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THE MOLE STREET JOURNAL

DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

AUGUST 2009

VOLUME 8, ISSUE 8

REU Tony Jude Award

Trent Parker of Columbia, Ill., received the 2009 Tony Jude Award for outstanding research. His research “Catalytic Dynamic Thermodynamic Resolution of N-Boc-2-Lithiopiperidine,” was under the direction of **Bob Gawley**. Parker is a student at St. Louis University.

The award was created in 2002 to honor alumnus and former REU student **Anthony Jude**, Ph.D. '98, who passed away in 2001 at the age of 30. He participated in the department REU in 1992. At the time of his death, he was an assistant professor of chemistry at UALR.



David Paul with Trent Parker

Graduate Students Defend

David Bateman defended his dissertation “Investigating Eunicellin Diterpene Natural Products: Simplified Analogsof Sclerophytin A and Synthesis of Massileunicellin D,” under the direction of **Bob Gawley**, July 1.



David Bateman



Shuming Zhang

Bateman has a bachelor's degree from Henderson State University and is a native of Hot Springs. He is an assistant professor of chemistry at Henderson State University.

Shuming Zhang defended his dissertation “Prediction of pKa Values for Drug Candidate Molecules,” under the direction of **Peter Pulay**, June 18. Originally from Beijing, China, Zhang has a bachelor's degree from Zhejiang University and an master's degree from Peking Union Medical College.

He will soon join his wife **Hong Gu**, Ph.D. '08, in Cleveland, where he has accepted a postdoc position in the medical school at Case Western Reserve University.

Alumni News

Third-year medical students **Juan Chipollini**, B.S. '07, and **David Vester**, B.S. '07, are among the first six students to study at UAMS-Northwest. The new campus will result in additional medical residents and health care professionals in Northwest Arkansas, which will lead to improved access to patient care in area clinics and hospitals.

Rebecca Danforth, B.S. '04, graduated with a doctorate from the university in cell and molecular biology. She will be a postdoc in Bo Xu's lab at the Methodist Hospital Research Institute in the Texas Medical Center in Houston.

Stella Huff Nuckels, Ph.D. '09, has accepted an assistant professorship at Middle Georgia College.

Rachel Thomas, B.S. '09, received the 2009 Teaching Academy Undergraduate Research Award from the university. She will pursue an MD/Ph.D. at UT Southwestern this fall.

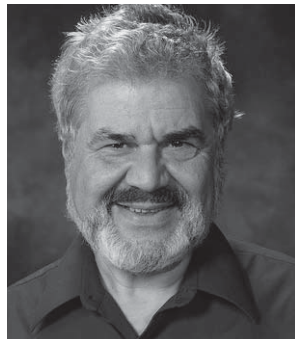
Nathan Tobey, B.S. '09, will attend medical school at UT Southwestern.

More alumni news inside

Faculty News

Derek Sears received the 2009 Service Award of the Meteoritical Society at the 72nd annual meeting of the society in July in Nancy, France.

This award, established in late 2005, honors members who have advanced the goals of the society to promote research



Derek Sears

and education in meteoritics and planetary science in ways other than by conducting scientific research. Winners are granted lifetime membership.

The following were presented with faculty in

physics and the Arkansas Center for Space & Planetary Sciences “Asteroidal Origins for Carbonaceous Chondrites,” and “S Asteroids: Are Some of the Missing Melts UOC?.”

On the Go

Collagen Gordon Research Conference - July 19-24, New London, NH. The following posters were presented:

Joshua Sakon presented “Single Injection of PTH-CBD Increases Bone Mineral Density and Remain Anabolic for 12 Months in Mice.”

Leena Philominathan presented “Collagenase Targets ‘Untwisted’ Triple Helical Collagen.”

Undergraduate **Ryan Bauer** presented “Crystal Structure of the Collagen Binding Domain Derived from *Clostridium Histolyticum* (ColH).”

The 23rd Annual Symposium of The Protein Society, Proteins in Motion - July 25-29, Boston

The following undergraduates in the **Kumar** lab made poster presentations - **Andrew Avery, Cory Garren, Natalie White** and biological sciences student **Amen Ismail**.

Matt McIntosh presented a poster “Toward a Documentary on Total Synthesis,” at the Gordon Conference on Natural Products, July 26-30. He will give a talk on the subject at the National ACS Meeting in Washington D.C. August 19.

Nan Zheng gave a talk and chaired a session at the 5th Sino-US Symposium on Organic Chemistry in Lanzhou, China in June.

APSI Teachers Take Safety Audit Class

This summer junior high and high school chemistry teachers took part in the university’s 11th annual Advanced Placement Summer Institute (APSI) with the goal of learning how to help their students get the most out of high school advanced placement courses. The Honors College sponsors the program and the department offers lab space and materials.



Nicole Richardson conducts the class with APSI teachers

New this year, the teachers took the Safety Audit Class recently created by lab coordinator **David Hayes**, and Environmental Health and Safety (EH&S) compliance officer **Rick Williams**, with assistance from graduate students **Nicole Richardson** and **Beth Emerson**.

The class reinforces lab safety issues and violations. Participants tour a mock lab to identify violations after viewing a sideshow and participating in a Q & A session.

Violations can be costly to the university – a single violation by EH&S can cost \$27,500 per day.

The APSI teachers benefit by emphasizing safety issues in their own labs and the class coordinators gain valuable feedback about the instruction.

Safety first is the main goal. All university students enrolled in a lab must pass a separate safety quiz before they can take part in lab courses. This fall more than 1200 students will take the quiz.

The slides are posted on the department Blackboard site. Those interested in taking the class should contact David Hayes rdhayes@uark.edu.



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Safety Tip

If you use safety equipment or supplies, please report the use so that items can be restocked

Alumni News

Matthew Brimberry, BS '05, graduated from UT San Antonio medical school in May where he received the David Alexander Major Award for exemplary medical student entering family medicine. He started his residency at JPS Family Medicine Residency in Fort Worth July 1. In February, a new addition was added to his family with the birth of Evelyn Fay. Brimberry and his wife also have a son Daniel who is two.

Weihong Gong, Ph.D. '02, is now a principle investigator in analytical chemistry at Xenoport Inc. in Santa Clara, Calif.

Neil Tracy, B.S. '05, graduated from UAMS in July and has started his residency in pediatrics at Arkansas Children's Hospital.

Class of 2009 Career Plans

- **Hannah Duke** is pursuing a degree in Spanish.
- **Jacqueline R. Duncan** will study health administration at the University of Georgia.
- **Whitney Gammill** is pursuing a doctorate in biochemistry at Vanderbilt University.
- **Brittany Goings** will attend pharmacy school at UAMS.
- **Christena Hooten** is pursuing an MAT at the University of Arkansas.
- **Christopher Knapp** is in the Peace Corps in South Africa.
- **Jessica Preston** will attend pharmacy school at Texas Tech.
- **Barry Sharp** will be a graduate student in the department.

- **Sean Stevens** is living in Freiberg, Germany.
- **Maria Super** will attend osteopathic school at Pikeville College.

- UAMS Medical School

Tammy Binz
Kyle Blair
Laura Bradney
Emily Edwards
Christopher Hall
Caroline Nardi
Miles Ritter
John Shellenberger
Kent Smith
Adam Zimmerman

From the Library by Luti Salisbury

SciFinder - We now have access to SciFinder (Chemical Abstracts) on the web for two simultaneous users. You can connect from campus and off-campus to this database. However, you will need to complete a registration each time you log in by using the user name and password

Please note the copyright notice for this database at the bottom of the page. We continue to have access to the client based Scifinder as before for two simultaneous users also.

<http://libinfo.uark.edu/eresources/scifinderweb.asp> (This URL is accessible only from campus as per CAS)

New Acquisition - *Nature Chemistry* from vol. 1. Check it out through InfoLinks

Finding Dissertations and Theses using InfoLinks - You can find every dissertation/theses done at the University of Arkansas (Fayetteville) in the online catalog, InfoLinks. You will notice that many of the dissertations and some theses can be read or downloaded electronically.

These are identified as Internet Resource under Location in the display. Use the following to search for dissertations and theses:

- subject, select keyword search and type: thesis and gramici-din and analysis
- accepted by the department of chemistry and biochemistry, select Subject search and type: dept: chemistry
- supervised by a professor, select: Subject search and type: advisor: Durham
- by author and title in InfoLinks using a title or author search respectively.

If you wish to search for dissertations/theses from other universities, use ProQuest Dissertation and Theses (Digital Dissertations) 1861-present.

To access this database electronically, start from the library's homepage (<http://libinfo.uark.edu>), then select Databases by Subject, then Chemistry, then Dissertations and Theses.

Library Instruction for New and Continuing Students - contact Luti Salisbury, the CHBC librarian, lsalisbu@uark.edu or call 5-8418 to set up an instruction session for your students or your team. Contact the librarian for help with any resource.

Home Notes

Denise Greathouse now has six grandchildren. Macy Melissa Swann was born June 20 to her son Jesse Swann and his wife Teresa. Baby Macy weighed 6 lbs. 4 oz. and was 20 1/4 inches long.



Macy Swann

Calendar of Events

August

- 07..... Last day of SSII courses
 07..... Last day to officially withdraw from all SSII courses.
 19-28 Open registration for fall 2009
 21..... Meet the new graduate students luncheon
 24..... Fall classes begin
 28..... Last day to register for a full semester course
 31..... Department seminar series begins

Fall At-A-Glance

September

- 04..... Last day to drop a full semester course without a "W"
 07..... Labor Day Holiday, university closed
 22..... First day of the fall season

October

- 02..... Application deadline for graduation at the end of fall 2009
 07..... Early progress grades e-mailed for 1000 and 2000 level courses
 08..... Department picnic, Agri Park
 23-24 Arkansas INBRE Research Conference
 30..... Last day to drop a full semester course with a "W"

November

- 01..... Daylight time ends
 02..... Priority registration for spring 2010
 25..... Fall break, no classes, university is open
 26-27 Thanksgiving holiday, university is closed

December

- 08..... Last day of fall classes
 08..... Last day to officially withdraw from all courses
 09..... Dead day, no classes
 09..... Department potluck
 10-16 Final Exams
 21..... First day of the winter season
 24-31 University closed

The above dates and campus and area events are listed on the department Blackboard site <https://courses.uark.edu/>

Meet the Graduate Students Luncheon

Plan to meet the new graduate students at a department luncheon at noon, Friday, August 21 in CHEM 105 and the administrative suite.

Reminders for the Fall Semester

- If you plan to use Blackboard to post course materials, register your course early <http://bbsupport.uark.edu/request/>.
- Remember to send a copy of the course syllabus to Heather Jorgensen.

August Birthdays

- 02.....Frank Millett
 04.....Susan Grisham
 09.....Rachel Ellis
 11.....David Parette
 11.....John Hutchison
 14.....Grace Ong
 14.....Charles Wilkins
 17.....Joseph Smeal
 19.....Neil Allison
 21.....Maha Shrestha
 22.....Paul Adams
 23.....Jerry Homesley
 27.....Jennifer Sims

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 (through August 7)

Monday-Thursday8 a.m. to 6 p.m.
 Friday8 a.m. to 5 p.m.
 SaturdayCLOSED
 Sunday.....CLOSED

Interim hours (August 8-23)

Monday-Friday8 a.m. to 5 p.m.
 SaturdayCLOSED
 Sunday.....CLOSED

Regular fall hours (begin August 24)

Monday-Thursday8 a.m. to 9 p.m.
 Friday8 a.m. to 6 p.m.
 SaturdayCLOSED
 Sunday.....2 p.m to 6 p.m.

Exceptions to fall hours

September 6-7CLOSED
 November 24-258 a.m. to 5 p.m.
 November 26-29CLOSED

CUMES

The cumulative exams for graduate students will be the following Fridays from 5 p.m. to 6 p.m. in CHEM 144

Fall

September 11
 September 25
 October 16
 November 20
 December 4

Spring

January 22
 February 5
 March 5
 April 9
 April 23