

Winter  
2013

## NEW WAVE NEWS

[Less of a Class, More of an Experience »](#)[Banging an Important Development Milestone, Tulane Study Says »](#)[Government Shutdown Puts Freeze on Antarctic Research »](#)[Doctoral Student Named a University Innovation Fellow »](#)[Read Other News »](#)

## ACCOLADES

Chemical and Biomolecular Engineering Professor and Department Chair Anne Robinson, was awarded \$250,000 from the NSF to provide design paradigms and computational tools that enable the rational design of resistance to aggregation (a loss of structure and function) of pharmaceutical molecules—in particular, antibodies. Non-native aggregation is a ubiquitous hurdle to successful over-expression, purification, and storage of recombinant proteins throughout the biotechnology and biopharmaceutical industries, where antibodies are the largest growing class of pharmaceuticals. This research will be done in collaboration with Professor Christopher J. Roberts at the University of Delaware and

## Message from the Dean

*Nicholas J. Altiero, Dean*

As we approach the end of another calendar year, I would like to wish all of you a very happy holiday season and thank you for your strong support of the Tulane School of Science and Engineering this past year. Since the establishment of the School in 2006, we have reached out to all Tulane alumni who majored in a science or engineering discipline. It has been challenging establishing the identity of this new School among these more than 27,000 alumni but I believe that we have made tremendous progress.

[Read Dean's Message »](#)



## Number Crunchers

*Article by Benjamin Morris*

Everyone remembers their classes in high school math: the dreaded problem sets in algebra, calculus, and geometry brought home night after night, with seemingly never

any end in sight. Students across the country routinely bemoan math as their least favorite subject, but what if they knew what they could use it for as they pursue their careers—not just designing buildings or bridges or analyzing the stock market, but in something as important as saving lives?

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## Engineering the Future and Promoting Diversity

*Article by Alex Chasick*

This October, the Tulane chapter of the National Society of Black Engineers (NSBE) hosted "Engineering the Future," an academic expo designed to encourage local middle and high school students of color to pursue careers in science, technology, engineering, and mathematics (STEM) disciplines. NSBE members presented and demonstrated experiments in several STEM fields and spoke with students and parents about the benefits of pursuing STEM disciplines.

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Ecology and Evolutionary Biology Assistant Professor Caz Taylor received a complex systems scholar award of \$450,000 from the James S. McDonnell Foundation to study the movement and population dynamics of migratory species.

Mathematics and Center for Computational Science Post-Doctoral Fellow Carrie Manore was awarded \$480,718 from the NSF to model how human-caused changes to the environment affect risk of emerging infectious diseases and to determine sustainable management strategies to minimize this risk.

## CONTACT US

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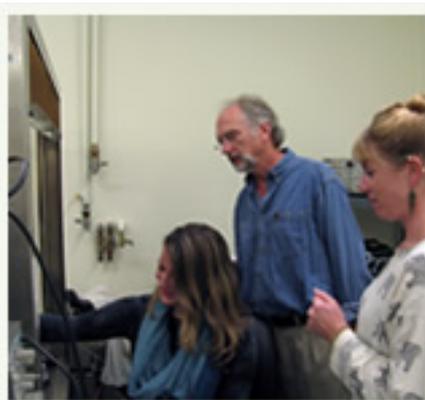
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## Helping Students Prepare for the Future

*Article by Kirby Messinger*

A career in the health sciences can be exciting and fulfilling, especially for students interested in the sciences. But often students have limited knowledge of the wide array of potential careers available. Ed ('78) and Jami Levy recognized the benefits of helping students gain real-world experience while giving back to the community. With their help, the School of Science and Engineering is expanding and solidifying the service-learning opportunities available to students, with a particular emphasis on integrating community engagement, their scientific coursework and discoveries, and possible career paths. The first Levy Professor for Integrated Discover and Community Engagement is James Cronin.

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## Emelina Sanchez: Catalyst for Chemistry's Success

*Article by Nicole Escarra*

When Emelina Sanchez joined the Tulane University Department of Chemistry in 1989, she never imagined that her experience weathering natural disaster and political upheaval in her native country of Nicaragua would enable her to face similar challenges in New Orleans.



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## Upcoming Events

*School of Science and Engineering Highlights*

### **AAU Arts & Sciences Deans Conference 2014**

Thursday, March 20 –  
Saturday, March 22, 2014  
New Orleans, Louisiana  
*Hosted jointly by the Tulane School of  
Liberal Arts & the School of Science  
and Engineering*

[For More Information »](#)

### **2014 ASEE Gulf Southwest Section Annual Conference**

Wednesday, April 2 –  
Friday, April 4, 2014  
New Orleans, Louisiana  
*Hosted by the Tulane School of*

### **14th Annual Tulane Engineering Forum**

Friday, April 4, 2014  
8:00 AM – 5:00 PM  
Ernest N. Morial Convention Center  
*Registration is Required*  
[For More Information »](#)

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