Summer Students Hit Record Number

This summer there are a record number of undergraduate students researching in labs. In addition to the REU, INBRE and HHMI students, 44 university chemistry majors are participating in the COBRE Summer Research Experience for Students and Educators funded by the Center for Protein Structure and Function.

Frank Millett is the director of the COBRE program. David Paul and Julie Stenken are the program coordinators of the chemistry and biochemistry REU, and Arkansas INBRE summer program. Paul is also the program director of the HHMI program. Leslie Johnson is the support staff for the 84 students in the above programs.

COBRE REU students
Amanda Anderson
Kristi Anderson
Natalie Brown
Joe Bruton
Bethany Campbell
Joseph Courtney
Clarence Dye
Andrew Gibson
Lauren Hall
Ali Haydar
Rory Henderson
Hannah Henson
Lukas Hockman
Tony Hoyt
Sigrid Johannesen
Matthew Kern
Shigehiro Komatsu
Matthew Marks
Ashley Martfield
Sarenthia McClelland
Sean Mellon
Kyla Morinini
Jared Morphew
Shannon Mumma
Brittany Pasierb
Kyle Peterson
Hannah Rabon
Kevin Regis
Kara Robertson
Tyler Rogers
Ashley Rosenberg
Omar Salem
Jonathan Schmidt
Matthew Sharum
Ryan Shinabery
Mary Smith
Kyleigh Strickland
Lauren Taylor
Galen Tobey
Gavely Toor
Daniel Vo
David Williams
Matt Williams
Whitney Young

Key Division Elements Retire

As of July 1 the biochemistry division is short 50 years of experience with the retirements of Lois Geren, Ph.D. ’81, and Marilyn Davis.

Their contributions in leadership and support have aided the division and department. Both mothers at home came to be mothers in the office as well, mentoring many students and researchers over the years.

Sasa Miladinovic

Sasa Miladinovic successfully defended his doctoral dissertation “Fourier Transform Mass Spectrometry of Polymers and Copolymers” June 2 under the direction of Charles Wilkins.

Miladinovic is from Kragujevac, Serbia, and has a degree from the University of Kragujevac.

He is a postdoc for Yury Tsybin at the EPFL Institute at the University of Lausanne, Switzerland.
Faculty News

Neil Allison completed his term as chair of the university Faculty Senate June 30. Allison continues as vice chair of the department and Liebolt Chair of Premedical Sciences.

Publications


“Novel Modulator of Na\textsuperscript{+}1.1 and Na\textsuperscript{+}1.2 Na\textsuperscript{+} Channels in Rat Neuronal Cells,” H. Mao, L. A. Fieber, R. E. Gawley, ACS Med. Chem. Lett. 2010, 1, 135-138.

On the Go

NIH, NCCR Third Biennial National IDEa Symposium of Biomedical Research Excellence (NISBRE), Bethesda, Md. June 16-18.

The following posters were presented.

Frank Millett presented “Detection of a Proton-Dependent Electron Transfer From CuA to Heme a of Cytochrome C Oxidase Mutant S44E using Ruthenium Photoexcitation.”

Colin Heyes presented “Single Molecule Fluorescence Techniques for Biomedical Research.”

Graduate student Chris Saunders presented “Development of Proteomic Methods for the Discovery of Proteins Containing Methionine Sulfoxide.”

Neil Allison traveled to Sweden in June with the university Health Teams Abroad group.

Chemistry major Alyse Allison was among ten university students in various fields to participate.


Peter Pulay gave opening talk “Accurate Calculation of Pi-Pi Stacking Interaction,” at the Harry King Symposium in Buffalo, N.Y. May 10-11.

Pulay gave another invited talk “Laplace Transform Calculation of the Perturbational Triples (T) Contributions,” at the Molecular Quantum Mechanics 2010 meeting, in Berkeley, Calif. May 24-29.

Joshua Sakon will give a talk “Medical Applications of Collagen Binding Domain from Gas Gangrene Causing Collagenase,” at the 57th Toxin Symposium in Nagahama-shi, Japan July 14-16.

Julie Stenken served on the NIH Enabling Bioanalytical and Biophysical Technologies (EBT) Study Section in Washington D.C. June 10-11.


Patents

Instructor Mya Norman was granted a U.S. Patent 7718047 “Electrochemical High Pressure Pump” May 18.

Norman shares this with co-inventors, Carl A. Koval, Christine E. Evans and Richard D. Noble.

The invention is licensed to SFC Fluidics and was made possible with the assistance of the Technology Transfer office at CU-Boulder.

From the Library by Luti Salisbury

A poster exhibit of the scholarly achievements of Drs. Kumar and Tian, who recently were granted tenure and promoted to associate professors, is on display in the Chemistry and Biochemistry Library (CHEM 225).

The displays highlight their publications, publication productivity by year, two top cited papers, two of their recent publications, collaborators and collaborating institutions and the journals in which they published ranked by the number of publications in them. The display also has a snapshot of the number of times their publications were cited each year and their H-indexes. The H-index is used to measure the productivity of an individual, group or institution. An index of 20 indicates that an author or group of authors have 20 publications which received 20 citations or more.

Check-out our newest site on safety that has resources relating to lab and radiation safety. Please submit your favorite resources to Luti Salisbury (lsalisbu@uark.edu) if it is not on this guide. http://uark.libguides.com/safety

The libraries have recently added access to the Reaxys Chemistry database from Elsevier, which provides access to chemistry information dating back to the 18th century.

- **Beilstein** - organic carbon compounds, drawn from the journal literature back to the 18th century.
- **Gmelin** - inorganic and metal-organic compounds, drawn from the journal and patent literature back to the early 19th century.
- **Patent Chemistry Database** - A combined file of English-language patents, supplemented by older patents drawn from Beilstein and Gmelin.

Safety Tip

If you must remove a hood sash component return it ASAP.
The hoods are designed to work with all windows in place.
Student News

Undergraduate Degrees Awarded

Bachelor of Arts
Ashley Brown
Rachel McCorkle
Kimberly Schleif

Bachelor of Science
Maher Abulibdeh
Khahn Do
Andreas Eiberweiser
P. Ford
Thomas French
Amy Harsh
Mary Howard
Isabelle Huber
Matthias Knust
Rosalba Ocampo
Keila Payne
Mallorie Sloan
Brian St. Clair
Peter Tran
Sidney Winford Magna Cum Laude

Four Year Honors Scholars
Andrew Avery Summa Cum Laude
Geri Burkett Magna Cum Laude
Jacob Burns Magna Cum Laude
Andreas Chen Magna Cum Laude
Thomas Fleri Cum Laude
Rodney LaGrone Magna Cum Laude
Jaime Nelson Magna Cum Laude
Courtney Peterson Cum Laude
Iryna Polyakovka Magna Cum Laude
Latisha Puckett Cum Laude
Christina Ragland Summa Cum Laude
John Sherrill Cum Laude
Jessica Sutton Cum Laude

Departmental Honors
Ryan Bauer Cum Laude
Ryan Boswell Cum Laude
Joshua Brown Cum Laude
Kaitlin Castleberry Cum Laude
Courtney Chandler Cum Laude
Cory Garren Cum Laude
Katie Hamblin Cum Laude
Kellie Ong Summa Cum Laude
Olena Pickett Summa Cum Laude
Elizabeth Srader Magna Cum Laude
Hiroko Takeuchi Cum Laude
Natalie White Cum Laude

Minor in Chemistry
Amanda Cains
Christopher Scarborough Summa Cum Laude

Fulbright College Dean’s List
This spring 73 undergraduate chemistry majors, or 26%, made the Fulbright College Dean’s list for earning a 4.0 GPA during the semester.

| Shaun Adams | David Hopkins |
| Alyse Allison | Lawrence Hoyt |
| Andrew Avery | Sigrid Johannesen |
| William Bickell | Thomas Jones |
| Thomas Broja | Devin Kennedy |
| Rose Brorsen | Kelsey Knewton |
| Joshua Brown | Rodney LaGrone |
| Kaitlyn Bryant | Rebekah Langston |
| Courtney Cagle | Jacob Lavender |
| Amy Carr | David Lee |
| Kaitlin Castleberry | Ashley Martfeld |
| Courtney Chandler | Matthew McMahon |
| Brooke Chaney | Rhys Moore |
| Stephen Dalby | Shannon Mummia |
| Arshan Dehbozorgi | Devin O’Dea |
| Samuel Dunn | Kellie Ong |
| Amir Francis | Kaila Pianalto |
| Cory Garren | Andrew Price |
| Tristan Geis | Derek Pyland |
| Lauren Hall | Daniel Rackl |
| Ross Harmon | Christina Ragland |
| Ali Haydar | Ettore Rastelli |
| Casey Henderson | Clint Riley |
| Rory Henderson | Kaila Robertson |
| Hannah Henson | Jeffrey Roeser |

* List does not include those students with FERPA restrictions

Athletic Department Honor Roll

Kim Schleif, soccer, and Ben Skidmore, men’s track and field, were among the nearly 200 Razorback student-athletes who posted a 3.0 GPA or above for the 2010 spring semester earning a spot on the athletic department honor roll.

Beuteraugh Wins Wing Challenge

In June, graduate student Aaron Beuteraugh took home the trophy at a local wing-eating contest after consuming one dozen hot wings in three minutes.

Beuteraugh, graduate student David Clay and postdoc Dan Eddings were among four finalists selected after winning preliminary rounds this spring.

Wingfest is sponsored by a local radio station with proceeds benefiting the Alzheimer’s Association and Seven Hills Homeless Shelter.

Staff News

Administrative Support Supervisor Heather Jorgensen was elected to the Staff Senate as an at-large representative. Her three-year term began July 1.

The Staff Senate was officially recognized by the Board of Trustees in 1995 to act as a representative organization for classified and non-classified staff at the Fayetteville campus, and to participate in institutional policy matters affecting staff.

At right: Heather Jorgensen
Calendar of Events

July
01..................... Last day to drop a SSII course without a “W”
05..................... Independence Day, university closed
22..................... Summer student combined poster session and luncheon
23..................... Scientist Solutions vendor show
26..................... Last day to drop a SSII class with a “W”

August
06..................... Last day SSII
22..................... Last date to receive 100% cancellation of fees for an official withdrawal for fall 2010
23..................... First day fall semester
27..................... Last day to register or add a full semester class
30..................... Fall seminar series begins

The above dates and events are listed on the department’s Blackboard site
https://courses.uark.edu/

July Birthdays
01.................Roger Koeppe
10.................Mack Clements
15.................Aaron Beuterbaugh
20.................Joshua Sakon
24.................Anupama Aggarwal
27.................Anna Daily
29.................Marv Leister

The publishing of birthdays is not intended to invade the privacy of anyone. If you prefer not to be included, please let us know.

Library Hours
CHBC Library (CHEM 225)
http://libinfo.uark.edu/chemistry

Summer hours (May 17 - August 18)
Saturday-Sunday .......CLOSED
Monday-Thursday ......8 a.m. to 6 p.m.
Friday .........................8 a.m. to 5 p.m.

Life Science Tech Exhibit
Scientist Solutions Events will host a Life Science Tech Exhibit to showcase new and emerging technologies launched in early 2010, Friday July 23, 11:30 a.m. to 1 p.m. in CHEM 105
All are invited and to drop by to visit with vendors including VWR International, Gilson, BioTek, RAININ, EMD, IDT and Sanyo.

Let the Music Play
Check out the university Libraries’ collection of American Song Online
http://libinfo.uark.edu/eresources/help.asp?TitleCode=AlexStAMSO
This is a unique compilation of almost 100,000 recordings of country, folk, bluegrass, and gospel to jazz, old-time, American Indian, children’s songs, and more. Coverage includes songs from the pre-colonial period to modern day.
American Song online includes recordings from labels like Folkways, Smithsonian, Stax, Arhoolie and artists such as Patsy Cline, Rosetta Tharpe, Johnny Cash, Leadbelly, Louis Jordan and Clifton Chenier.

Clean Air Act to be Enforced August 1
Attention smokers, smoking on campus will be illegal under new state law going into effect August 1. This new law means that university police officers can and will write tickets to anyone caught smoking on campus property. Violators of the state “Clean Air on Campus Act of 2009” will be subject to a fine of not less than $100 and no more than $500.
The campus has been tobacco free as outlined by policy since mid-summer 2008. It was one of the first major institutions of higher education in the country to prohibit all tobacco use, including smokeless tobacco, on all campus property.

The department of chemistry and biochemistry at the University of Arkansas strives for excellence in research, teaching and service in chemistry — the central science.
We aspire to positions of leadership regarding the discovery of new scientific knowledge, the training of students, and the economic development of the State of Arkansas.
We seek to recruit and retain a diverse group of the best faculty, students and staff to address the challenges of the future through interdisciplinary and multidisciplinary research and education.