MS Environmental Studies)
 2010 Adam Jacoby (Ph.D. Chemistry and Biochemistry)

2010	Elroy Fernandes (Ph.D. Chemistry and Biochemistry)
2010	Lauren Armeni (MS Environmental Studies)
2010	George Harrison (Ph.D. Chemistry and Biochemistry)
2010	Lei Wang (Ph.D. Chemistry and Biochemistry)
2010	Nicholas Smeenk (M.S. Environmental Studies)
2010	Zack Lustgarten (M.S. Environmental Studies)
2009	Gheorge Bota (Ph.D. Chemical Engineering)
2009	Yeliz Celik (Ph.D. Physics and Astronomy)
2009	Krystian Jasinski (Ph.D. Chemistry and Biochemistry)
2009	Yao Lu (Ph.D. Chemistry and Biochemistry)
2008	Ping Chen (Ph.D. Chemistry and Biochemistry)
2008	Mahmoud Emera (Ph.D. Chemistry and Biochemistry)
2008	Xiaoyan Huang (Ph.D. Chemistry and Biochemistry)
2008	Csaba Laszlo (Ph.D. Chemistry and Biochemistry)
2007	Burzin Khajotia (M.S. Chemical Engineering)
2006	Qingzhou Cui (Ph.D. Chemistry and Biochemistry)
2004	Gheorge M. Bota (M.S. Chemistry and Biochemistry)
2004	Sandra Bishop (Ph.D. Chemistry and Biochemistry)
2004	Libo Cao (Ph.D. Chemistry and Biochemistry)

Undergraduate Researchers Directed

2018-present	Samantha Mehnert
2017-present	Sarah Chaffman
2017-present	Isaac Willis
2017	Emily Gleco
2017	Sierra Stinson
2016-2017	Gabriel Walkup (Research Technician at Evonic)
2015-2016	Olivia Dodd
2015-2016	Tyler Williams (currently pursuing Ph.D. at Clemson U.)
2014-2015	Ashley Cochran (currently at RTI, obtained M.S. at WVU)
2014-2015	Heather Birks (obtained M.S. at VCU)
2014-2014	Clayton Johnson
2011-2012	Rosemary Kanters
2010-2012	Ashley March
2009-2011	Daniel Cobau (currently at Ohio University College of Osteopathic Medicine)
2008-2010	Mark Barkett (currently at Dover Chemical, Ohio)
2008-2010	Samantha Blake (completed M.S. at North Carolina State U.)
2008-2010	Christine Fisher (currently Ph.D. student at Purdue U.)
2007-2009	Megan Wenning, (SEA, PURF 2007, joint with Lojek, currently a DNA analyst at BCII-London, OH)
2007-2009	Lisa Lojek, (PURF 2007, joint with Wenning)
2006-2008	Chris Kanalas, (PURF 2006)
2006-2006	Bradley Nichol
2006-2006	Aaron Jarrel (currently working for Metler Toledo in Germany)
2005-2006	Jen Hyland, (1 st Place Student Research and Creative Activity Fair 2006)
2004-2006	Kate DeRhodes, (PURF 2004, 1 st Place Student Research and Creative Activity Fair 2005)

Visiting Scholars Directed

2018 Zilin Fan, Visiting Scholar, Tianjin Fire Research Institute of MPS, China
2016 Dr. David Ropartz, Visiting Scholar, INRA, France
2015 Iris Kreft, Student Intern, Avans University, ND
2012 Madlen Sander, Visiting Scholar, U. Leipzig
2009 Claudia Wöckel, Visiting Scholar, U. Leipzig
2006 Matthias Beier, Visiting Scholar, U. Leipzig
2005 Claudia Niegel, Visiting Scholar, U. Leipzig

CONFERENCE PRESENTATIONS (PRESENTER LISTED FIRST)**Denotes Invited Lecture****Work conducted at West Virginia University***

- 151) *G. P. Jackson, J. T. Davidson “MS Comparator: Ultra-Precise Spectral Comparisons” at the Forensic and Homeland Security Workshop of the 66th ASMS Conference on Mass Spectrometry and Allied Topics, San Diego, CA, June 2018. (Oral)
- 150) M. P. V. Matos, R. M. Mohr, G. P. Jackson “Identification of Carrion Sources from the Stable Isotope Analysis of Larvae, Pupae, and Adult Calliphora Vicina Blow Flies” at the 66th ASMS Conference on Mass Spectrometry and Allied Topics, San Diego, CA, June 2018. (Oral)
- 149) P. M. Mendis, Z. J. Sasiene, D. Ropartz, H. Rogniaux, G. P. Jackson “Fundamentals of Charge Transfer Dissociation (CTD) of Oligosaccharides” at the 66th ASMS Conference on Mass Spectrometry and Allied Topics, San Diego, CA, June 2018. (Poster)
- 148) D. Ropartz, P. Li, G. P. Jackson, H. Rogniaux “Radical-Initiated Fragmentation of Complex Polysulfated Anions by Negative Polarity Helium Charge Transfer Dissociation Tandem MS” at the 66th ASMS Conference on Mass Spectrometry and Allied Topics, San Diego, CA, June 2018. (Poster)
- 147) H. M. Edwards, M. P. V. Matos, G. P. Jackson “Biometrics from Isotope Ratio Analysis of Human Fingernails ” at the 66th ASMS Conference on Mass Spectrometry and Allied Topics, San Diego, CA, June 2018. (Poster)
- 146) J. T. Davidson, Z. J. Sasiene, Y. Abiedalla, C. R. Clark, G. P. Jackson “Identification of a Novel Fragmentation Pathway of Synthetic Cathinones” at the 66th ASMS Conference on Mass Spectrometry and Allied Topics, San Diego, CA, June 2018. (Poster)
- 145) H. Santos, T. J. Davidson, J. Cox, G. P. Jackson, W. Romao, L. E. Arroyo “Potential Applications to New Psychoactive Substances Identification in Oral Fluid and Damiana leaf (*Turnera diffusa*) by DART-MS/MS and LC-MS/MS” at the 66th ASMS Conference on Mass Spectrometry and Allied Topics, San Diego, CA, June 2018. (Poster)
- 144) Z. J. Sasiene, P. M. Mendis, G. P. Jackson “Structural Characterization of Sulfated Oligosaccharides by Charge Transfer Dissociation (CTD) Mass Spectrometry” at the 66th ASMS Conference on Mass Spectrometry and Allied Topics, San Diego, CA, June 2018. (Poster)
- 143) *G. P. Jackson, Z. J. Sasiene, P. M. Mendis, D. Ropartz, P. Li, H. Rogniaux, “Comprehensive Characterization of Glycans, Peptides and Lipids using a New Approach to Tandem Mass Spectrometry” at the 1st Spring SciX Meeting, Glasgow, Scotland, April, 2018. (Oral)
- 142) G. P. Jackson, M. P. V. Matos, R. M. Mohr “Using Stable Isotopes to Determine Class Characteristics of Human Hair Donors and the Carrion Source of Blow Flies” at the 70th Meeting of the American Academy of Forensic Sciences Seattle, WA, Feb 2018. (Poster)
- 141) J. T. Davidson, G. P. Jackson “Quantifying the Uncertainty of Measurement for Gas Chromatography/Mass Spectrometry (GC/MS) Acceptance Criteria” at the 70th Meeting of the American Academy of Forensic Sciences Seattle, WA, Feb 2018. (Poster)
- 140) *G. P. Jackson, K. Menking-Hoggatt, T. Krivenki “On-Site GC/MS Analysis of Drugs: Reasoning, Reliability and Return on Investment” at SciX Conference, Reno, NV, Oct 2017. (Oral)
- 139) Z. J. Sasiene, P. M. Mendis, G. P. Jackson, “Charge Transfer Dissociation (CTD) Mass Spectrometry of Sulfated Oligosaccharides” at SciX Conference, Reno, NV, Oct 2017. (Poster)

- 138) M. K. dos Santos, E. Gleco, G. P. Jackson, R. P. Limberger, J. Cox, L. E. Arroyo, "Screening and Confirmation of Stimulants Drugs in Seized Dietary Supplements by DART-MS and Liquid Chromatography Triple Quadrupole Mass Spectrometry (LC-QQQ-MS)" at the Midwestern Association of Forensic Sciences Meeting, Cincinnati, OH, Sep 2017. (Poster)
- 137) S. Khodjaniyazova, M. Nazari, M. P. V. Matos, G. P. Jackson, D. C. Muddiman "Quantifying Spectral Accuracy of the Orbitrap Mass Analyzer by Comparison with the Isotope Ratio Mass Spectrometry" at the 65th ASMS Conference on Mass Spectrometry and Allied Topics, Indianapolis, IN Jun 2017. (Poster)
- 136) G. P. Jackson, P. Li, D. Ropartz, H. Rogniaux "Charge Transfer Dissociation (CTD): High Energy Radical Fragmentation of Glycans, Proteins and Peptides" at the 65th ASMS Conference on Mass Spectrometry and Allied Topics, Indianapolis, IN Jun 2017. (Oral)
- 135) *G. P. Jackson, K. Menking-Hoggatt, T. Krivenki "Portable Forensic Mass Spectrometry" at the Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, Chicago, IL, Apr 2017. (Oral)
- 134) *G. P. Jackson, R. Mohr, M. P. V. Matos, M. E. Engel "Forensic Attribution using Stable Isotopes: Hairs to Humans and Insects to Carrion" at the 253rd American Chemical Society National Meeting, San Francisco, CA, Mar 2017. (Oral)
- 133) A. Cochran, G. P. Jackson, "The Analysis of the Fatty Acid Content of Fingerprint Residues Using Gas Chromatography/Mass Spectrometry (GC/MS)" at the 69th Annual Meeting of the American Academy of Forensic Sciences, New Orleans, LA, Feb 2017. (Poster)
- 132) S.M. Stinson, G. M. Walkup, G. P. Jackson, "Do Hygiene Products Cause False Positives in Arson Investigations?" at the 69th Annual Meeting of the American Academy of Forensic Sciences, New Orleans, LA, Feb 2017. (Poster)
- 131) J. T. Davidson, G. P. Jackson, "The Analysis of 2,5-Dimethoxy-N-(N-methoxybenzyl) phenethylamine (NBOMe) Isomers using Traditional and Fast Gas Chromatography/Mass Spectrometry (GC/MS)" at the 69th Annual Meeting of the American Academy of Forensic Sciences, New Orleans, LA, 2017. (Poster)
- 130) M. P. V. Matos, M. Engel, G. P. Jackson, "Compound-Specific Isotope Analyses of Hair Samples: Discrimination that goes Beyond Dietary Factors" at the joint meeting of the Australia New Zealand Forensic Science Symposium (ANZFSS) and the Forensic Isotope Ratio Mass Spectrometry Network (FIRMS), Auckland, NZ, Oct 2016. (Poster)
- 129) G. P. Jackson, M. P. V. Matos, R. Mohr "Identification of Carrion from Blowflies" at the joint meeting of the Australia New Zealand Forensic Science Symposium (ANZFSS) and the Forensic Isotope Ratio Mass Spectrometry Network (FIRMS), Auckland, NZ, Oct 2016. (Oral)
- 128) P. Li, G. P. Jackson, "Charge Transfer Dissociation (CTD) of Phospholipids: Influence of Head Group and Adducting Ions on Fragmentation" at the ASMS Asilomar Conference on Mass Spectrometry and Ion Mobility, Asilomar, CA, Oct 2016. (Poster)
- 127) G. P. Jackson, I. Kreft, P. Li, D. Ropartz, H. Rogniaux "Development of Charge Transfer Dissociation (CTD) for Biological Ions" at the ASMS Asilomar Conference on Mass Spectrometry and Ion Mobility, CA, Oct 2016. (Oral)
- 126) M. P. V. Matos, M. E. Engel, G. P. Jackson, "Origin Determination of Eastern Oyster (*Crassostrea virginica*) by Combination of Heavy Metal Concentrations, Whole-Body Bulk and Compound Specific Isotope Analyses" 64th ASMS Conference on Mass Spectrometry and Allied Topics, San Antonio, TX, Jun 2016. (Poster)

- 125) G. C. Donohoe, P. Li, G. P. Jackson, S. J. Valentine, "Exploring the Combination of Helium Charge Transfer Dissociation (He-CTD) and Hydrogen Deuterium Exchange Tandem Mass Spectrometry (HDX-MS/MSⁿ)" 64th ASMS Conference on Mass Spectrometry and Allied Topics, San Antonio, TX, Jun 2016. (Poster)
- 124) P. Li, G. P. Jackson, "Charge Transfer Dissociation (CTD) of Phosphocholines: Gas-Phase Ion/Ion Reactions between Helium Cations and Phospholipid Cations" 64th ASMS Conference on Mass Spectrometry and Allied Topics, San Antonio, TX, Jun 2016. (Poster)
- 123) B. Lv, W. D. Hoffmann, G. P. Jackson, "CBD/THC Quantitative Analysis with Direct Analysis in Real Time-Mass Spectrometry (DART-MS)" 64th ASMS Conference on Mass Spectrometry and Allied Topics, San Antonio, TX, Jun 2016. (Poster)
- 122) *G. P. Jackson and F. M. Fernandez, "Plenary Workshop: Forensic Mass Spectrometry" at the 64th ASMS Conference on Mass Spectrometry and Allied Topics, San Antonio, TX, Jun 2016. (Oral)
- 121) G. P. Jackson, I. Kreft, P. Li, D. Ropartz, H. Rogniaux "Charge Transfer Dissociation (CTD): High Energy Radical Fragmentation of Glycans, Peptides and Lipids" at the 64th ASMS Conference on Mass Spectrometry and Allied Topics, San Antonio, TX, Jun 2016. (Oral)
- 120) G. P. Jackson, "The Future of Forensic Instrumental Methods of Analysis" at the 68th Annual Meeting of the American Academy of Forensic Sciences, Las Vegas, NV, Feb 2016. (Oral)
- 119) A. Cochran, H. Birks, T. Williams, G. P. Jackson, "The Surprising Effect of Temperature on the Weathering of Gasoline" at the 68th Annual Meeting of the American Academy of Forensic Sciences, Las Vegas, NV, Feb 2016. (Oral)
- 118) T. Williams, J. T. Miller, G. P. Jackson, "The Prevalence of Promethazine Dimerization in Forensic Samples of Purple Drank" at the 68th Annual Meeting of the American Academy of Forensic Sciences, Las Vegas, NV, Feb 2016. (Oral)
- 117) A. Cochran, H. Birks, T. Williams, G. P. Jackson, "The Surprising Effect of Temperature on the Weathering of Gasoline" SciX Conference, Providence, RI, Oct 2015. (Poster)
- 116) P. Li, W. D. Hoffmann, G. P. Jackson, "Multistage Mass Spectrometry of Phospholipids Using Collision-Induced Dissociation (CID) and Metastable Atom-Activated Dissociation (MAD)" SciX Conference, Providence, RI, Oct 2015. (Poster)
- 115) *W. D. Hoffmann, G. P. Jackson, "Distinguishing Isobaric Drugs using Online Derivatization and Direct Analysis in Real Time (DART)" SciX Conference, Providence, RI, Oct 2015. (Oral)
- 114) *W. D. Hoffmann, G. P. Jackson, "Isobaric Drug Analysis using Direct Analysis in Real Time (DART) and Hydrogen/Deuterium Exchange" ACS National Meeting, Boston, MA, Aug 2015. (Oral)
- 113) W. D. Hoffmann, G. P. Jackson, "Isobaric Drug Analyses using Hydrogen/Deuterium Exchange and CID" 63rd ASMS Conference on Mass Spectrometry and Allied Topics, St. Louis, MO, June 2015. (Oral)
- 112) G. P. Jackson, W. D. Hoffmann "Charge Transfer Dissociation (CTD) Mass Spectrometry" 63rd ASMS Conference on Mass Spectrometry and Allied Topics, St. Louis, MO, June 2015. (Oral)
- 111) P. Li, W. D. Hoffmann, G. P. Jackson "Gas-Phase Fragmentation Mechanisms of Phosphocholines using Metastable Atom-Activated Dissociation (MAD) with Selected Ion Ejection" 63rd ASMS Conference on Mass Spectrometry and Allied Topics, St. Louis, MO, June 2015. (Poster)

- 110) *G. P. Jackson, K. I. Konstantynova, M. P. V. de Matos, R. Mohr "Forensic Source Attribution using Stable Isotopes: Hairs to Humans and Insects to Carrion", Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, New Orleans, LA, Mar 2015. (Oral)
- 109) G. P. Jackson, K. I. Konstantynova, M. P. V. de Matos, R. Mohr "Forensic Source Attribution using Stable Isotopes: Hairs to Humans and Insects to Carrion", 67th Meeting of the American Academy of Forensic Sciences, Orlando, FL, Feb 2015. (Oral)
- 108) *G. P. Jackson "Linking Insects to Humans and Hair to Human Phenotypes using Stable Isotopes", ASMS Sanibel Conference on Security and Forensic Applications of Mass Spectrometry, Clearwater Beach, FL, Jan 2015. (Oral)
- 107) *G. P. Jackson, R. Mohr, K. I. Konstantynova "Forensic attribution using stable isotopes: hairs to humans and insects to carrion", SciX Conference, Reno, NV, Oct 2014. (Oral)
- 106) W. D. Hoffmann, F. Jin, G. P. Jackson, "A Loeb-Eiber Mass Filter for Miniature Mass Spectrometry", 62nd ASMS Conference on Mass Spectrometry and Allied Topics, Baltimore, MD, June 2014. (Oral)
- 105) K.I. Konstantynova, R. Mohr, G. P. Jackson, "Identification of flesh (carrion) source from the stable isotope analysis of blow fly larvae, pupae and adult flies", 66th Meeting of the American Academy of Forensic Sciences, Seattle, WA, Feb 2014. (Poster)
- 104) *G. P. Jackson, "Metastable Atom-Activated Dissociation: Status and Outlook" ASMS Sanibel Conference on Ion Activation: Fundamentals, Applications and New Frontiers, Clearwater Beach, FL, Jan 2014. (Oral)
- 103) G. P. Jackson, Y. An, K. Konstantynova "Biometrics from the Stable Isotope Analysis of Amino Acids in Human Hair" FACSS Innovation Award Session, SciX Conference, Milwaukee, WI, Oct 2013. (Oral)
- 102) *G. P. Jackson, F. Jin, W. D. Hoffman, G. F. Verbeck "Development of a Loeb-Eiber Mass Filter for Portable Mass Spectrometry" 9th Harsh Environment Mass Spectrometry Workshop (HEMS), St. Pete Beach, FL, Sept 2013. (Oral)
- 101) G. P. Jackson, Y. An, K. Konstantynova, "Biometrics from the $\delta^{13}\text{C}$ Values of Amino Acids in Human Hair", 5th Forensic Isotope Ratio Mass Spectrometry (FIRMS) Network Conference, Montréal, Canada, Sept 2013. (Oral)
- 100) M. Zhang, P. B. Harrington, N. Kruse, J. Bowman, S. Lammert, E. Lee, G. P. Jackson, "Development of an Expedited Field Method for PCBs in Sediments and Soils using Portable GC/MS." 61st ASMS Conference on Mass Spectrometry and Allied Topics, Minneapolis, MN, June 2013. (Poster)
- 99) W. D. Hoffmann, R. E. Deimler, M. Sander, G P. Jackson, "Metastable Atom-Activated Dissociation of Phosphocoline Lipids in Protonated, Sodiated, and Potassiated Forms." 61st ASMS Conference on Mass Spectrometry and Allied Topics, Minneapolis, MN, June 2013. (Poster)
- 98) F. Jin, W. D. Hoffmann, G. F. Verbeck, G. P. Jackson, "Development of a Portable Mass Spectrometer for Operation at 1 Torr ." 61st ASMS Conference on Mass Spectrometry and Allied Topics, Minneapolis, MN, June 2013. (Poster)
- 97) B. Deimler, M. Sander, W. D. Hoffmann, G. P. Jackson, "Analysis of Phosphocholines using Metastable Atom Activated Dissociation Mass Spectrometry (MAD-MS) and Collision Induced Dissociation (CID)." 61st ASMS Conference on Mass Spectrometry and Allied Topics, Minneapolis, MN, June 2013. (Poster)

- 96) Y. An, Ayat Bani Rashaid, G. P. Jackson, "Bulk versus LC-IRMS amino-acid-specific isotopic analysis of human hair" 61st ASMS Conference on Mass Spectrometry and Allied Topics, Minneapolis, MN, June 2013. (Poster)
- 95) *G. P. Jackson, R. E. Deimler, T. Razunguzwa, B. Reschke and M. Powell "Direct Analysis of Forensic Samples by Laser Ablation Electrospray Tandem Mass Spectrometry (LAESITM-MS/MS)" SciX 2012, 39th FACSS Conference, Kansas City, MO, Oct 2012. (Oral)

Work conducted at Ohio University

- 94) Y. An, G. P. Jackson, "A Bulk versus Amino-acid-specific isotopic analysis of Human Hair" 60th ASMS Conference on Mass Spectrometry and Allied Topics, Vancouver, BC, June 2012. (Poster)
- 93) G. P. Jackson, R. E. Deimler, T. Razunguzwa, B. Reschke and M. Powell "Direct Analysis of Forensic Samples by Laser Ablation Electrospray Tandem Mass Spectrometry (LAESI-MS/MS)" 60th ASMS Conference on Mass Spectrometry and Allied Topics, Vancouver, BC, June 2012. (Poster)
- 92) *G. P. Jackson "Development of a Portable Loeb-Eiber Mass Spectrometer" 38th Federation of Analytical Chemistry and Spectroscopy Societies Conference, Reno, NV, Oct 2011. (Oral)
- 91) *G. P. Jackson, B. Deimler, S. L. Cook, C. M. Zimmermann, R. Hoffman "Comparison of CID, ETD, and Metastable Atom-Activated Dissociation (MAD) of Phosphorylated Tau Peptides" Central Regional Meeting of the American Chemical Society (ACS), Indianapolis, IN, June 2011. (Oral)
- 90) F. Jin, G. F. Verbeck, G. P. Jackson "Development of a Portable Mass Spectrometer for Operation at 1 Torr" 59th ASMS Conference on Mass Spectrometry and Allied Topics, Denver, CO, June 2011. (Poster)
- 89) Y. An, G. P. Jackson "Forensic Isotope Ratio Analysis of Human Hair" 59th ASMS Conference on Mass Spectrometry and Allied Topics, Denver, CO, June 2011. (Poster)
- 88) B. Deimler, S. L. Cook, G. P. Jackson, "Metastable Atom-Activated Dissociation Mass Spectrometry (MAD-MS) of Phosphopeptide and Sulfopeptide Anions" 59th ASMS Conference on Mass Spectrometry and Allied Topics, Denver, CO, June 2011. (Poster)
- 87) G. P. Jackson, S. L. Cook, C. M. Zimmermann, R. Hoffman "Comparison of CID, ETD, and Metastable Atom-Activated Dissociation (MAD) of Phosphorylated Tau Peptides" 59th ASMS Conference on Mass Spectrometry and Allied Topics, Denver, CO, June 2011. (Poster)
- 86) F. Jin, G. P. Jackson, "Development of a Portable Mass Spectrometer for Operation at 1 Torr" 8th Annual Ohio Mass Spectrometry Symposium, Columbus, OH, April 2011. (Oral)
- 85) Y. An, G. P. Jackson, "Towards an Isotopic Ratio Analysis of Human Hair" 8th Annual Ohio Mass Spectrometry Symposium, Columbus, OH, April 2011. (Oral)
- 84) *G. P. Jackson "Metastable Atom-Activated Dissociation of Glycopeptides, Nitrosylated Peptides and Non-Peptidic Analytes" 38th Federation of Analytical Chemistry and Spectroscopy Societies Conference, Raleigh, NC, Oct 2010. (Oral)
- 83) *G. P. Jackson "Developing Synergism between Universities and Crime Laboratories" MFRC Forensic Education Forum, Indianapolis, IN, Jun 2010. (Oral)
- 82) G. P. Jackson "Development of a Portable Mass Spectrometer for Operation at 1 Torr" 58th ASMS Conference on Mass Spectrometry and Allied Topics, Salt Lake City, UT, May 2010. (Oral)

- 81) S. L. Cook, G. P. Jackson "Metastable Atom-Activated Dissociation Mass Spectrometry (MAD-MS) of Peptidic and Non-Peptidic Species" 58th ASMS Conference on Mass Spectrometry and Allied Topics, Salt Lake City, UT, May 2010. (Poster)
- 80) S. L. Cook, G. P. Jackson "Characterization of Post-Translationally-modified Peptides using Metastable Atom-Activated Dissociation Mass Spectrometry (MAD-MS)" Seventh Ohio Valley Mass Spectrometry Symposium, Apr 2010. (Poster)
- 79) *S. L. Cook, G. P. Jackson "Metastable-Atom Activated Dissociation (MAD) within a Quadrupole Ion Trap Mass Spectrometer (QIT-MS)" 7th Uppsala Conference on Electron Capture and Transfer Dissociation, Nara, Japan, Dec 2009. (Oral)
- 78) C. M. Zimmermann, S. L. Cook, R. Hoffmann, G. P. Jackson "Comparison of Metastable Atom-Activation Dissociation (MAD), ETD and CID of Peptides and Modified Peptides" Midwestern Universities Analytical Chemistry Conference, East Lansing, MI, Dec 2009. (Poster)
- 77) Z. Muccio, C. Wöckel, G. P. Jackson "Simultaneous Identification and $\delta^{13}\text{C}$ Classification of Cannabinol in Unknown Marijuana Samples using GC with Concurrent Single Quadrupole and Isotope Ratio Mass Spectrometers" Midwestern Universities Analytical Chemistry Conference, East Lansing, MI, Dec 2009. (Poster)
- 76) S. L. Cook, C. M. Zimmermann, G. P. Jackson "Metastable Atom-Activated Dissociation Mass Spectrometry (MAD-MS) of Peptide Ions in a Quadrupole Ion Trap" 37th Federation of Analytical Chemistry and Spectroscopy Societies Conference, Louisville, KY, Oct 2009. (Oral)
- 75) C. M. Zimmermann, S. L. Cook, R. Hoffmann, G. P. Jackson "Comparison of Metastable Atom-Activation Dissociation (MAD), ETD and CID of Peptides and Modified Peptides" 57th ASMS Conference on Mass Spectrometry and Allied Topics, Philadelphia, PA, June 2009. (Poster)
- 74) S. L. Cook, G. P. Jackson "Metastable-Atom Activated Dissociation (MAD) within a Quadrupole Ion Trap Mass Spectrometry (QIT-MS)" 57th ASMS Conference on Mass Spectrometry and Allied Topics, Philadelphia, PA, June 2009. (Poster)
- 73) M. Wenning, L. Lojek, V. Nadella, G. P. Jackson "Determining Forensic Viability of DNA from Chewing Gum Samples" Mid-Atlantic Association of Forensic Scientists, Baltimore, MD, May 2009. (Oral)
- 72) S. L. Cook, Ü. A. Laskay, G. P. Jackson "Quantitative Analysis of Biomolecules in the Quadrupole Ion Trap via Pulsed Q DCID." 6th Uppsala Conference on Electron Capture and Transfer Dissociation, Madison, WI, December, 2008. (Poster)
- 71) Ü. A. Laskay, S. L. Cook, G. P. Jackson "Quantitative Analysis of Biomolecules in the Quadrupole Ion Trap via Pulsed Q DCID." Asilomar Conference on Mass Spectrometry, Asilomar, CA, October 2008. (Poster)
- 70) *G. P. Jackson "Quantitative Assessment of the Growth in Forensic Science Degree Programs in the US" 18th Triennial Meeting of the International Association of Forensic Sciences, New Orleans, LA, July 2008. (Oral)
- 69) Ü. A. Laskay, S. L. Cook, G. P. Jackson "Quantitative Analysis of Biomolecules in the Quadrupole Ion Trap via Pulsed Q DCID." 56th ASMS Conference on Mass Spectrometry and Allied Topics, Denver, CO, June 2008. (Poster)
- 68) S. L. Cook, Ü. A. Laskay, G. P. Jackson "Pulsed Q DCID: A Faster, More Energetic Fragmentation Method for the Analysis of Peptide Mixtures." 56th ASMS Conference on Mass Spectrometry and Allied Topics, Denver, CO, June 2008. (Poster)

- 67) C. M. Zimmermann, Ü. A. Laskay, G. P. Jackson "Gas Chromatography Tandem Mass Spectrometry for Biomarkers of Alcohol Abuse in Human Hair" 56th ASMS Conference on Mass Spectrometry and Allied Topics, Denver, CO, June 2008. (Poster)
- 66) Ü. A. Laskay, S. L. Cook, G. P. Jackson "Quantitative Analysis of Biomolecules in the Quadrupole Ion Trap via Pulsed Q DCID." Ohio University Research and Creative Activity Fair, May 2008. (Poster)
- 65) L. L. Lojek, M. Wenning, G. P. Jackson "Determining the Forensic Viability of DNA from Chewing Gum Samples." Ohio University Research and Creative Activity Fair, May 2008. (Poster)
- 64) C. M. Zimmermann, Ü. A. Laskay, G. P. Jackson "Analysis of Suspected Trace Human Remains from an Indoor concrete Surface." Ohio University Research and Creative Activity Fair, May 2008. (Poster)
- 63) *G. P. Jackson "Case Report: Forensic Investigation of 'the Mystery Stain' at the old Athens Asylum" The Faculty Commons & Alden Library Lunch Bag Series Exploring the Research Process, Athens, OH, May 2008. (Oral)
- 62) S. L. Cook, Ü. A. Laskay, G. P. Jackson "Pulsed Q DCID: A Faster, More Energetic Fragmentation Method for the Analysis of Peptide Mixtures." 5th Annual Ohio Mass Spectrometry Symposium, Columbus, OH, March 2008. (Oral)
- 61) Ü. A. Laskay, S. L. Cook, G. P. Jackson, "Quantitative Analysis of Biomolecules in the Quadrupole Ion Trap via Pulsed Q DCID." 5th Annual Ohio Mass Spectrometry Symposium, Columbus, OH, March 2008. (Oral)
- 60) C. M. Zimmermann, G. P. Jackson, "Gas Chromatography Tandem Mass Spectrometry for Biomarkers of Alcohol Abuse in Human Hair." 5th Annual Ohio Mass Spectrometry Symposium, Columbus, OH, March 2008. (Oral)
- 59) X. Sun, P. de B. Harrington, C. M. Zimmermann, G. P. Jackson, C. E. Bunker " Classification of Jet Fuel Physical Properties by Fuzzy Rule-Building Expert Systems Applied to Two-Way Fast GC-Fast MS Data Objects." 59th Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, New Orleans, LA, March 2008. (Oral)
- 58) *G. P. Jackson "A Faster Method of Tandem Mass Spectrometry for Fast or Complex GC and LC Separations." 34th Federation of Analytical Chemistry and Spectroscopy Societies Conference, Memphis, TN, October 2007. (Oral)
- 57) G. P. Jackson, C. M. Zimmermann, O. L. Collin "A Faster Method of Tandem Mass Spectrometry for Forensic, Clinical and Biological Applications" 55th ASMS Conference on Mass Spectrometry and Allied Topics, Indianapolis, IN, June 2007. (Poster)
- 56) Ü. A. Laskay, O. L. Collin, G. P. Jackson "Dynamic CID-A Novel Method to Achieve Fast Fragmentation of Biomolecules in a QIT" 55th ASMS Conference on Mass Spectrometry and Allied Topics, Indianapolis, IN, June 2007. (Oral)
- 55) C. Kanalas, O. L. Collin, G. P. Jackson "Study of Pulsed Dynamic Collision-Induced Dissociation of Leucine Enkephalin" Ohio University Research and Creativity Fair, Athens, OH, May, 2007. (Poster)
- 54) Ü. A. Laskay, O. L. Collin, G. P. Jackson "Improving the Fragmentation of Biomolecules in a Quadrupole Ion Trap" Ohio University Research and Creativity Fair, Athens, OH, May, 2007. (Poster)

- 53) *G. P. Jackson "CSI Effect on Forensic Science Degree Programs in the US" Oxford Roundtable on Criminal Law and Justice, Oxford University, Oxford, England, April 2007. (Oral)
- 52) C. M. Zimmermann, O. L. Collin, G. P. Jackson, "Fast Gas Chromatography Tandem Mass Spectrometry for the Detection of Biomarkers for Alcohol Abuse in Human Hair" 4th Annual Ohio Mass Spectrometry Symposium, Columbus, OH, March 2007. (Oral)
- 51) Ü. A. Laskay, O. L. Collin, G. P. Jackson, "Implementation of Dynamic Collision Induced Dissociation to the Fragmentation of Biomolecules" 4th Annual Ohio Mass Spectrometry Symposium, Columbus, OH, March 2007. (Oral)
- 50) C. M. Zimmermann, O. L. Collin, G. P. Jackson, "Analysis of Fatty Acid Ethyl Esters in Human Hair by Fast Gas Chromatography Tandem Mass Spectrometry" Pittsburg Conference, Chicago, IL, February 2007. (Poster)
- 49) O. L. Collin, G. P. Jackson, "Dynamic Collision-Induced Dissociation: A Faster Approach for Tandem Mass Spectrometry of Peptides" Pittsburg Conference, Chicago, IL, February 2007. (Poster)
- 48) O. L. Collin, M. Beier, C. M. Zimmermann, Ü. A. Laskay, G. P. Jackson, "Fast Gas Chromatography with Tandem Quadrupole Ion Trap Mass Spectrometry Applied to the Detection of Explosives" 232nd American Chemical Society Meeting, San Francisco, CA, Sept 2006. (Poster)
- 47) *G. P. Jackson, O. L. Collin, C. Zimmermann, Ü. A. Laskay, M. Beier, "Fast Gas Chromatography With Quadrupole Ion Trap Tandem Mass Spectrometry Applied to the Detection of Explosives" 33rd Federation of Analytical Chemistry and Spectroscopy Societies Conference, Orlando, Fl, Oct. 2006. (Oral)
- 46) *O. L. Collin, G. P. Jackson, "Analysis of Fatty Acid Ethyl Esters by Fast Gas Chromatography-Tandem Mass Spectrometry " 33rd Federation of Analytical Chemistry and Spectroscopy Societies Conference, Orlando, Fl, Oct. 2006. (Oral)
- 45) Ü. A. Laskay, J. J. Hyland, M. Beier, O. L. Collin, G. P. Jackson, "CID Achieved During Mass Acquisition in a QIT-MS Using a Two-Frequency Excitation Waveform" 17th International Mass Spectrometry Conference, Prague, Czech Republic, August 2006. (Poster)
- 44) O. L. Collin, Matthias Beier, G. P. Jackson, "Detection of Explosives by Fast GC-Fast MS Using an Ion Trap" Technical Support Working Group Explosives Detection Conference, Miami, FL, June 2006. (Poster)
- 43) Ü. A. Laskay, J. J. Hyland, G. P. Jackson, "CID Achieved During Mass Acquisition in a QIT-MS Using a Two-Frequency Excitation Waveform" 54th ASMS Conference on Mass Spectrometry and Allied Topics, Seattle, WA, May 2006. (Poster)
- 42) S. P. Pasilis, L. Li, G. P. Jackson, D. C. Duckworth, D. E. Goeringer, "Dynamic Collision Induced Dissociation of Metal Oxide ions and Peptide Ions in a Quadrupole Ion Trap" 54th ASMS Conference on Mass Spectrometry and Allied Topics, Seattle, WA, May 2006. (Poster)
- 41) G. P. Jackson, Ü. A. Laskay, B. J. Nichol, J. J. Hyland, "CID in Quadrupole Ion Traps Using Resonance Excitation of Higher-Order Secular Frequencies" 54th ASMS Conference on Mass Spectrometry and Allied Topics, Seattle, WA, May 2006. (Poster)
- 40) *G. P. Jackson, "A New, Fast-GC Method for the Analysis of High-Explosives" 115th Annual Meeting of The Ohio Academy of Science, Dayton, OH, April, 2006. (Oral)

- 39) J. J. Hyland, B. J. Nichol, Ü. A. Laskay, G. P. Jackson, "Simulations of a Novel Method of Molecular Fragmentation in an Ion Trap" Ohio University Research and Creativity Fair, Athens, OH, May, 2006. (Poster)
- 38) K. DeRhodes, G. P. Jackson, "Optimization of PDECD for Fast-GC of High-Explosives" Ohio University Research and Creativity Fair, Athens, OH, May, 2006. (Poster)
- 37) O. L. Collin, C. Zimmermann, M. Beier, G. P. Jackson, "Fast, Confirmatory Analysis of High Explosives Using Fast-GC Quadrupole Ion Trap Mass Spectrometry" Ohio University Research and Creativity Fair, Athens, OH, May, 2006. (Poster)
- 36) *G. P. Jackson, "A New, Fast-GC Method for the Analysis of High-Explosives" 115th Annual Meeting of The Ohio Academy of Science, Dayton, OH, April, 2006. (Oral)
- 35) Ü. A. Laskay, J.J. Hyland, G. P. Jackson, "CID Achieved During Mass Acquisition Using a Two-Frequency Excitation Waveform" 3rd Annual Ohio Mass Spectrometry Symposium, Columbus, OH, March, 2006. (Oral)
- 34) *Glen P. Jackson "New Approach for Tandem Mass Spectrometry in Quadrupole Ion Traps" West Virginia University, Morgantown, WV, Oct. 2005. (Oral)
- 33) *Glen P. Jackson "New approach for tandem mass spectrometry in quadrupole ion traps" NIH, Bethesda, MD, Aug. 2005. (Oral)
- 32) O. Collin, G. P. Jackson, "Metastable-Activated Dissociation Mass Spectrometry: A New Paradigm for Mass Spectrometry" 53rd ASMS Conference on Mass Spectrometry and Allied Topics, San Antonio, TX, June, 2005. (Poster)
- 31) O. Collin, G. P. Jackson, "A Novel Protein Sequencing Technique" Ohio University Research and Creativity Fair, Athens, OH, May, 2005. (Poster)
- 30) K. DeRhodes, C. Neigel, G. P. Jackson, "New Method for the Simultaneous Detection of Low- and High-Explosives" Ohio University Research and Creativity Fair, Athens, OH, May, 2005. (Poster)
- 29) *G. P. Jackson, "Metastable-Activated Dissociation Mass Spectrometry for the Structural Determination of Proteins" University of Leipzig, Leipzig, Germany, Mar, 2005. (Oral)
- 28) *G. P. Jackson, "Recent Developments in Mass Spectrometry: Instrumentation and Applications" Upper Ohio Valley Section of the American Chemical Society, Marietta College, Marietta, OH, Feb, 2005. (Oral)
- 27) *G. P. Jackson, "Personal Response System in Undergraduate Chemical Education" Departmental Seminar/Workshop, Ohio University, Athens, OH, Oct, 2004. (Oral)

Work conducted at Oak Ridge National Laboratory (Graduate Intern and Postdoctoral Associate)

- 26) D. C. Duckworth, L. Li, G. P. Jackson, B. C. Knipple, D. E. Goeringer "Dynamic Collision Induced Dissociation in Quadrupole Ion Trap Mass Spectrometry" 53rd ASMS Conference on Mass Spectrometry and Allied Topics, San Antonio, TX, June, 2005. (Poster)
- 25) Y. Lu, D. C. Duckworth, G. P. Jackson, F. L. King "Electrospray Mass Spectrometry of Room Temperature Ionic Liquids" Pittsburg Conference, Orlando, FL, Feb, 2005. (Poster)
- 24) L. Li, D. C. Duckworth, D. E. Goeringer, G. P. Jackson, "Collision-Induced Dissociation Methods for Reducing Polyatomic Interferences Elemental Analysis via Ion Trap Mass Spectrometry" Pittsburg Conference, Orlando, FL, Feb, 2005. (Poster)

- 23) G. P. Jackson, S. Dai, D. C. Duckworth, "Mass Spectrometry of Room Temperature Ionic Liquids" 52nd ASMS Conference on Mass Spectrometry and Allied Topics, Nashville, TN, May, 2004. (Poster)
- 22) G. P. Jackson, S. Dai, D. C. Duckworth, "Mass Spectrometry of Room Temperature Ionic Liquids" 30th Federation of Analytical Chemistry and Spectroscopy Societies Conference, Fort Lauderdale, FL, Oct. 2003. (Poster)
- 21) G. P. Jackson, D. E. Goeringer, D. C. Duckworth, "Fundamental Studies Involving Collision-Induced Dissociation of Strongly Bound Metal Oxide Ions in Quadrupole Ion Traps," 15th Sanibel Conference on Mass Spectrometry, Sanibel, FL, Jan. 2003. (Poster)
- 20) *D. C. Duckworth, G. P. Jackson, D. E. Goeringer, "Collision-Induced Dissociation Reactions of Glow-Discharge-Generated Polyatomic Ions in Quadrupole Ion Trap Mass Spectrometry," European Winter Conference on Plasma Spectrochemistry, Garmisch-Partenkirchen, Germany, Jan. 2003. (Oral)
- 19) *G. P. Jackson, F. L. King, D. C. Duckworth, "Selective Attenuation of Isobaric Interferences in Quadrupole Ion Trap Mass Spectrometry" 29th Federation of Analytical Chemistry and Spectroscopy Societies Conference, Providence, RI, Oct. 2002. (Oral)
- 18) G. P. Jackson, F. L. King, "Post-Pulse Ion Generation in a Millisecond Pulsed Glow Discharge," 2002 Winter Conference on Plasma Spectrochemistry, Scottsdale, AZ, Jan. 2002. (Oral)
- 17) *D. C. Duckworth, D. E. Goeringer, G. P. Jackson, F. L. King, "Breaking Up and Making Up: Gas-Phase Heavy Metal Ion Chemistry In Quadrupole Ion Traps," 28th Federation of Analytical Chemistry and Spectroscopy Societies Conference, Detroit, MI, Oct. 2001. (Oral)
- 16) L. L. Gdovka, G. P. Jackson, "Beckett's *Fin de Partie* and Einstein's Theory of Relativity," 26th Colloquium on Literature and Film, West Virginia University, Morgantown, WV, Sept. 2001. (Oral)
- 15) *Douglas C. Duckworth, G. P. Jackson, Fred L. King, "Glow Discharge Quadrupole Ion Trap Mass Spectrometry: Analytical Tool, Chemical Probe, Or Mere Curiosity?" 53rd Annual Meeting of the Southeastern Region of the American Chemical Society, Savannah, GA, Sept. 2001. (Oral)
- 14) G. P. Jackson, F. L. King, D. E. Goeringer, D. C. Duckworth, "Determination of Mass Effects on the Dissociation of Diatomic Ions in a Quadrupole Ion Trap," 49th ASMS Conference on Mass Spectrometry and Allied Topics, Chicago, IL, May 2001. (Poster)
- 13) D. C. Duckworth, G. P. Jackson, F. L. King, "Mechanistic and Kinetic Investigation of the Oxidation of Uranium Ions in a Quadrupole Ion Trap," 49th ASMS Conference on Mass Spectrometry and Allied Topics, Chicago, IL, May 2001. (Oral)
- 12) *G. P. Jackson, F. L. King, D. E. Goeringer, D. C. Duckworth, "Investigation of the Collision Induced Dissociation of Diatomic Molecules in Quadrupole Ion Traps," East Tennessee Mass Spectrometry Discussion Group, Knoxville, TN, May 2001. (Oral)
- 11) G. P. Jackson, F. L. King, D. C. Duckworth, "Relative Dissociation Rate Measurements of Rare Earth Element Oxides in a Quadrupole Ion Trap Mass Spectrometer," 27th Federation of Analytical Chemistry and Spectroscopy Societies Conference, Nashville, TN, Sept. 2000. (Oral)
- 10) D. C. Duckworth, J. K. Gibson, G. P. Jackson, F. L. King, "Reactions of Gas-Phase Uranium with Pentamethylcyclopentadiene in a Quadrupole Ion Trap," 48th ASMS Conference on Mass Spectrometry and Allied Topics, Long Beach, CA, June 2000. (Poster)

Work conducted at West Virginia University (Ph.D. Research)

- 9) *F. L. King, G. P. Jackson, L. Lei, C. Lewis, T. Millay, M. A. Moser, V. Majidi, "Excitation And Ionization In a MS Pulsed Glow Discharge Plasma: Implications For Atomic And Molecular Determinations," 28th Federation of Analytical Chemistry and Spectroscopy Societies Conference, Detroit, MI, Oct. 2001. (Oral)
- 8) *F. L. King, C. Lewis, G. P. Jackson, "2-D Spatial and Temporal Mapping of MS-Pulsed DC and rf Glow Discharges," 27th Federation of Analytical Chemistry and Spectroscopy Societies Conference, Nashville, TN, Sept. 2000. (Oral)
- 7) G. P. Jackson, C. Lewis, F. L. King, "Two-Dimensional Optical Investigation of a Millisecond Pulsed Glow Discharge Source," 27th Federation of Analytical Chemistry and Spectroscopy Societies Conference, Nashville, TN, Sept. 2000. (Oral)
- 6) G. P. Jackson, C. Lewis, S. K. Doorn, V. Majidi, F. L. King, "Temporally and Spatially Resolved Diagnostics of a Pulsed Glow Discharge Source", 2000 Winter Conference on Plasma Spectrochemistry, Fort Lauderdale, FL, Jan. 2000. (Oral)
- 5) G. P. Jackson, C. Lewis, S. Doorn, V. Majidi, F. L. King, "Temporally and Spatially Resolved Diagnostics of Pulsed Glow Discharge Sources", 52nd Southeast Regional American Chemical Society Meeting, Knoxville, TN, Oct. 1999. (Oral)
- 4) S. K. Doorn, G. P. Jackson, C. Lewis, D. Wayne, V. Majidi, F. L. King, "Diagnostics of a Pulsed Glow Discharge Source," Poster presented at 26th Federation of Analytical Chemistry and Spectroscopy Societies Conference, Vancouver, Canada, Oct. 1999. (Oral)

Work conducted at Ohio University (M.S. Research)

- 3) A. R. J. Andrews, L. de Jager, H. Zhang, G. P. Jackson, "Fast Extraction of Chlorinated Pesticides from Water Samples," 25th Federation of Analytical Chemistry and Spectroscopy Societies Conference, Austin, TX, Oct. 1998. (Oral)
- 2) A. R. J. Andrews, G. P. Jackson, "Fast Screening of Water Samples for Chlorinated Pesticides," 24th Federation of Analytical Chemistry and Spectroscopy Societies Conference, Providence, RI, Oct. 1997. (Oral)
- 1) G. P. Jackson, A. R. J. Andrews, "Chlorinated Pesticide Determination by Solid-Phase Microextraction and Fast Gas Chromatography", Pittsburgh Conference, Atlanta, Georgia, Mar. 1997. (Oral)