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## Mole Street Journal, June 2009

University of Arkansas, Fayetteville. Dept. of Chemistry and Biochemistry

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# The Mole Street Journal

Volume 8, Issue 6

## Commencement 2009



Nathan Tobey and Miles Ritter



Andreas Chen, Rachel Thomas, Laura Bradney and Caroline Nardi

### Ritter Gives Address

Graduating senior **Miles Ritter** gave the greetings from undergraduates address at the all university commencement May 9.

### First Ranked Senior Scholars

**Miles Ritter** and **Nathan Tobey** received the distinction of First Ranked Senior Scholar, an honor given to a students who earned a 4.0 GPA for the baccalaureate degree with all coursework being completed on campus. The two were among 33 students to mark this achievement.

### Phi Beta Kappa

The following students were inducted into the Alpha of Arkansas Chapter of Phi Beta Kappa, May 8. Inductees must be nominated and be in the top 10% of the senior class. The society, founded in 1776, is the oldest Greek Letter fraternity in America.

<b>Tammy Binz</b>	<b>Olena Pickett</b>
<b>Kyle Blair</b>	<b>Miles Ritter</b>
<b>Andreas Chen</b>	<b>Rachel Thomas</b>
<b>Whitney Gammill</b>	<b>Nathan Tobey</b>
<b>Christopher Hall</b>	

### Honor Graduates

The following students and mentors were recognized at the Fulbright College Honors Commencement May 8.

#### Departmental Honors

- **Kyle Blair** *Summa Cum Laude*  
Mentor Tim Kral (BIOS)
- **Ryan Duncan** *Cum Laude*  
Mentor Paul Adams
- **Lauren Edwards** *Cum Laude*  
Mentor Paul Adams
- **Christopher Hall** *Summa Cum Laude*  
Mentor Frank Millett
- **Caroline Nardi** *Cum Laude*  
Mentor Suresh Kumar
- **Miles Ritter** *Summa Cum Laude*  
Mentor Julie Stenken
- **John Marc Shellenberger** *Cum Laude*  
Mentor Ryan Tian
- **Sean Stevens** *Cum Laude*  
Mentor Bob Gawley
- **Maria Super** *Cum Laude*  
Mentor Neil Allison

### Four Year Scholars

- **Tammy Binz** *Summa Cum Laude*  
Mentor Neil Allison
- **Laura Bradney** *Magna Cum Laude*  
Mentor Denise Greathouse
- **Carter Calef** *Cum Laude*  
Mentor Neil Allison
- **Andreas Chen** *Magna Cum Laude*  
Mentor Ryan Tian
- **Hannah Duke** *Cum Laude*  
Mentor Suresh Kumar
- **Thomas Fleri** *Cum Laude*  
Mentor Tim Kral (BIOS)
- **Whitney Gammill** *Summa Cum Laude*  
Mentor Andrew Proctor (FDSC)
- **Christopher Knapp** *Cum Laude*  
Mentor Suresh Kumar
- **Kent Smith** *Cum Laude*  
Mentor Wesley Stites
- **Rachel Thomas** *Summa Cum Laude*  
Mentor Roger Koepppe
- **Nathan Tobey** *Summa Cum Laude*  
Mentor Wes Stites

## Faculty News

### Research News

**Suresh Kumar** is the coauthor of "A Superior Drug Carrier – Aponeocarzinostatin in a Partially Unfolded State Fully Protects The Labile Eneidyne," S. Aranganathan, T. K. S. Kumar, C. M. Huang, C. Yu and D.H. Chin. (2009) *Journal Biomedical Science* (DOI 10.1186/1423-0127-16-48).

Other papers in print from the Kumar lab are below.

"Trichloroacetic Acid-Induced Protein Precipitation Involves the Reversible Association of a Stable Partially Structured Intermediate," D. Rajalingam, C. Loftis, J. Xu and T. K. S. Kumar (2009) *Protein Science* 18, 980-993.

Loftis is a former Carver and REU student.

"Protein Folding does not Prevent the Nonclassical Export of FGF1 and S100A13," A. Kirov, F. Tarantini, M. Landriscina, T. K. S. Kumar, D. Neivandt,

and I. Prudovsky (2009) *Biochemical Biophysical Research Communications* 381, 350-354.

### On the Go

57th ASMS Conference, May 31 - June 4, 2009 in Philadelphia

**Coy Batoy** will present a poster "MALDI FTMS Comparative Analysis of Phospholipid Profiles of *Saccharomyces cerevisiae* Exposed to Cadmium," S. Mariccor Andres B. Batoy, Sabine Borgmann, Karin Flick, Jeffrey J. Jones, Peter Kaiser and Charles L. Wilkins.

**Lakshmi Kannan** will present a poster "Stable Isotope Free Direct MALDI-MS Quantitation of Beta Defensin 2 Regulated by TLR Activation in Chicken Heterophils," Lakshmi Kannan, Rohana Liyanage, Narayan C Rath and Jackson O. Lay.

**Rohana Liyanage** will present a poster "Protein Equilibrium Population Snapshot (PEPS) MS Method for

Measuring Protein Folding Energies using H/D Exchange and Oxidation of Methionine," Rohana Liyanage, Nagarjuna Devarapalli, Latisha M. Puckett, N.H. Phan, Joel A. Starch, Jennifer Gidden, Wesley E. Stites and Jackson O. Lay.

**Saša M. Miladinović** will present a poster "Surface Analysis of Hydrocarbon Plasma Polymers by UV-LDI-FTMS," Saša M. Miladinović, Valérie De Vriendt, Scott A. Robotham, Stéphane Lucas and Charles L. Wilkins.

**Charles Wilkins** and **Nagarjuna Davarapalli** will attend.

**Ryan Tian** gave a seminar at Kansas State University May 7.

He also attended the 215<sup>th</sup> meeting of the Electrochemical Society meeting in San Francisco May 24 to 29.

## Visiting Lecturers

**Latasha Smith**, assistant professor at Central Baptist College is teaching Intro to Biochemistry SSI.

Smith is originally from New Iberia, La. She



Latasha Smith

holds a B.S. from the University of New Orleans, an M.S. in exercise physiology from the United States Sports Academy and a doctorate in physiology and molecular biophysics from UAMS.

Alumnus **Yun Ho Kim**, Ph.D.'03, is a guest lecturer again this summer. Kim is assistant professor at the University of West Alabama. He is teaching Fundamentals of Chemistry, SSI and University Chemistry II, SSII.

## June Safety Tip

**Check the labels on your squirt bottles — make sure they are readable**

## NMR Access Policies

The following instructions are for use of the 300 and 400 MHz NMRs in CHBC G13

**Acknowledge ABI** All users of these instruments should acknowledge financial support from the Arkansas Biosciences Institute, as a core NMR Facility in any publications.

**Walk-up Access** Walk-up access is limited to 1D proton and carbon only. Slots are 15 minutes, with a maximum of two consecutive slots if anyone else is waiting.

Please be courteous to your colleagues. If someone is using the instrument, sign the logbook after his or her name and leave your phone number. When each user is finished, they should call the next person on the list. Check the log book to see if someone else is on the way.

Walk-up Hours - Monday through Friday:

10 a.m. to 4 p.m. - 300 MHz NMR

8 a.m. to 10 p.m. - 400 MHz NMR

**After Hours** Use the on-line Calcium calendar to reserve the NMRs after hours. A link is available on the department Blackboard site.

All 2D experiments must be run after hours and not during walk-up hours. A sample changer is available for the 300 magnet, so multiple samples (either 1D or 2D) may also be run sequentially during an overnight run. 2D experiments should always be run in pulse-gradient mode to save time.

**Notes to All Users** All users must sign the logbook each time they use an instrument. If you do not know how to do a particular experiment, ask Marv Leister or a senior colleague (graduate student or postdoc) for assistance.

## REU/INBRE 2009

The department is again hosting a Research Experience for Undergraduates (REU) summer research program for the 21st consecutive year, funded by the National Science Foundation.

Several students from Arkansas are also participating in The Arkansas IDeA Network of Biomedical Research Excellence (Arkansas INBRE) funded by a grant from the National Center for Research Resources (NCRR), under the Institutional Development Award (IDeA) Program of the National Institutes of Health (NIH).

REU students will make poster presentations of their research July 23.



**Robynetta Hargrave**  
Spring Hill College  
Hometown: Metairie, La.  
Mentor: Paul Adams



**Cynthia Kaeser**  
University of the Cumberlands  
Hometown: Woodstock, Ga.  
Mentor: Charles Wilkins



**Chris Keathley**  
John Brown University  
Hometown: Little Rock  
Mentor: Julie Stenken



**Trent Parker**  
St. Louis University  
Hometown: Columbia, Ill.  
Mentor: Bob Gawley



**Erika Pollard**  
University of West Georgia  
Hometown: Luthersville, Ga.  
Mentor: Matt McIntosh



**Melanie Pund**  
University of Southern Indiana  
Hometown: Ferdinand, Ind.  
Mentor: Ingrid Fritsch



**Andrew Robertson**  
Texas State University  
Hometown: San Marcos, Texas  
Mentor: Suresh Kumar



**Hayden Self**  
Shorter College  
Hometown: Rome, Ga.  
Mentor: Colin Heyes



**Matthew Weaver**  
Benedictine College  
Hometown: Hugoton, Kan.  
Mentor: Julie Stenken



**Thaddeus Vasicek**  
University of Arkansas  
Hometown: Tulsa, Okla.  
Mentor: David Paul



**Kirt Durand - INBRE**  
UAPB  
Hometown: Chicago, Ill.  
Mentors: Roger Koeppel and  
Denise Greathouse



**Jacob Mahaffey - INBRE**  
UALR  
Hometown: Tulsa, Okla.  
Mentor: Mack Ivey (BIOS)



**Aaron McMoran - INBRE**  
UCA  
Hometown: Conway  
Mentor: Jeannine Durdik  
(BIOS)



**Nitish Narula - INBRE**  
SAU  
Hometown: Ghaziabad, Uttar  
Pradesh, India  
Mentor: David McNabb (BIOS)

## Calendar of Events

### June

- 15..... Last day to drop a SSI course with a "W"  
 26..... Last day of SSI classes  
 26..... Last day to officially withdraw from all SSI courses  
 29..... Classes begin for SSII  
 29..... Sigma Xi hosts Chancellor Gearhart  
 30..... Last day to drop a SSII course without a "W"

### July

- 03..... Independence Day holiday, university closed  
 23..... REU research presentations  
 27..... Last day to drop a SSII course with a "W"  
 31..... Deadline to submit dissertations to the Graduate School for August 2009 diploma.

### August

- 07..... Last day of SSII courses  
 07..... Last day to officially withdraw from all SSII courses.  
 19-28..... Open registration for fall 2009  
 24..... Fall classes begin  
 28..... Last day to register for a full semester course

## 2009-2010 Holiday Schedule

The university will observe the following holidays during the period July 1, 2009 through June 30, 2010. For more information see <http://hr.uark.edu/HolidaySchedule/>

- July 3, 2009 Independence Day
- September 7, 2009 Labor Day
- November 26, 2009 Thanksgiving Day
- November 27, 2009 Thanksgiving Holiday
- December 24, 2009 Christmas Eve
- December 25, 2009 Christmas Day
- December 28, 2009 In lieu of Veteran's Day
- December 29, 2009 In lieu of employee's birthday
- December 30, 2009 Charged to annual leave
- December 31, 2009 Charged to annual leave
- January 1, 2010 New Year's Day
- January 18, 2010 Dr. Martin Luther King's Birthday
- March 26, 2010 Friday of Spring break, in lieu of George Washington's/  
Daisy Gatson Bates' Day
- May 31, 2010 Memorial Day

## Sigma Xi to Host Chancellor

The UA Chapter of Sigma Xi will host Chancellor G. David Gearhart for a presentation on his views on the current status of and future plans for research on campus.

The event is Monday, June 29 from 2 p.m. to 3 p.m. in CHEM 132. The campus community is invited.

## June Birthdays

- 02.....Jose Aldana  
 03.....Lorraine Brewer  
 08.....Fei Zhao  
 09.....David Hayes  
 18.....Roger Williams  
 28.....Samrat Thapa  
 29.....Wally Cordes  
 29.....Derrel Walters  
 30.....Kristopher Keen

*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

### Chemistry and Biochemistry

- Monday-Thursday.....8 a.m. to 6 p.m.  
 Friday.....8 a.m. to 5 p.m.  
 Saturday.....CLOSED  
 Sunday.....CLOSED

Exceptions to summer hours  
 July 3.....CLOSED

Fall hours begin August 24

<http://libinfo.uark.edu/chemistry/>

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.