



**2017
Southeastern
Undergraduate
Research
Conference**

**Detailed Schedule for the
49th Annual SURC**
University of South Carolina
Columbia, SC
January 27-28, 2017

Friday, January 27, 2017

3:00-7:30 PM	Conference Registration	1st floor lobby, USC Alumni Center
4:00-6:00 PM	USC Campus and Chemistry and Biochemistry Department Tours Sign up for a tour time at the registration desk	1st floor lobby, USC Alumni Center
6:00 PM	Welcome & Opening Remarks Dr. Hanno zur Loye , Associate Dean for Research and Graduate Education, David W. Robinson Palmetto Professor of Chemistry, University of South Carolina, Columbia, SC	Ballrooms 2&3, USC Alumni Center
6:00-7:30 PM	Buffet Dinner	Ballrooms 2&3, USC Alumni Center
7:30-8:30 PM	Keynote Address Dr. Stephen L. Morgan , University of South Carolina, Columbia, SC <i>Undergraduate Research in Forensic Analytical Chemistry: Fingerprints, Blood, Fibers, and Dyes</i>	Ballrooms 2&3, USC Alumni Center

Saturday, January 28, 2017

7:30-8:00 AM	Poster Session A Set-up	Ballroom 1, USC Alumni Center
8:00-9:50 AM	Oral Presentations Session 1- Sponsored by AmbioPharm, Inc. Analytical, Biochemistry/Molecular Biology, Inorganic Chemistry	Ballroom 3, USC Alumni Center
8:05-8:20 AM	Nicholas Leschinsky , University of South Carolina, Columbia, SC <i>Characterization of a New P450 OleT Ortholog and its Applications for Biofuel Synthesis</i>	
8:20-8:35 AM	Kathleen Riley , Mississippi State University, Mississippi State, MS <i>Transition-Metal Catalyzed Nitrene Transfer Reactions of Olefins Using PhINTs in the Presence of an Ionic Liquid</i>	
8:35-8:50 AM	Jonathan Flores , Georgia Gwinnett College, Lawrenceville, GA <i>Inhibiting Heme Degradation in the Biomolecular Synthesis of PEDOT:PSS</i>	
8:50-9:05 AM	Joshua H. Gray , University of North Carolina, Chapel Hill, NC <i>Comparing Principal Component Regression (PCR) and Multivariate Curve Resolution by Alternating Least Square (MCR-ALS) for Decomposition of Electrochemical Data</i>	
9:05-9:20 AM	Casey A. Carpenter , University of Mississippi, Oxford, MS <i>Comparison of Dinuclear Bis[Re(Bpy)(CO)₃Cl]Anthracene and Fac-Re(Bpy)(CO)₃Cl for the Photocatalytic Reduction of CO₂</i>	

- 9:20-9:35 AM **Lauren Watts and Paige Heiple**, Bob Jones University, Greenville, SC
The Two-Step Hantzsch Thiazole Synthesis of Sphingosine Kinase Inhibitor II
- 9:35-9:50 AM **Logan R. Martin**, Mississippi State University, Mississippi State, MS
Comparison of the Thermodynamics of Formation of 1:1 Complexes Between ATP and Mg with First Row Transition Divalent Metal Ions

10:00-11:45 AM **Poster Session A – (Last Names A-K)** Exhibitor/Recruiting Tables Open Ballroom 1, USC Alumni Center

12:00-2:00 PM **Lunch** (students on their own) Exhibitor/Recruiting Tables Open, Poster Session B Set-up Vista Restaurants

2:00-3:45 PM **Poster Session B – (Last Names L-Z)** Exhibitor/Recruiting Tables Open Ballroom 1, USC Alumni Center

3:45-4:15 PM **Refreshment Break** Ballrooms 1&2 USC Alumni Center

4:15-5:45 PM **Oral Presentations Session 2- Sponsored by [Integrated Micro-Chromatography Systems, LLC \(IMCS\)](#)** Ballroom 3, USC Alumni Center
Environmental, Organic, Materials, Physical Chemistry

4:15-4:30 PM **Jessica Rotheiser & Tret Burdette**, University of South Carolina, Columbia, SC
Infrared Spectroscopy Detection of Magnetic Tape Degradation

4:30-4:45 PM **Houston Cole**, Campbell University, Buies Creek, NC
Cyclization of Two Distinct Methyl Ketones with DMSO and Ammonium Salts to Produce Heterodisubstituted Pyridines

4:45-5:00 PM **Nathaniel Fletcher**, College of Charleston, Charleston, SC
Sulfidation of Silver Nanoparticles

5:00-5:15 PM **Rachel West-Lacourrege**, Mississippi State University, Mississippi State, MS
Rapid Removal of Benzoic Acid and Phthalic Acid from Wastewater Using Magnetized Fast Pyrolysis Biochar from Waste Douglas Fir

5:15-5:30 PM **Peymon Baghernejad**, University of Tennessee, Knoxville, TN
Surface Enhanced Raman Spectroscopy Detection of Neurotransmitters

5:30-5:45 PM **Jeannette Rodriguez**, Clemson University, Clemson, SC
Antioxidant Activity of Nanoceria Conjugates

6:00-7:30 PM **Closing Dinner and Awards Ceremony** Oral presentation awards sponsor: Dr. Irina P. Roof and Family Ballrooms 2&3, USC Alumni Center

END OF CONFERENCE

The SURC 2017 organizers would like to thank our sponsors:

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Chemistry and Biochemistry
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Dr. Irina P. Roof and family



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