Dear Friends and Colleagues,

It has been a challenging year for LSU, and many challenges lie ahead. We are currently in the process of implementing a budget cut of $916,977 for FY 2010-2011. The College will cut vacant faculty lines ($164,254), residual GBI funds ($22,325), operating budget ($100,000) and various positions ($190,737) as part of this cut. The balance of $439,661 will come from departmental budgets, and individual departments will sustain budget reductions of 1% or less. Still, these cuts are quite painful. They come after a series of previous reductions and, as I am sure you are aware, LSU is being asked to make plans for a potential 23% budget cut in FY 2011-2012. Throughout this process we must all work together to sustain our core strengths in research and teaching, but there is no escaping the fact that continued budget cuts are taking their toll.

While there is no joy in preparing for and implementing budget cuts, we have much to celebrate as our outstanding faculty, staff and students continue to excel on all fronts. For example, as you will see within, our faculty have been very successful in attracting research funding. Indeed, I'm pleased to report that the College of Science generated $40,421,83 in extramural funding during FY 2009-2010, which shatters the previous record of $34.2M. Physics & Astronomy led the way with $10.10M in funding, followed closely by Chemistry with $9.96M, Biological Sciences with $9.25M, and Mathematics with $7.19M. Computer Science established an all-time high with $2.45M and Geology & Geophysics’ $1.13M was the highest in 3 years. We also expect to announce in the very near future two major awards, 1 from NSF and one from NIH, which will have broad impact in our college.

Those of you who (used to) park in the Choppin/Life Sciences lot are aware that construction of the chemistry annex is underway. This 5-story building will be dedicated to research labs in Chemistry (floors 2-4); it will also house the Materials Characterization Center on the 1st floor, which will consolidate microscopy resources across campus. The 5th floor will be a microfabrication facility, which will include level 100 and 1000 clean rooms. The building is scheduled for completion in early 2012. An official ground breaking ceremony is scheduled for August 31st at 10 a.m. I hope you can join us.

It has been quite some time since the College has updated its strategic plan. With the recent additions of Mathematics and the Museum of Natural Science, and given the financial challenges that we are facing, it is time for us to engage with development of a new strategic plan. I have asked department chairs to update their strategic plans, and will be seeking your input as we develop a plan in the fall of 2010.

As a means of better serving our students and also potentially providing a significant source of revenue, we are aggressively pursuing the strategic implementation of on-line summer courses. The University of Kentucky has been quite successful with summer on-line courses and I have been in communication with Dean Mark Kornbluh at UK. He has been quite helpful and has offered to send two members of his implementation team to LSU this fall. You’ll be hearing more about this in the coming weeks, but our plan is to offer our first courses in the summer of 2011.

Enrollment numbers are up substantially relative to last year, and a large fraction of that increase is in our college. I’m keenly aware that increasing student demand in the face of shrinking resources presents significant challenges and I appreciate the extraordinary efforts that our faculty and staff have made in accommodating these extra students.

Best wishes to all as we wind up the summer and enter into another academic year.

Regards, Kevin C.
Committee for Barb Dutrow, and PhD studies. Graduate fellowship to complete her MS Sciences) was awarded a 3-year NSF (Lynn Lab/Biological Julie Doucet of Science and Technology (India). The group has received funding to be held August 9-14 at Goa University. “Workshop on Geometric Group Theory,” Venkataraman (India), entitled the organizing a conference with Martin Bridson (UK), Indira Chatterji (France), and Geetha Venkataraman (India), entitled the “Workshop on Geometric Group Theory,” to be held August 9-14 at Goa University in India. The group has received funding from NSF, the Agence national de la recherche and the Federation Denis Poisson (France), and the National Board for Higher Mathematics and Department of Science and Technology (India). Palavi Dani (Mathematics) is co-organizing a conference with Martin Bridson (UK), Indira Chatterji (France), A. J. Jayanthan, B. Sury, and Geetha Venkataraman (India), entitled the “Workshop on Geometric Group Theory,” to be held August 9-14 at Goa University in India. The group has received funding from NSF, the Agence national de la recherche and the Federation Denis Poisson (France), and the National Board for Higher Mathematics and Department of Science and Technology (India).

Julie Doucet (Lynn Lab/Biological Sciences) was awarded a 3-year NSF graduate fellowship to complete her MS and PhD studies.

Barb Dutrow (Geology & Geophysics) was named chair of the Executive Committee for Elements, the news publication of the Mineralogical Society of America.

Brooks Ellwood (Geology & Geophysics) received the Science Medal from the Vietnam Academy of Sciences & Technology.

Jayne Garno (Chemistry) was selected as a 2010 Dreyfus Teacher-Scholar Award.

Gabriela Gonzalez (Physics & Astronomy) has been named a Fellow of the International Society on General Relativity and Gravitation for “her outstanding contributions to the gravitational wave science and leadership in the LIGO Scientific Collaboration.”

Kyle Harms (Biological Sciences) served on a Division of Environmental Sciences proposal-review panel for NSF.

Darrell Henry (Geology & Geophysics) and co-authors Vincent van Hinsberg (McGill University) and Horst Marschall (University of Bristol) will be featured in a thematic issue of The Canadian Mineralogist (2010) for research that indicates the use of tourmaline as a quantitative indicator of the chemical and physical properties of its host environment and that these advances may make tourmaline the prime mineral for this purpose in the future.

Joomyeong Kim (Biological Sciences) was selected for a three-year term of service on LSU’s Institutional Animal Care & Use Committee (IACUC).

Gary King (Biological Sciences) was the featured Glaser Distinguished Biology Speaker for a week of presentations at Florida International University.

Associate Dean Richard Kurtz (Physics & Astronomy) was named a Fellow of the American Vacuum Society (AVS) for his experimental and theoretical work in interpreting intensities in photoelectron angular distributions.

John Lynn (Biological Sciences) was elected to a 2-year term as National President of Alpha Epsilon Delta

Saundra McGuire (Chemistry) recently became one of only seven individuals in the United States to achieve the Level Four Lifetime Learning Center Leadership Certification through the National College Learning Center Association, or NCLCA.

KUDOS

Gabrielle Allen (Physics & Astronomy/CCT) will be one of three keynote speakers at the TeraGrid 2010 conference in Pittsburgh, Pennsylvania, in August with her talk, “Importance of Cyberinfrastructure for Numerical Relativity.”

Susanne Brenner (Mathematics/CCT) was appointed to the Michael F. and Roberta Nesbit McDonald Professorship in Basic Sciences. In addition, Susanne was named a Fellow of the Society for Industrial and Applied Mathematics (SIAM).

Phillip Bart (Geology & Geophysics) was selected to join the U.S. delegation to the Scientific Committee on Antarctic Research.

Julia Chan (Chemistry) was appointed to the Les & Dot Broussard Alumni Association Departmental Professorship in Basic Sciences.

Alumni Professor Emeritus Bill Daly (Chemistry) and Saundra McGuire (Chemistry/CAS) were elected as 2010 Fellows of the American Chemical Society.

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Supratik Mukhopadhyay (Computer Science) was named a Fellow for the 2010 Office of Naval Research (ONR) Summer Faculty Research Program (SFRP).

Supratik Mukhopadhyay and S. S. Iyengar (Computer Science) are featured in Communications of the ACM for complex event processing.

Jorge Pullin (Physics & Astronomy/CCT) will participate in a Joint Commission Meeting on Science and Technology Cooperation between the United States and Argentina in September.

Edward Seidel (Physics & Astronomy) was appointed as Assistant Director for Mathematical and Physical Sciences at NSF.

Professor Emeritus Barun Sen Gupta (Geology & Geophysics) was awarded the R. C. Moore Medal from the Society for Sedimentary Geology (SEPM).

Thomas Sterling (Computer Science/CCT) gave a plenary Keynote address on the state of the high-performance computing at the International Supercomputing Conference in Hamburg, Germany.

Graça Vicente (Chemistry) was selected to serve as a permanent member of the NIH Synthetic and Biological Chemistry A Study Section (SBCA) for 2010 through 2014.

The Department of Computer Science and the LSU Ag Center co-sponsored a robotics workshop called INSPIRE (Innovative Scholastic Program in Robotics Education). The goal of the program is to inspire students to pursue careers in engineering, science, technology, and math through participation in healthy, hands-on learning activities that foster science and engineering talent, cooperation, creativity and innovation through building robots.
NEW GRANT FUNDING NOTICES

BIOLOGICAL SCIENCES


Brent Christner (Biological Sciences) and Co-PI Noelle Bryan, “LaSPACE Fellowship – Noelle Bryan,” NASA, 2010-2011, $18,750.

James Cronin with Co-PI Ganesh Bhattarai, “Role of storm activities in the spread of an invasive plant, Phragmites australis, in the coastal marshes of Louisiana,” LA Wildlife and Fisheries, 2010-2011, $1,000.

James Cronin with John Reeve, MingQing Xia and Dashun Xu (Southern Illinois University), “Collaborative Research: Vulnerable host stages, development time and host-parasitoid stability – the first experimental test,” NSF, 2010-2013, $440,000.

Fernando Galvez, “Phase 1: Assessment of the Toxicity and Bioavailability of Receiving Waters Surrounding Phosphoric Acid Facilities in Southern Louisiana,” DOJ, 2010-2015, $73,519.

Joomyeong Kim, “Imprinting studies of a paternally expressed gene Usp29,” NIH (NIEHS), 2010-2014, $1,200,000.

Joomyeong Kim, “Retrotransposon as a major source to epigenetic variations in the human genome,” NIH (NIEHS), 2010-2013, $436,000.

Gary King, with Crystal Johnson and Ed Laws (Environmental Sciences), “RAPID on Gulf Oil Spill: Phytoplankton and environmental stressors as determinants of Vibrio ecology,” NSF, 2010-2011, $150,000.


Ryoichi Teruyama, “Epithelial Sodium Channels in the Supraoptic Vasopressin and Oxytocin Neurons,” NIH, 2010-2011, $299,528.


CHEMISTRY

Khalid Alshibli (Civil Envr. Engr.) with PI’s Leslie Butler (Chemistry) and Jeffery Nunn (Geology) and Karston Wilson (Civil Envr. Engr.), “Workshop on Applications of Neutron and X-Ray Tomography for Geomaterials,” NSF, 2009-2010, $24,660.


Randy Duran, “Undergraduate Science Education Program,” Howard Hughes Medical Institute, 2010-2013, $1,400,000.


COMPUTER SCIENCE


continued

GEOLOGY & GEOPHYSICS


PROGRAM NEWS

CxC

Staff members in the College of Science CxC studio were recognized at the annual LSU Campus Life Leadership Awards ceremony this spring:

- Undergraduate Leadership Legacy Award: Elise Roche for HOPE (Helping Others Practice Empowerment)
- Graduate Student Leader of the Year: Gentry Hanks for Geography & Anthropology Student Association
- Faculty Advisor of the Year: Colleen H. Fava for HOPE

SURF

The Summer Undergraduate Research Forum poster session was held July 29th in the Union Cotillion Ballroom. More than 130 students presented posters highlighting their summer research projects. Congratulations to all the students, faculty, and program staff for another successful series of summer research programs (see photo, page 6).

MATHEMATICS


Len Richardson, Larry Smolinsky, Jacek Cygan, “Mathematics Doctorates for Innovative University Teaching and Research,” DOE, 2010-2013, $525,000.

PHYSICS & ASTRONOMY


Mette Gaarde, “Macroscopic aspects of ultrafast strong-field atomic physics,” NSF 2010-2013, $270,000.


Jorge Pullin, “The Dynamics of Quantum Gravity,” NSF, 2010-2011, $360,000.


John Wefel and Brent Christner (Biological Sciences), “MARSLIFE: Modes of Adaptation, Resistance and Survival for Life Inhabiting a Freeze-dried-radiation-bathed Environment,” NASA and BOR, 2010-2013, $1,410,000.

MUSEUM OF NATURAL SCIENCE


COLLEGE OF SCIENCE


Be sure to send us your grants for listing here here. Information should include PI(s), project title, funding agency, term years, and amount of award.
DEVELOPMENT/FUNDRAISING HIGHLIGHTS

Dr. Mary Lou Applewight: $5,000 to the Science Development Fund
Mr. Gregg DeMar: $1,000 to the Science Development Fund
Dr. Linda Goodrum: $1,000 to the Science Development Fund
Dr. Ruth Harris: $60,000 to the Dr. Richard Bruch Distinguished Professorship
Dr. George C. Kent, Jr.: $1,000 to the Kent Endowed Professorship Fund
Dr. Amanda Kogos: $1,000 to the Science Development Fund
Mr. Ronald Neal and Dr. Mary Neal: $1,000 and $1,000 to the Science Development Fund
Mr. Ed Picou: $1,000 to the Science Development Fund
Mr. Joseph E. Reid: $1,000 to the Geology Summer Field Camp Fund
Mr. Curtis Sorrells: $1,000 to the Student Bird-A-Thon Fund
Dr. & Mrs. William Stickle: $2,500 to the Science Development Fund
Dr. Edmund G. Wermund: $3,000 to the Dr. A. E. Sandy Sandberg Scholarship Fund
American Association of Petroleum Geologists: $1,000 to the Geology Student field Trip Support Fund
American Birding Association: $8,000 to the Bird Resources Fund
Brookhill Foundation: $70,000 to the High Performing Mathematics Program Support Fund
Devon Energy: $20,000 to the Geoscience Scholarship Fund
Hubert Charitable Foundation: $20,000 to the Vertebrate Paleontology Research Fund
Marathon Oil Corporation: $60,000 to the ADG Support Fund, Marathon Oil Company Geology Scholarship Fund, Marathon Oil Company Geophysics Scholarship Fund, Geology Development Fund, and the Marathon Petroleum Company Chemistry Scholarship Fund
Mary Bird Perkins Cancer Center: $10,000 to the Medical Physics Development Fund
Peltier Foundation: $10,000 to the Science Development Fund
Proctor & Gamble: $10,000 to the Department of Chemistry
Pearson Education Foundation: $10,000 to the Biology Intensive Orientation for Students Support Fund
Shell Oil Company: $35,000 to the ADG Support Fund and Shell Undergraduate Recruitment and Geoscience Education (SURGE)

New Dean Circle Members
The Dean’s Circle is a circle of friends and donors who contribute a minimum of $1,000 in unrestricted funds annually to the Science Development Fund. Welcome to our newest members!

Mr. Peter D. Burland
Dr. Robert L. Herman
Dr. & Mrs. Sean McGlynn
Dr. & Mrs. Estes C. Thomas

ALUMNI NEWS

Eugene Billiot (PhD, Chemistry, 1998) is the chemistry program coordinator for Physical and Environmental Sciences at Texas A&M University-Corpus Christi.

David Bwambok (PhD, Chemistry, 2009) has recently been offered a Post Doctoral Fellowship for studies with Professor George M. Whitesides in the Department of Chemistry and Chemical Biology at Harvard University.

V. Sridhar (MS, Systems Science, 1990) has become the interim director of the School of Computing at the University of Oklahoma. He works on sensor networks, broadband networks and cloud computing.

Hall of Distinction
The College of Science inducted six new members into its Hall of Distinction in April. The gallery of members is available here.

- Mr. Byrd Ball
- Dr. Ellinor Behre
- Mr. Clarence P. Cazalot, Jr.
- Dr. James Coleman
- Dr. Sean McGlynn
- Dr. Dale Poulter

STUDENTS IN THE NEWS

Katrina Battle, (Chemistry) received a National Science Foundation Graduate Research Fellowship.

Shawn Doyle, a graduate student in biological sciences, returned to his roots at Sulphur High School from where he graduated in 2004 to teach AP Biology students about real world science exploration in Antarctica.

Mustafa Hajij, a graduate student in mathematics, was named the 2010 Dean’s scholarship award winner at the LSU digital media festival for his topology video “Turaev surfaces.”

Samuel Njoroge, a graduate student in chemistry, won the Advanced Design Consulting USA, Inc. (Lansing, NY) and the Institute of Physics Award (ACS/IoP Award). He received the Microfab Award for his excellent presentation at the LSU CAMD user meeting in April.

Anna Normand (Chemistry) received the Udall Scholarship. She is also a member of the LSU Honors College, the La-STEM scholars program, and carries the Patrick F. Taylor Chemistry Scholarship.

Shan’Terika Remo (Chemistry) and Nathalie Malcolm (Biochemistry) were selected as HHMI EXROP Scholars. The Exceptional Research Opportunities Program places students at participating institutions around the nation.

Congratulations to Jordan Boudreaux, Melanie Carroll, Logan LeBlanc, and Michelle Limbaugh. These incoming freshmen were awarded Science Honors Scholarships. The Science Honors Scholars (SHS) Program is privately funded through the LSU Foundation by alumni and friends of the College and is a partnership between the College of Science and the LSU Honors College.
COMINGS & GOINGS

Dr. William Metcalf (Physics & Astronomy) retired July after 31 years of service to LSU.

Dr. John Fleeger (Biological Sciences) retired in May after more than 32 years of service to LSU.

CALENDAR OF EVENTS

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>August 6</td>
<td>Summer Commencement</td>
<td>9:00 a.m.</td>
<td>PMAC</td>
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<tr>
<td>August 13</td>
<td>Admin/Prof Staff Evaluations due to HRM</td>
<td>3:00 p.m.</td>
<td>Evangeline Hall</td>
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<td>August 19</td>
<td>SRC Reception</td>
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<td>August 23</td>
<td>Fall Classes Begin</td>
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<td>August 24</td>
<td>Retired Faculty Luncheon</td>
<td>11:30 a.m.</td>
<td>Faculty Club</td>
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<td>September 6</td>
<td>Labor Day Holiday (University Offices Closed)</td>
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<td>September 13</td>
<td>Committee Appointments due to Martha in Dean's Office</td>
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<tr>
<td>October 19</td>
<td>Midterm Grades Due</td>
<td>9:00 a.m.</td>
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<td>October 20</td>
<td>P&amp;T Sample Packets due in Dean’s Office for review</td>
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<td>October 21-22</td>
<td>Fall Holiday</td>
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<td>October 22</td>
<td>Sabbatical Packets due in Dean’s Office (original + 7 copies)</td>
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<td>October 29</td>
<td>Dean’s Circle Executive Committee Meeting</td>
<td>1:30 p.m.</td>
<td>Lod Cook</td>
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<td>October 29</td>
<td>Dean’s Circle Dinner in the Atrium</td>
<td>6:00 p.m.</td>
<td>Howe-Russell</td>
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<tr>
<td>November 1</td>
<td>P&amp;T Packets due in Dean’s Office (original + 21 copies)</td>
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<tr>
<td>November 13</td>
<td>LSU Day/Tiger Day (Homecoming)</td>
<td>9:00 a.m.-1:00 p.m.</td>
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Have news to share? Received a new grant? Send us your news.
E-mail to science@lsu.edu.

More than 130 students from CCT REU, Noyce/Geaux Teach, HHMI, HHMI EXROP, LBRN, LS-LAMP REU, OSI REU, and P&A REU presented their research during the 2010 Summer Undergraduate Research Forum in the LSU Cotillion Ballroom.