

# THE MOLE STREET JOURNAL

DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

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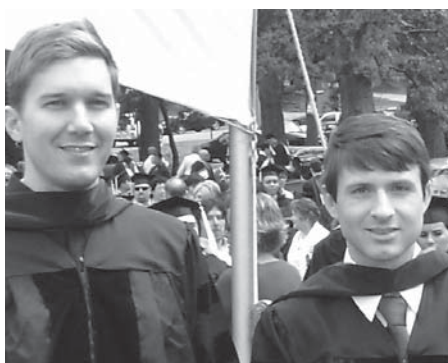
## Commencement 2010



From left: Katie Hamblin, John Sherrill, Geri Burkett, Carter Ford, Jaime Nelson, Bill Durham, Rosalba Ocampo and Tyler Rogers



Ingrid Fritsch and Matt Gerner (MicroEP)



Andy Williams and Ryan Farris



Elizabeth Srader and Jessica Sutton

## Gann Defends Dissertation



Steve Gann

**Steve Gann** successfully defended his doctoral dissertation "Electrode Materials and Oxygen Sensing," May 13. His research was performed under the direction of **David Paul**.

Gann began his graduate studies in 2007. He is from Russelleville and will join the faculty at Arkansas Tech.

## Phi Beta Kappa

The Phi Beta Kappa Alpha Chapter of Arkansas inducted eight chemistry majors into the society this spring. There were 82 total initiates in the 2010 class.

Chapter members must be invited and be seniors in the Fulbright College. Initiates rank in the top ten percent of their graduating class. Undergraduate research and special academic experiences are also considered.

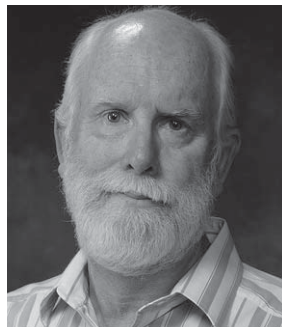
**Andrew Avery**  
**Geri Burkett**  
**Courtney Chandler**  
**Rodney LaGrone**

**Christina Ragland**  
**John Sherrill**  
**Elizabeth Srader**  
**Jessica Sutton**

## Faculty News

### ACS Division Co-Chair

**Bob Gawley**, has been appointed to the position of program chair-elect for the



Bob Gawley

organic division of the American Chemical Society (ACS).

As chair-elect, he will be responsible for organizing the organic division

poster session at the next four national meetings.

The division poster session typically has 500 presentations at each meeting.

In 2013, he will advance to chair, where he will be responsible for organizing the entire organic division program. For all four years, he will serve on the executive committee of the organic division of the ACS.

### Kumar Gets Gold Medal

**Suresh Kumar** was one of six Faculty Gold Medal recipients honored at the



Suresh Kumar

State and National Awards ceremony and reception in April. The award recognizes outstanding work with undergraduate students.

### Research News

Recent publications by the Koeppe group

“Influence of Proline upon the Folding and Geometry of a Model Transmembrane Peptide,” **Thomas, Rachel** (2009) *Inquiry* 10, 14-20. University of Arkansas.

“Influence of Proline upon the Folding and Geometry of the WALP19 Transmembrane Peptide,” **Thomas, Rachel, Vitaly V. Vostrikov, Denise V. Greathouse, and Roger E. Koeppe II** (2009) *Biochemistry* 48, 11883-11891.

“Changes in Transmembrane Helix Alignment by Arginine Residues Revealed by Solid-State NMR Experiments and Coarse-Grained MD Simulations,”

**Vostrikov, Vitaly V.**, Benjamin A. Hall, **Denise V. Greathouse, Roger E. Koeppe II**, and Mark S. P. Sansom (2010) *J. Am. Chem. Soc.* 132, 5803-5811.

Recent publications by **Julie Stenken**

“How Minimally Invasive is Microdialysis Sampling? A Cautionary Note for Cytokine Collection in Human Skin and Other Clinical Studies,” *AAPS Journal*, 2010, 12, 73-78. **J. A. Stenken**, M. K. Church, C. A. Gill, and G. F. Clough.

“Long-term Calibration Considerations During Subcutaneous Microdialysis Sampling in Mobile Rats,” *Biomaterials*, 2010, 31, 4530-4539. X. Mou, M. Lennartz, D. J. Loegering, and **J. A. Stenken**.

### On The Go

**Colin Heyes** will attend and make a poster presentation at the NIH, NCRRT Third Biennial National IDEAS Symposium of Biomedical Research Excellence June 16-18.

He will also attend and present a poster at the Gordon Research conference on Single Molecule Approaches to Biology, Lucca, Italy June 27- July 2.

**58th American Society for Mass Spectrometry (ASMS) Conference on Mass Spectrometry and Allied Topics** Salt Lake City, May 23-27

The following poster presentations with department authors were made. Presenter is underlined.

“S-adenosylmethionine – Essential in Cadmium Stressed *Saccharomyces Cerevisiae* Cells,” **S Mariccor Andresa Batoy, Rohana Liyanage**, Peter Kaiser, and **Charles L. Wilkins**.

“Optimization in Mass Spectrometry Analysis Of [6,6]-Phenyl C61-Butyric Acid Methyl Ester,” **Evgenia Akhmetova**, Santosh Narasimhachary, Ashock Saxena, and **Charles L. Wilkins**.

“Fragmentation of Polyacrylates by Tandem ESI-FTMS,” **Sasa Miladinovic**, Cynthia Kaeser, and **Charles L. Wilkins**.

“Giant fullerenes as in-situ Internal Calibrants for High Mass Accuracy MALDI-IM-Otofms Tissue Imaging,” **Ernest K. Lewis**, Thomas F. Egan, **Sasa Miladinovic**, Shelley N Jackson, Amina S. Woods, **Charles L. Wilkins**, and J. Albert Schultz.

“Identification of Serum Biomarkers in Poultry with Leg Problems,” **Komal S. Rasaputra**, Narayan C. Rath, **R. Liyanage**, and **J. O. Lay, Jr.**

“Effect of Toll-Like Receptor Agonists on Thymosin beta 4 (Tβ4) Production by Chicken Macrophages,” **Lakshmi Kannan, Rohana Liyanage, Jackson O. Lay**, and Narayan C. Rath.

## Safety Tip

**Laboratory gloves should NOT be worn for an extended time.**

Normally a few minutes of use followed by disposal is appropriate. If something leaks through the glove it will cause significantly more damage because the glove holds the material in contact with the skin.

**Hands should be washed after the gloves are removed**



## Student News

### Research Experience for Undergraduates

The department is hosting an NSF funded REU program for the 22nd consecutive year.

During the 10-week summer program students will do research in the lab of a chosen mentor and attend weekly meetings. In late June, they will travel to central Arkansas for an on-site tour of NCTR.

Outside the lab, the group will go canoeing, bowling, roller-skating, and visit Devil's Den State Park and Lake Fayetteville.

Summer students in the HHMI, REU and INBRE programs will present their research in a combined poster session Thursday, July 22. There are four INBRE students on campus in other departments.

Current institutions, hometowns and campus research mentor are listed below. Not pictured is **Amanda Hicks**, a student at John Brown University whose hometown is Colorado Springs, Colo.

### Student Selected for Harvard Workshop

Doctoral candidate **Randy Francisco Espinal Cabrera** has been selected to participate in the Fulbright Workshop on Effective University Teaching in STEM (Science, Technology, Engineering, Math) Fields, at Harvard University June 27 to July 3. His research is under the direction of **Julie Stenken**.



His selection as a Fulbright Grantee was by the Western Hemisphere Fulbright Program at the U.S. Department of State in coordination with LASPAU Academic and Professional Programs for the Americas.

LASPAU is a nonprofit organization affiliated with Harvard University with the mission of providing access to global education opportunities, stimulating knowledge generation and transfer, and promoting intercultural understanding throughout the Americas.

Randy Espinal Cabrera

## REU Students



**Eric Berget**

Minnesota State University  
Hometown: Detroit Lakes, Minn.  
Mentor – Charles Wilkins



**Jean-Marie Charles**

Cameron University  
Hometown: Roseau, Dominica  
Mentor – Nan Zheng



**D.J. Crowell**

Lyon College  
Hometown: Wynne  
Mentor – Peter Pulay



**Anna Fielder**

University of Arkansas  
Hometown: Fayetteville  
Mentor – Bob Gawley



**Rebecca Foos**

John Brown University  
Hometown: Fort Collins, Colo.  
Mentor – Matt McIntosh



**Jared Kafader**

Elmhurst College  
Hometown: Mt. Prospect, Ill.  
Mentor – Roger Koeppel



**Erika Russell**

Bethune-Cookman University  
Hometown: Grand Rapids, Mich.  
Mentor – Paul Adams



**Maria Williams**

Texas Southern University  
Hometown: Baton Rouge, La.  
Mentor – Frank Millett  
\* *George Washington Carver intern*

## Calendar of Events

### June

- 14..... Last day to drop a SSI course with a "W"  
 24..... Lois Geren retirement party  
 25..... Last day SSI  
 27..... Last day to receive 100% cancellation of fees for summer session II  
 28..... First day SSII  
 29..... Last day to register for SSII

### July

- 01..... Last day to drop a SSII course without a "W"  
 05..... Independence Day, university closed  
 22..... Combined poster session and luncheon  
 23..... Scientific Solutions vendor show  
 26..... Last day to drop a SSII class with a "W"

### August

- 06..... Last day SSII  
 23..... First day fall semester

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

## 2010-2011 Holiday Schedule

The University of Arkansas will be closed in observance of the following holidays during the period July 1, 2010 through June 30, 2011:

- July 5, 2010 - Independence Day
- September 6, 2010 - Labor Day
- November 25, 2010 - Thanksgiving Day
- November 26, 2010 - Thanksgiving Holiday
- December 24, 2010 - Christmas Eve
- December 27, 2010 - Christmas Day
- December 28, 2010 - in lieu of Veteran's Day
- December 29, 2010 - in lieu of employee's birthday
- December 30, 2010 - charged to annual leave
- December 31, 2010 - New Year's Day
- January 17, 2011 - Dr. Martin Luther King's Birthday
- March 25, 2011 - Friday of Spring break, in lieu of George Washington's/Daisy Gatson Bates' Day
- May 30, 2011 - Memorial Day

For more information see <http://vcfa.uark.edu/Documents/4092.pdf>

## Lois Geren Retirement Party

All are invited to a fish fry celebration to honor the retirement of Research Assistant Professor **Lois Geren**, Thursday, June 24 at 5:30 p.m. at The Gardens pavilion on the corner of Leroy Pond Ave. and Razorback Road.

RSVP to [cheminfo@uark.edu](mailto:cheminfo@uark.edu) or 5-5198 by June 18.

On the Buffalo - The annual department float trip occurred Tuesday, May 25 after being rained-out the week before. At right: floaters take a break from the canoe to hike to Hemmed-in Hollow, mid America's tallest waterfall at 204 feet. Photo by Frank Millett.

## 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

*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.

**Exceptions to summer hours**

July 5.....CLOSED

