The department is again co-hosting the Arkansas INBRE Research Conference, Nov. 7-8 in downtown Fayetteville.

The conference will feature a poster session, banquet, guest speakers, vendor show, faculty mixer and workshops.

New this year, undergraduates in biological sciences, physics and chemistry and biochemistry, are invited to submit abstracts for student oral presentations. Six in each of the three disciplines will be selected from submitted abstracts to present Friday afternoon.

The event begins Friday afternoon with faculty talks at the University of Arkansas Global Campus Conference Center (CTED 204) at 1 p.m.

Krishan K. Arora, Ph.D., Health Scientist Administrator, Division of Research Infrastructure, National Center for Research Resources, National Institutes of Health, Department of Health and Human Services will be the first speaker. He will present “NIH IDeA Program and Mentoring in Building and Enhancing Research Capacity.”

Matt McIntosh, will present “The Role of Organic Synthesis in Drug Discovery.”

Don White, Jr., James M. White Professor of Wildlife Ecology, School of Forest Resources, University of Arkansas at Monticello, and Stephen R. Addison, professor and chair, department of physics and astronomy, University of Central Arkansas, will also present.

The featured speaker is University Distinguished Professor David G. I. Kingston, department of chemistry, Virginia Polytechnic Institute and State University, who will present “Chemistry, Drug Discovery, and Conservation: What is a Chemist Doing in the Rain Forest?” Kingston will present at the banquet Friday night at the Fayetteville Town Center.

A combined poster session, breakfast, workshops and student award presentations will be Saturday.

The poster session is open to faculty, researchers, graduate students and undergraduate students. Those with INBRE or NIH funding are encouraged to participate. No affiliation with INBRE is required and there are no registration fees. The registration deadline is Friday, Oct. 10.

Jack Lay will give a mass spectrometry workshop. Other workshop topics are Arkansas INBRE funding, finding scholarly resources and intellectual property.

This conference is sponsored by the Arkansas INBRE and hosted by the departments of biological sciences, physics, and chemistry and biochemistry, in the Fulbright College of Arts and Sciences, University of Arkansas.

To register or to view the schedule see http://chemistry.uark.edu/1733.htm.

For more information contact cheminfo@uark.edu.
Faculty News

On the Go

Suresh Kumar gave a lecture at the University of Missouri, Columbia Oct. 3.

Matt McIntosh visited Arkansas Tech in September for recruiting.

Research associate K.M. Kathir will present a poster “Understanding the Mechanism of the Anti-angiogenic Activity of Suramin,” at the GRASP meeting at Kansas State University Oct. 3. He is in the Kumar lab.

Joshua Sakon presented “A Fusion Protein Of Parathyroid Hormone and a Collagen Binding Domain Shows Superior Efficacy and Longer Duration of Action Compared to Pth(1-34) as an Anabolic Bone Agent in Normal Female Mice,” at the 30th annual meeting of the American Society in Bone and Mineral Research, in Montreal Sept. 13.

Julie Stenken will attend an NIH study session in Washington, D.C. Oct. 7.

Ryan Tian made a recruiting visit to Huntsville High School in September.

64th Southwest Regional ACS Meeting, Oct. 1-4, Little Rock

Paul Adams and Bill Durham attended.

Ingrid Fritsch and organized the session “Bioanalytical Chemistry” and the recruiting table.

Bob Gawley presented “Transatlantic Dual Bachelor of Science Degree in Chemistry.”

Jack Lay chaired the session on “Small Molecule Mass Spectrometry” and presented “Mass Spectrometry Approaches for Extracting Protein Folding Energies.”

Matt McIntosh chaired the Cope Scholar Symposium.

Julie Stenken presented “Challenges and Opportunities in Detecting in Vivo Peptide and Protein Chemical Communication.”

Charlie Wilkins presented “Phospholipid Analysis in Genetically Modified Yeast by Fourier Transform Mass Spectrometry.”


Post docs and Researchers

Raja Dakshinamurthy and undergraduate Drew Avery, Kumar lab, presented “Effect of Osmolytes on Protein Stability and Folding.”

Mass Spec researcher Jennifer Gidden presented “Differentiation of Bacteria Using Lipid Profiles from MALDI-MS.”

Huimin Liu, Adams lab, presented a poster “Expression of and Preliminary Biophysical Characterization of a Minimal Binding Domain Peptide of TSC2 That Binds to the Small GTPase Rheb.”

Graduate Students

Coy Batoy, Wilkins lab, presented a poster “Analysis of Phospholipid Profiles of Different Yeast Mutants that have Altered Transcription Factors by MALDI FTMS.”

David Clay, McIntosh lab, presented a poster “Toward the Total Synthesis of Antascomicin B via an Ireland Claisen (ICR) and Allylic Diazene (ADR) Rearrangement Sequence.”

Dan Eddings, Gawley lab, presented a poster “Towards the Synthesis of the C22-C34 Fragment of Antascomicin B”

Ryan Farris, Gawley lab, presented “Optical Sensor for the Paralytic Shellfish Toxins.”

Penny Lewis, Gawley lab, presented “Toward Electrochemical Detection of Saxitoxin: Signal Amplification by Redox Cycling at a Self-Contained Microelectrode Array in a Microchannel.”

Tamilselvi Marutharaj, Durham lab, presented a poster “Diinuclear Ruthenium (II) Diphen Complex of HAT.”

Chris Mazzanti, Koepe lab, presented a poster “Experimental Solvation of KCl and NaCl in N-methylecetamide.”

Sasa Miladinovic, Wilkins lab, presented a poster “LDI-FTMS Analysis of Polyacetylene Thin Films Deposited on Silicon by Plasma Polymerization.”

Maha Shrestha, McIntosh lab, presented a poster “New Applications of the Allylic Diazene Rearrangement”

Vitaly Vostrikov, Koepe lab, presented “Solid-State NMR Approaches to Transmembrane Peptide Tilt.”

Melissa Weston, Fritsch lab, presented a poster “Manipulating Fluid Flow on a Chip Through Redox Magnetohydrodynamic Induced Convection.”

Undergraduates


Antony Herbaugh, Stenken lab, presented a poster “An In Vitro Stopped Flow Method of Microdialysis Sampling for Cytokines.”

Christena Hooten, Fritsch lab, presented a poster “Investigations of an Immunoassay-Compatible Species for Pumping with Magnetohydrodynamic Force.”

Miles Ritter, Stenken lab, presented a poster “Microdialysis Sampling for Localized Delivery of Immune Modulators.”

Sean Stevens, Gawley lab, presented a poster “Detection and Toxin Profiling of Paralytic Shellfish Toxins Through the use of High Performance Liquid Chromatography.”

Former REU student Beth Hilburn presented a poster “Exploring New Synthetic Routes for Nano-C60 Colloidal Suspensions.”

Arkansas Biosciences Institute Fall Research Symposium, Oct. 7, Little Rock

Research associate, Raja Dakshinamurthy, Kumar lab, will present “Is Heparin Binding a Prerequisite for FGF Signaling?”

Graduate student Estelle Huff, Pulay lab, will make a poster presentation “Predicted NMR Shift Changes in the Aromatic Ring Due to Cation-π Interactions.” She will present the same poster at the Conference on Current Trends in Computational Chemistry in Jackson, Miss, Oct. 31 to Nov. 1.

October Safety Tip

The area surrounding a balance is generally a housekeeping problem that needs everyone’s attention.
Student News

Fulbright College Scholarship Luncheon
Several students were recognized at the annual tribute to outstanding students and benefactors of the Fulbright College Sept. 19 in the Alltel Ballroom.

Graduate student Nick Gleason received the Barrett S. and Peggy S. Duff Doctoral Fellowship awarded to a most distinguished and talented graduate student pursuing a career in graduate research. Gleason is in the Koeppe lab.

The following undergraduates were recognized.

Graduate student Nick Gleason

Augustus C. and Margaret B. Jennings Endowed Scholarship - Rhys Moore and Olena Pickett.

Dr. Bill and Sandra Tranam Award, awards a student of academic promise in the arts and sciences - Iryna Polyakovga.

Fulbright College of Arts and Sciences Scholarship, awarded for academic achievement - Kellie Ong.

Metrailer Support Scholarship, awarded students of academic promise majoring in science - Christine Nicholson and Lindsey Brown.


Fall 2007 scholarship recipients and spring awardees were also recognized.

Undergraduates to Present
Undergraduates Laura Bradney and Rachel Thomas will present at the Arkansas Association of Public Universities/Arkansas Science and Technology Authority annual conference in Little Rock.

Bradney will present “Investigations of Antimicrobial and Lipid Perturbing Properties of Modified Lactoferrin Peptides.”

Thomas will present “Influence of Proline upon the Folding of a Designed Transmembrane Alpha-Helical Peptide.”

Both are students in the Koeppe lab.

Rutherford Passes Cumes
Graduate student Lindsay Rutherford passed the appropriate number of cumes with emphasis in biochemistry and is now admitted to candidacy. She is in the Kumar lab.

Family News

Quan Yuan married Yan Yang in Beijing, China, Aug. 23. Yang is from Beijing and holds a bachelor’s degree in mechanical engineering. A reception took place at the home of Dan and Marilyn Davis in September. Yuan is a graduate student in the Millett lab.

Instructor and alumnus Mya Norman, B.S. ’99, M.S. ’01, gave birth to a boy, August Taylor Norman, Saturday, Sept. 28. Norman will be on maternity leave until spring 2009. The department hosted a shower for her in September.

Graduate students Amy Webb-Durchman and Jeremy Durchman welcomed the birth of their son Lennon in August.

Top left: Quan Yuan and his bride Yan Yang at their ceremony.
Top right: Mya Norman, pre-baby at a shower in September.
Bottom: Lennon Durchman

Web CT is now Blackboard
Log-on to the department site on Blackboard @ www.courses.uark.edu to find forms, a calendar of events, speaker information, job opportunities and more. To make suggestions or to gain access, contact cheminfo@uark.edu.
Calendar of Events

October
01-04................. 64th Southwest Regional ACS Meeting, Little Rock
06................. Department seminar - Oliver Reiser, University of Regensburg
08................. Early progress reports for 1000 and 2000 classes e-mailed to students
09................. Department picnic - The Gardens
10.................. CUME
13.................. Department seminar - Larry Suva, UAMS
20................. Department seminar - Robert Powers, University of Nebraska
24.................. CUME
27.................. Department seminar - Babak Nikoobakht, National Institute of Standards and Technology
31.................. Last date to drop a full semester course with the mark of “W”

November
03-14................. Priority registration for spring 2009 for currently enrolled students
03.................. Department seminar Ellen Fisher, Colorado State University
07-08................. INBRE conference
10.................. Department seminar - open date
17.................. Department seminar - Robert Gensure, Ochsner Health Systems
21.................. CUME
24.................. Department seminar - Robert Ben, University of Ottawa
26.................. Fall break - no classes
27.................. Thanksgiving - university CLOSED
28.................. University CLOSED

December
01.................. Department seminar - Christy Landes, University of Houston
08.................. Fall seminar series concludes - Olafs Daugulis, University of Houston
09.................. Last day of fall classes
09.................. Last day to officially withdraw from all courses
10.................. Department holiday potluck
10.................. Dead Day - no classes
10.................. Final copies of master’s thesis and doctoral dissertations must be submitted to the Graduate School for students graduating in Dec. 2008
11-17................. Final exams
24-31................. University CLOSED

Department Picnic
Thursday, October 9, 2008
At the Gardens off Razorback Rd. southwest of Bud Walton Arena
Starts @ 6 p.m., dinner @ 6:30 p.m.

POTLUCK – bring your favorite dish or dessert. Sign-up sheet at the main desk, or
e-mail cheminfo@uark.edu or call 575-4601. Hamburgers, veggie burgers, hotdogs,
buns, condiments, potato salad, coleslaw, beans and beverages will be provided.
Families welcome.

October Birthdays
01..............Rohana Liyanage
03...........Nicholas Gleason
09...........Leslie Johnson
11...........Christopher Mazzanti
13...........Gwen Mattice
16...........Andy Williams
20...........Zheng Li
21...........Tomasz Janowski

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
Fall hours
Monday - Thursday .... 8 a.m. to 9 p.m.
Friday ................. 8 a.m. to 6 p.m.
Saturday .............. CLOSED
Sunday .................. 2 p.m. to 6 p.m.

Exceptions to fall hours
Nov. 25-26 ...............8 a.m. to 5 p.m.
Nov. 27 ..................CLOSED
Nov. 28 ..................CLOSED
Nov. 30 .................CLOSED
Dec. 17-19 ..............8 a.m. to 5 p.m.
Dec. 21 .................CLOSED
Dec. 22-23 ..............8 a.m. to 5 p.m.
Dec. 24-Jan. 1 .........CLOSED
http://libinfo.uark.edu/chemistry/

Fall CUME Dates
Cumulative exams for graduate students will take place on the following Fridays
from 5 p.m. to 6 p.m. in CHEM 144

United Way
Please return your United Way pledge cards to Heather Jorgensen by Oct. 15.
Regardless of making a pledge. Last year
the department received a sliver award for its combined participation.