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|  | Jonathan Merten Assistant Professor  (870)972-3277  jmerten@astate.edu |  |

### Current Position

Position Title: Assistant Professor

Current Academic Rank: Assistant Professor

Rank Since: Fall 2012

### Degrees

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| Ph.D. | Chemistry, University of Florida, Gainseville, Florida 2011  Dissertation: Analytical Applications of Time-Resolved Powerchip Laser Spectroscopy |
| B.S. | Chemistry, University of Virginia, Charlottesville, Virginia 1999 |

### Scholarly Contributions and Creative Productions

Grants

Burns, W., & Jonathan, M. (2012). Recitation Pilot Program for General Chemistry. Arkansas State University - $2000.

Jonathan M. (2013). Pseudo-continuum Atomic Absorption Spectroscopy for Determination of Isotopic Enrichment- $4600.

Journal Publications

Merten, J., Smith, B., Omenetto, N. (2013) Local Thermodynamic Equilibrium Considerations in Powerchip Laser-Induced Plasmas. Spectrochimica Acta Part B, 83-84, 50-55.

Presentations

Merten, J., Bullock, N., Sheppard, C., Parigger, C., & Allen, S. (2012). Temporal Evolution of the LIBS Spectra of a Representative Nitro Compound. Federation of Analytical Chemistry and Spectroscopy Societies- SCIX.

Merten, J., Jones, M., Shepherd, C., Parigger, C., & Allen, S. (2013). Spatiotemporal Evolution of Plasma Molecular Emission following Laser Ablation of Explosive Analogs. SPIE Defense and Sensing.

Poster Presentations

Merten, J., Smith, B.W., & Omenetto, N. (2012). Time-Resolved Powerchip Laser Diagnostics: beyond the McWhirter Criterion. FACSS 2012 / SCIX 2012.

Bisesi, J. H., Merten, J., Parks, A., Ferguson, P., & Sabo-Atwood, T. (2012). Imaging Real Time Single Walled Carbon Nanotube Distribution in Live Fish Using Near-Infrared Fluorescence Detection. ICEENN 2012.

### Other Institutional Service

Creating a Climate of Mentorship- Developing a Viable Program (University) Fall 2012

Student Recruitment Day (University) Fall 2012

Analytical Chemistry Curriculum Committee (University) Fall 2012 – Present

PhD committee member- Anastasia Woodard, Hallie Freyaldenhoven

### Professional Service

Reviewer, Journal of Applied Physics-B Fall 2012

### Teaching

Fall 2012 Courses:

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| CHEM 1013 003 - GENERAL CHEMISTRY I |