

Fall  
2012

## NEW WAVE NEWS

[Migratory Birds May Reveal Further Impact of Oil Spill »](#)[Introduction to Tulane »](#)[Read Other News »](#)

## ACCOLADES

Cell and Molecular Biology Professor Frank Jones was awarded \$256,631 from the NIH to decipher and therapeutically target a novel and unexplored pathway in breast cancer involving cooperation between the ErbB4 cell surface receptor and the nuclear estrogen receptor.

Chemistry Professor Bruce Gibb was awarded \$1,131,760 from the NIH to develop new models of the Hofmeister Effect using a unique class of molecular hosts.

Chemistry Professor Russell Schmehl was awarded \$149,752 (for '12-'13) from the DoE to continue efforts to devise visible light absorbing transition metal complexes that couple with homogeneous catalysts to reduce water to hydrogen. This marks the group's 20th year of continuous support from DOE's Basic Energy Science division.

Earth and Environmental Sciences Assistant Professor Nicole Gasparini was awarded \$245,572 from the NSF to work

## Message from the Dean

*Nicholas J. Altiero, Dean*

In the last issue of this Newsletter, I reported that the School of Science and Engineering was anticipating a record number of incoming students in Fall 2012 and that it appeared that fiscal year 2011-12 would end with record numbers for the School in research funding and publication/patent activity. I am now pleased to report the results. This Fall, Tulane University welcomed 1651 first time freshmen. Of that number, 476 have declared majors in science or engineering disciplines, more than 34% of the incoming undergraduate students who have declared majors to date. At the graduate level this fall, the number of doctoral students in SSE has increased by 6% , to 320, and the number of masters students by 12%, to 120. There are now more than 2150 students enrolled in SSE academic programs at the undergraduate and graduate levels. Fiscal year 2011-12, which ended on June 30, 2012, brought us more than \$23 million in funded research, a nearly 70% increase over the previous year, and a whopping 21 faculty and student invention disclosures, more than the prior three fiscal years combined! And alumni and friends have responded to our vision for the School with close to \$6.2 million in gifts this past year, a 44% increase over the prior fiscal year.



[Read Dean's Message »](#)



## Scott Heape and Bob Marshall: A Legacy of Teamwork

*Article by Robert Morris*

In the summer of 1968, freshmen recruits Bob Marshall from New Orleans and Scott Heape of Dallas walked onto the football practice field at Tulane University, becoming close friends, as they both learned to balance the rigors of football practice with a demanding geology curriculum, ultimately winning

Tulane a Liberty Bowl championship in 1970 and then going on to successful careers in the energy industry.

[Read Full Story »](#)

## Researchers Test Treatment for Late-stage Cancer

*Article by Belinda Lacoste*

At Tulane University this summer, researchers led by Damir Khismatullin begin the second

with an interdisciplinary team of scientists and software engineers who are designing and building a modular, customizable, landscape evolution model.

Physics and Engineering Physics Professor Fred Wietfeldt was awarded \$384,000 from the NSF to make high precision measurements of neutron decay in order to probe fundamental interactions in subatomic physics.

Ecology and Evolutionary Biology Assistant Professor Jordan Karubian has been selected as the recipient of the 2012 Ernest A. Lynton Award for the Scholarship of Engagement for Early Career Faculty.

Carrie Manore, a NIH/NSF supported postdoc, working with Professor Mac Hyman in the Math Dept. and in the CCS, has been awarded the Segal Prize for the best student paper published in the Bulletin of Mathematical Biology in the previous two years.

## CONTACT US

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✉ [candy@tulane.edu](mailto:candy@tulane.edu)

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phase of studies geared at developing a minimally invasive technique for treatment of large primary tumors and metastases to the liver and kidneys.

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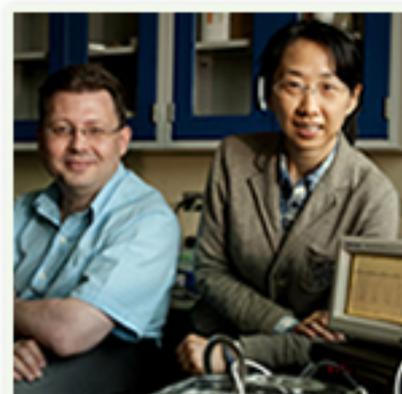


Photo by Paula Burch-Celentano



Photo by Kathryn Hobgood Ray

## Pilot Plant Designed By Students, for Students

*Article by Kathryn Hobgood Ray*

A pilot chemical plant on the campus of Nunez Community College in St. Bernard Parish, La., is helping students from both Nunez and Tulane University develop their skills and gain real-world experience. The pilot plant, formally called the Nunez Community College Distillation Tower, is a smaller version of one that would be found at a

corporate chemical plant like Shell or Domino Sugar.

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## Kat Engleman: Developing New Vision

*Article by Robert Morris*

As the first-ever development officer for the newly-formed School of Science and Engineering, Kat Engleman faced the daunting task of building an alumni community out of a disparate group of graduates, some of whom were upset about the changes at their alma mater and others who were unfamiliar with what an integrated school encompassing all of Tulane's science and engineering curricula was going to involve.



[Read Full Story »](#)

## Upcoming Events

*School of Science and Engineering Highlights*

**“Welcome Home” Reception for Alumni and Friends of Tulane attending the 2012 Society for Neuroscience Conference**

Hosted by The Tulane Neuroscience Program, Tulane Medical Alumni Association and Tulane School of

**School of Science and Engineering Distinguished Leadership Circle Reception**

Thursday, November 1, 2012  
6:30 PM - 8:30 PM  
123 Walnut – Rooftop  
*Invitation Only*

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Science and Engineering

Sunday, October 14, 2012

6:30 PM – 8:30 PM

RHINO (Right Here in New Orleans)

Craft Gallery – Canal Place – 2nd

Floor

*Invitation Only*

### **School of Science and Engineering Undergraduate Student Career Networking Session**

Thursday, November 1, 2012

3 PM - 4:30 PM

Lavin-Bernick Center for University

Life – Room 203 – Stibbs

*All science and engineering  
undergraduate students are invited to  
attend and meet with SSE Board  
members*

[View All Events »](#)

### **School of Science and Engineering 2012 Homecoming Celebration Open House | Research Lab Tours | Flower Hall Showcase**

Friday, November 2, 2012

2 PM - 4 PM

Boggs Center for Energy &  
Biotechnology – First Floor Lobby

*Everyone is Invited*

### **School of Science and Engineering 2012 Homecoming Tailgating Tent**

Saturday, November 3, 2012

11 AM - Game Kickoff

Mercedes-Benz Superdome –  
Champions Square

*Everyone is Invited*

[See a weekly schedule of Science  
and Engineering Seminars open to  
the public »](#)

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