

CO-CREATOR OF SEDGWICK AWARD PASSES

The Department was saddened to learn that James E. Sedgwick, Jr., co-creator of the James B. “Ben” Sedgwick Memorial Scholarship, passed away on April 2nd. He and his wife, Trilby, created the scholarship in memory of their son, Ben, who received his bachelor’s and master’s degrees in Chemistry from ISU, and who passed away while working on his Ph.D. at Georgia Tech, which was awarded posthumously. To learn more, please go to http://www.pantagraph.com/news/local/obituaries/james-sedgwick-jr/article_79144a85-eb6c-5d82-aa68-d6c8143b151f.html.

SPRING 2016 SEMINAR SERIES

3:00 p.m. in Julian Hall room 225

- April 15 Dr. Belgin Canturk (Dow AgroSciences), “An Overview of Dow AgroSciences and Discovery of Rinskor™ Active”
- April 22 Mark Servos (Research)
- April 29 Daniel Hart (Literature)



ACS CALENDAR

- April 15-16 Annual Meeting of the Illinois State Academy of Science (Southern Illinois University-Edwardsville)
- April 22 Earth Day (Poetry Contest Deadline TBA)
- April 23 National Chemistry Olympiad Exam (Bradley University)
- May Meeting at Illinois State University

DATES AND DEADLINES

- April 15 Deadline for MFA Oral Defense for May 2016 graduates.
- April 18 Deadline (2:00 p.m.) to file final MFA copies with the Graduate School for May 2016 graduates.
- April 20 2016 IWU/ISU Sigma Xi The Scientific Research Society Initiation Banquet – 6 p.m., DeGarmo Hall Room 551; \$10 per person
- April 22 Transfer Day
- April 25 -Final grade rosters available on My.IllinoisState.edu for all classes.
-Final Grade submission informational email sent to faculty.

- April 29** **50th Anniversary & Senior Awards Banquet – 6 p.m., Redbird Room C at the Marriott**
- April 30** **Chemistry 50th Anniversary Golf Outing – 9 a.m. to 2 p.m., Weibring Golf Club, Normal**
- Deadline for Incomplete grades to be completed AND grade change notices filed with Academic Records for graduate students from previous terms.
- Last day for students who have three or more finals on the same day to complete paperwork to request one be moved.
- Fall 2016 advanced registration closes, will reopen May 16.

- Last day of Spring classes.
- Evaluation (Final Exams) period begins.

May 6 **Graduation Reception – 5:30-6:30 p.m., Turner 121**

STUDENT, FACULTY and STAFF ACTIVITIES

Publications

1. Sandra M. Duque-Benítez, Luz A. Ríos-Vásquez, Rogelio Ocampo-Cardona, David L. Cedeño, **Marjorie A. Jones**, Iván D. Vélez, Sara M. Robledo, "Synthesis of Novel Quaternary Ammonium Salts and Their *in Vitro* Antileishmanial Activity and U-937 Cell Cytotoxicity," *Molecules* **2016**, 21(4), 381.
2. Paris E. Georghiou, Celine Schneider, Grigory Shamov, **Timothy D. Lash**, Shofiur Rahman, D. Sabrina Giddings, "Mechanochemical Formation of a 1:1 C₆₀:*tert*-butylcalix[4]azulene Supramolecular Complex: Solid-state NMR and DFT Computational Studies," *Supramolecular Chemistry* **2016**, 28 (5-6), 396-402.

Faculty Presentations

1. ^(Emeritus)**C. Frank Shaw, III**, "Demonstrations for Climate Science and Climate Change," Environmental Education Association of Illinois 2016 Conference, Canton, IL, March 12, 2016.

Student Presentations

Illinois State University Research Symposium, April 8, 2016

1. ^(UG)**Bradley J. Austermuehle**, **Shawn R. Hitchcock**, "A Stereochemical Analysis of an Asymmetric Aldol Product Derived From *m*-3-methoxyphenoxyacetylloxazolidine-2-thione."
2. ^(UG)**Matthew G Bauer**, **Marjorie A. Jones**, ^(G)**Benjamin M. Dorsey**, ^(UG)**Jordan M. Baumhardt**, "Studies of Leishmania and Collagen Interactions."
3. ^(G)**James P. Brault**, **Jon A. Friesen**, "The Characterization of Cytidylyltransferase Enzyme Activity through High Performance Liquid Chromatography."
4. ^(UG)**Alessandra M. Bruno**, **Christopher C. Mulligan**, **Michael C. Gizzi**, **Jamie Wieland**, "The Applications of a Portable Mass Spectrometer in the Criminal Justice System."
5. ^(UG)**Michael Y. Burke**, **Richard W. Nagorski**, "Synthesis and Preliminary Kinetic Studies of *N*-(hydroxybenzyl)phthalamide Derivatives."
6. ^(UG)**Chloe M. Butcher**, **Shawn R. Hitchcock**, "Bis(oxazolidine-2-thione)malonamides: A New Chiral Scaffold for Asymmetric Conjugate Additions."
7. ^(UG)**Mihir K. Chavda**, **Shawn R. Hitchcock**, **Lisa F. Szczepura**, "N³-di[enyl]phosphinobenzamido and -1,3-oxazolidin-2-thiones as Chiral Ligands for Palladium-catalyzed Asymmetric Tsuji-Trost Reactions."
8. ^(UG)**Colleen P. Chin**, **Lisa F. Szczepura**, ^(G)**Daniel N. Huh**, "Synthesis of Rhenium Based Cluster Complexes Containing Fischer Carbenes."
9. ^(UG)**Nicole Comas**, **Shawn R. Hitchcock**, **Gregory M. Ferrence**, "Synthesis and X-ray Crystallographic Studies of 1,3,4-oxadiazine-2-thione; Efforts towards the Asymmetric Synthesis of Arundic Acid."
10. ^(UG)**William T. Darrow**, **Timothy D. Lash**, "Synthesis of Key Intermediates for the Generation of Benzoporphyrins."

11. ^(UG)Kirk Eichenberg, Marjorie A. Jones, "Extracts of Traditional Medicine for Effects on *Leishmania tarentolae*."
12. ^(UG)Rachel Epplin, Christopher G. Hamaker, "Synthesis and Characterization of Sulfonamide Compounds."
13. ^(UG)William L. Fatigante, Christopher C. Mulligan, ^(G)Zachary E. Lawton, Michael C. Gizzi, Jamie Wieland, "Analytical Validation of an Ambient Sampling, Portable Mass Spectrometer for Forensic Applications."
14. ^(G)Seth L. Filbrun, Jeremy D. Driskell, ^(UG)Francis E. Lovato, ^(G)Yen H. Lai, ^(UG)Arielle A. Lopez, "Development of a Multiplexed Point-of-Care SERS Immunoassay Based on Antigen Mediated Aggregation of Gold Nanoparticles."
15. ^(UG)Nora K. Fredstrom, Shawn R. Hitchcock, Gregory M. Ferrence, "Compliance versus Commitment: Bridging the Necessity of Experimentation and the Requirements of Safe Practice."
16. ^(G)Ruixiao Gao, Timothy D. Lash, "Synthesis of a PAH-Porphyrin Hybrid."
17. ^(G)Catherine M. Hattan, Timothy D. Lash, "Synthesis of Benziporphyrin Ethers."
18. ^(G)Craig S. Haynes, Shawn R. Hitchcock, Jean M. Standard, "Efforts towards Asymmetric Synthesis of a Human T-cell Leukemia Virus Protease Inhibitor."
19. ^(UG)Chanse Hoagland, Eirin C. Sullivan, " $\text{Sr}_{3-3x/2}\text{Ga}_{1-x}\text{M}_x\text{O}_4\text{F}$ ($0 \leq x \leq 0.25$) Oxyfluoride Antiperovskites."
20. ^(UG)Samantha E. Huffman, Gregory M. Ferrence, "Preparing General and Organic Chemistry Teaching Modules Using Molecular Visualization Software."
21. ^(G)Timothy M. Jugovic, Christopher G. Hamaker, "Synthesis of New Catalytically Active Metal-Ligand Complexes."
22. ^(G)Jade M. Katinas, Marjorie A. Jones, ^(UG)Rachel Epplin, Christopher G. Hamaker, "Investigation of Unique Sulfonamides on *Leishmania* Cell Viability and Pathway of Inhibition."
23. ^(UG)Alissa N. Latham, Timothy D. Lash, "Preparation of Tripyrrane Intermediates for the Synthesis of N-Methylbenzocarbaporphyrins."
24. ^(G)Zachary E. Lawton, Christopher C. Mulligan, ^(UG)Alessandra M. Bruno, Michael C. Gizzi, Jamie Wieland, "Characterization of 2C-phenethylamine Designer Drugs and N-(2-methoxy)benzyl Derivatives Using a Portable, Ambient Sampling Mass Spectrometer."
25. ^(UG)Austin Leise, Shawn R. Hitchcock, "An Oxazolidine-2-thione Based Process for Preparing a Key Aldehyde Fragment in the Synthesis of the Akaji HTLV-1 Protease Inhibitor."
26. ^(UG)Victor L. Leong, Shawn R. Hitchcock, "Large Scale Synthesis of an Asymmetric Glycolate Aldol Addition Product."
27. ^(UG)Alexandra B. Mandl, Jeremy D. Driskell, ^(G)Seth L. Filbrun, ^(UG)Francis E. Lovato, ^(G)Yen H. Lai, "The Asymmetric Functionalization of Gold Nanoparticles to Produce Controlled Dimers: A Novel Approach to Aggregation Based Immunoassays."
28. ^(UG)April C. Perkins, Shawn R. Hitchcock, "Oxadiazinones as Chiral Auxiliaries: A New Pathway for the Oxidative Cleavage of the Aldol Addition Side Chain."
29. ^(UG)Dayna E. Redini, Richard W. Nagorski, "Synthesis, Characterization and Preliminary Kinetic Studies of the Ester Derivatives of Alpha-hydroxyhippuric Acid."

30. ^(UG)Yasminda R. Ruiz, Christopher C. Mulligan, Michael C. Gizzi, Jamie Wieland, "Viability and Economic Assessment of Portable Mass Spectrometric Instrumentation for Use in Forensic Science."
31. ^(G)Navneet Sahota, Timothy D. Lash, "Synthesis of Key Intermediates for the Generation of Benziporphyrins."
32. ^(UG)Tyler J. Smolczyk, Timothy D. Lash, "Preparation of Carbatripyrrin Intermediates for the Synthesis of Carbaporphyrinoid Systems."
33. ^(UG)Richard E. Taylor IV, Jun-Hyun Kim, "Catalytic Property of Highly Stable Gold-Polymer Composite Nanoparticles."
34. ^(G)Joshua Theobald, Marjorie A. Jones, "Investigation of Inulinase Activity by *Kluyveromyces marxianus* NRRL Y-50798."
35. ^(UG)Angelica R. Traub, Christopher C. Mulligan, "Toxicological Applications of a Portable Mass Spectrometer."
36. ^(G)Craig A. Wallace, Craig C. McLauchlan, Marjorie A. Jones, "Incubation of *Leishmania tarentolae* with Vanadium Complexes to Assess Their Potential as Therapeutic Drugs."
37. ^(UG)Samantha B. Willens, ^(UG)Haley N. Gelfund, T. Andrew Mitchell, Shilpa Pohani, ^(G)C. Marshall Law, "Investigation of Pyrone Based [5+2] Cycloadditions."
38. ^(UG)Kokou M. Zikpi, Shawn R. Hitchcock, "Syntheses of Proline Bases Side Chain for HTLV Inhibitor."

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