NEW FACULTY MEMBERS

During the Fall of the 2010-2011 academic year, the Chemistry and Biochemistry Department welcomed our two newest full-time faculty members, Dr. Deborah Bromfield Lee and Dr. Ellen Moomaw.

Dr. Deborah Bromfield Lee obtained a Bachelor's in Chemistry at University of South Florida and a Masters in Chemistry with the research emphasis in Organic Chemistry. Afterward she worked as an organic chemist before starting a Doctorate in Chemistry at North Carolina State University in which her research emphasis was in Chemical Education. Her research there focused on the development of experiments and activities to use multiple or different senses other than eye sight. After working at Elon University in NC, she has joined the KSU faculty.

Dr. Ellen Moomaw moved to KSU from Gainesville State College where she taught for three years and established a research lab to investigate the manganese centers of oxalate oxidase from Ceriporiopsis subvermispora. Dr. Moomaw moved her research lab to KSU in June and has two KSU students working on the project. Dr. Moomaw received her PhD degree from the University of Florida in the laboratory of Dr. Nigel Richards in 2007. Her work there involved using electron paramagnetic resonance spectroscopy and other techniques to characterize the enzyme oxalate decarboxylase. Before earning her PhD, Dr. Moomaw worked for many years as a research biochemist in a number of biotechnology companies in San Diego, CA. She spent over twelve years at Agouron Pharmaceuticals, Inc (now part of Pfizer) where she worked on Hepatitis C protease, HIV reverse transcriptase, HIV protease, thymidylate synthetase, and other enzymes important in structure based drug design.
Pharmaceutical Sciences in Puerto Rico

This **global learning course** will expose students to the predominant chemistry conducted in Puerto Rico at the university level as well as in industry. The culture, history and lifestyle of the host country population will be experienced through travels across the entire country, visits to historical sites, museums, landmarks, old San Juan, restaurants, industry, universities, a rainforest, a bioluminescent bay, caves and the largest radio telescope in the world. These other scientific locations of interest are to be visited to increase the exposure to the interdisciplinary nature of science in Puerto Rico.

Half of the course grade will be based on learning the “Essentials of Pharmaceutical Chemistry” as described in a short textbook of the same title to be used for the study abroad course. The remaining half of the grade will be based on reflection of each part of the trip.

**Courses:**
Three hours of credit will be given for an upper division chemistry course, **CHEM 3200** Prerequisites include CHEM 3361 or permission of the instructor.

**NOTE:** All undergraduate students must have and maintain at least a 2.0 GPA to be eligible for this program. If you are taking this course for graduate credit, you must have and maintain at least a 3.0 GPA to be eligible.

**Program Dates**
Course Dates: May 16 – June 1, 2011
Travel Dates: May 16-27, 2011
(subject to slight change):

**Program Cost:**
*** Tuition is paid separately. Cost is subject to change. ***
$2200.00 and includes airfare, accommodations, some meals, lectures, tours, all ground transportation and admissions fees.
Contact: Dr. Koether mkoether@kennesaw.edu or Dr. Powers jpowers@kennesaw.edu
Study Abroad Opportunities

Why Not Germany?
MUNICH, BREMEN, HAMBURG, BRAUNSCHWEIG, BERLIN

This fifteen-day summer program is being set up to become a rich and diverse living, educational and cultural experience in Germany, a country that had and continues to have a profound impact on our knowledge and understanding of chemistry and the application of the chemical sciences. Students participating in the program will learn about the history of their chosen field of study as well as the recent technological advances in the field. This program incorporates visits at some of the most prestigious academic and research institutions in Germany (the Humboldt University of Berlin, University of Munich and University of Braunschweig - Institute of Technology) and two chemical companies (Thermo Fisher Scientific - Bremen and Bayer Pharma-Berlin). In addition, the students will participate in a broad range of cultural activities, including field trips to the German Museum in Munich (the world’s largest museum of technology and science), excursions to cultural sites in Munich, Bremen, Hamburg, and Berlin as well as a six day stay in Braunschweig (Germany's City of Science in 2007). Here the students will have the opportunity to visit and work in different academic research labs and to meet, exchange impressions and discuss topics of common interest with German students. They will also attend lectures and guest lectures. The students will use this opportunity to collect information for their projects whose theme will be decided at the meeting hold before leaving for the study trip.

Program Dates:
Course Dates: May 9 - 23, 2011 (subject to slight change):

Program Cost:
*** Tuition is paid separately. Cost is subject to change. ***
$3200.00 and includes airfare, accommodations, some meals, lectures, tours, all ground transportation and admissions fees to cultural venues.
Contact: Dr. Tapu dtapu@kennesaw.edu

NOTE: All undergraduate students must have and maintain at least a 2.0 GPA to be eligible for this program. If you are taking this course for graduate credit, you must have and maintain at least a 3.0 GPA to be eligible.


Koether, Marina; Fraser, Dayne Owens, Amanda; Murphy, Richard. Charge Neutralization Study of Mixtures of Al$_{13}$ with Alum, Journal of Undergraduate Chemistry Research, 2010, 9(2), 52-54.


Khanna I. K.; Alexander, C. W. “Fatty Acid Amide Hydrolase Inhibitors – Progress and Potential,” CNS & Neurological Disorders - Drug Targets
The Annual Fall Showcase of Undergraduate Research was held for the second time on November 19th, 2010. Four research based presentations and fourteen class project presentations (Instrumental Analytical Chemistry Laboratory and Pharmaceutical Analytical Chemistry Laboratory) were judged.

The **Outstanding Research Poster Award** went to **Chelsea Oliverio** and **Dr. Brian Keller** for their research on Silver Nanoparticle Surface Plasmon Resonance in a Fiber-Optic Capillary. The **Best Research Poster Award** went to **Ahmed A. Ali, Jessica S. Carter, Amanda N. Barrett, Sergey A. Isarov**, and **Dr. Gregory Gabriel** for their research on Comparing Uncharged and Cationic Phosphonated Polymers as Fire-retardants.

All the winning **Class Project Poster Awards** were awarded to students in Dr. Msimanga’s Instrumental Analytical Chemistry Laboratory Course. The **First Place Project Poster Award** went to **Adam L. Chadwick, Ashleigh E. Jowers**, and **Vera Koganov** for Electrochemical Characterization of a New Diquinone Fused Imidazolium Salt. The **Second Place Project Poster Award** went to **Josh Valencia** and **Maruf Chowdhury** for Comparative Study of Multivariate Techniques for the Analysis of Dimetapp Cough Suppressant. The **Third Place Project Poster Award** went to **John Ballard, Beau Routh**, and **Joanna Bronny** for Mercury and Lead Concentrations in the Etowah River between Lake Allatoona and an Upstream Coal Fired Power Plant. An **Honorable Mention** went to **Ryan Shallies** and **Josh Francis** for Method development for the solid phase extraction of bisphenol-A from water.
The Beta Upsilon Chapter of Phi Lambda Upsilon, the chemistry honor society that received its charter in 2003, is pleased to announce the 15 new members who were inducted at a ceremony on Tuesday, October 26th. Osa Dawodu, President, Michele Gouws, Vice-President, Mark Segall, Secretary, Maria Quiroz, Treasurer and Dr. Nancy Jo Kirk and Dr. Deborah Bromfield-Lee, co-councilors, led the induction to welcome Elizabeth Bennett, Mahatab Chowdhury, Katherine Drupiewski, Jacob Hicks, Eric Hoffer, Sergey Isarov, Melissa Missinne, David Oso, Andrea Peacock, Emily Rye, Saeideh Sarraf-Mamouri, Alexandr Surin, Bryan Tucker, Clarisse Valdivieso, and Mary Babb Visscher. We were pleased that Interim Dean of the College of Science and Mathematics, Dr. Ron Matson, and Associate Dean and Director of ATOMS Center, Dr. Adrian Epps, could join us as well as Dr. Mark Mitchell, Chair of the Department of Chemistry and Biochemistry and several faculty members and guests of inductees. Our appreciation goes to Ms. Michele Gouws who organized the event and Ms. Wanda Sexton who handled setup and served as hostess. Future activities of Phi Lambda Upsilon include chemistry demonstration events in local schools, a dinner meeting of the Georgia Section of the American Chemical Society, and social events with the Student Affiliates of the American Chemical Society (SAACS). A recent popular event was pizza and a movie—Hitchhiker’s Guide to the Galaxy— in the Clendenin Building.

September 9, 2010 - Dr. Shane Foister, The University of Tennessee, Knoxville presented a seminar titled: “What a difference a carbon makes- triazole and triazine ligands in molecular catalysis”

October 28, 2010 - Dr. Michael Best, The University of Tennessee, Knoxville presents a seminar titled “Chemical approaches to the investigation of protein-membrane binding interactions using synthetic lipid probes”.

November 4, 2010 - Dr. Timothy Long, The University of Georgia presents a seminar titled “Synthesis and Evaluation of New Antibacterials for Multi-Resistant Infections”.

November 18, 2010 - Hans Cooper, KSU Student Intern and summer intern at CDC and Dr. Hubert Vesper, Chief of the Protein Biomarkers Laboratory in the Division of Laboratory Sciences at the CDC and Prevention a seminar titled “Experience as an Intern at the CDC: Developing a biomarker for Acetaldehyde”
Dr. Jennifer Powers was presented an “Outstanding Service Award” at the annual Herty Award Dinner of the Georgia American Chemical Society. She served as treasurer for the last four years.

Amanda Barrett - Top Poster Award
Aleksandra Mikhaylova - Honorable Mention for her poster.

Alumni

Jacob Blair - 2010 - Accepted into Marine Biology Program at Nova Southeastern
Brian Forsberg - 2010 - Medical student at William Carey University School of Medicine
Michele Gouws - 2010 - MAT student at Kennesaw State University
Haifa Khan - 2010 - Accepted position at Georgia Pacific as a lab technician.
Anh Le - 2010 - Pharmacy student at Nova Southeastern University
Harshad Patel - 2010 - Pharmacy student at Sullivan University
Krystle Roberts - 2010 - Accepted to Franklin Pierce Law School
Israel Scott - 2010 - Ph.D. student at UGA
Jo Wilson - 2010 - Working as Research Specialist Emory Univ. School of Medicine
Mandy Basaly - 2009 - Second year student in Optometry School in Memphis
Stephanie Hanke - 2009 - Accepted into MS in Cell & Molecular Biology at Tulane University
Hilary Herak - 2009 - Ph.D. student at University of Washington
Lewis Kraft - 2009 - Ph.D. student at Vanderbilt University.
Phillip McClellan - 2009 - Ph.D. student at University of Akron
Esha Patel - 2009 - Pharmacy student at Union University
Julie Turner - 2009 - Analytical chemist with Air Quality Sciences in Marietta, GA.
Steve Valdes - 2009 - Pharmacy student at Mercer University
Jennifer Yancey - 2009 - Medical student at Morehouse School of Medicine
Amine Faizi - 2008 - Working at FAI, Inc.
Dustin French - 2008 - Accepted into Nova Southeastern Medical School
Lindsay Harris - 2008 - Working in Forensic Toxicology with the GBI.
Sean Hipps - 2008 - Working for GBI.
AnneMarie Karanja - MBA student at Kennesaw State University
Suk Kim - 2008 - Medical student at Medical College of Georgia
Adam Kleg - 2008 - Working as a compliance officer at Medical Neurogenetics in Atlanta, GA.
Ivett Kyriacou - 2008 - Medical student at UAG
Natalia Kyriacou - 2008 - Medical student at Mercer University
Viet Nguyen - 2008 - MS student at Morehouse College.
Mary Rau - 2008 - P.A. student at South University
Matthew Rosenberg - 2008 - Ph.D student at University of Memphis
Ken Staples - 2008 - Ph.D. student at University of Pittsburg.
Nickolas Smith - 2008 - Doctor of Pharmacy program at East Tennessee State University
Nicole Straub - 2008 - Working as a research technician at Anitox
Caroline Cushman - 2007 - Teaching school in Canton, GA.
Michael East - 2007 - Grad student at Emory University.
Laura Brooks - 2006 - Works in Pharmaceutical Sales at Takeda Pharmaceuticals.
Bradley McKinney - 2006 - MS in Health Science, Emergency & Disaster Mgt. from Touro Univ.
Allen Stokes - 2006 - Medical student at Mercer University.
Ivan Stefanov - 2006 - PhD Research Assistant at Ghent University in Gent, Belgium.
April Stevens - 2006 - PhD student at Clark Atlanta University.
John Cagle - 2005 - Attending Medical School at GA-PCOM.
Kim Kellett Arrowood - 2005 - Working as a lab instructor at Kennesaw State University.
Tiffany Bryant - 2005 - Working as a Laboratory Analytical Chemist at Ajay North America LLC.
Angela Carmack - 2005 - Working at Deerland Enzymes.
Hazem Kanaan - 2005 - Received his D.O. from WV School of Osteopathic Medicine.
Ryan Moore - 2005 - Executive VP at ChemLink Laboratories LLC in Kennesaw, GA.
Turanza Jackson - 2004 - Received ME, Science Education, Georgia State University
Nicholas Marshall - 2004 - Received Ph.D from University of Georgia.
Ikenna Okpareke - 2004 - Received MD from Albany Medical College in Albany, New York.
Kathleen M. White - 1999 - Working as a Senior Scientist, Savannah River National Laboratory.
Nokuthula Msiimanga - 1998 - Received MD from the Medical College of Georgia
Michael Hawks - 1998 - Received MD from the University of South Florida
Guillermo Ramirez - 1984 - Working as a Facility Manager for Ashland, Inc.