

Winter
2011

NEW WAVE NEWS

[Tulane Leads Group to Design New Dispersants »](#)[Researchers Track 'Where the Mud Goes' »](#)[Read Other News »](#)

ACCOLADES

Cell and Molecular Biology Professor Benjamin Hall was awarded \$180,000 from NSF to study the molecular mechanisms that guide the formation and development of excitatory synapses in the mammalian neocortex.

Chemistry Professor Janarthanan Jayawickramarajah was awarded \$360,000 from NSF to study the self-assembly and light harvesting functions of multi-porphyrin arrays in water.

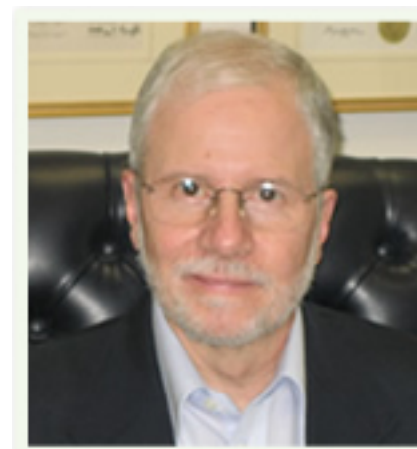
Ecology and Evolutionary Biology Professor Michael Blum was awarded \$130,987 from NSF to acquire a high-throughput DNA sequencer for ecological and evolutionary genomics.

Ecology and Evolutionary Biology Professor Jordan Karubian was awarded \$150,000 from NSF to study the behavioral ecology of a small bird, the red-backed fairy-wren, while providing Tulane undergrads with international research training experience in

Message from the Dean

Nicholas J. Altiero, Dean

Community engagement is an important element of the mission of any great university. At Tulane, community engagement has taken on particular significance in the wake of Hurricane Katrina as that experience has transformed the relationship between the University and the New Orleans community. In the aftermath of Katrina, Tulane became the first national research university to integrate public service into the undergraduate core curriculum. And, more recently, the establishment of the Tulane Empowers initiative has placed high priority on a range of programs that engage the University in the betterment of the community. Two aspects of community engagement that align closely with the strengths of the School of Science and Engineering are pre-college science, technology, engineering and mathematics (STEM) education and the role of technology transfer in economic development.



[Read Dean's Message »](#)



The Burk-Kleinpeter Early Career Professorship

Article by Robert M. Morris

With the establishment of the Burk-Kleinpeter Inc. Early Career Professorship, the School of Science and Engineering will soon add yet another bright young tenure-track scientist or engineer to its faculty — thanks to the generosity of one of the school's most loyal and longstanding supporters.

[Read Full Story »](#)

Research into Heavy Metals Makes Social Impact

Article by Robert M. Morris

With her latest research highlighted in the leading scientific journal *Nature*, Professor Karen Johannesson is receiving wide acclaim for her important discoveries about the origin of cancer-causing toxins in the drinking water in India, but her next step will be applying those findings right



northern Australia.

Ecology and Evolutionary Professor Caroline (Caz) Taylor was awarded \$130,000 from the Gulf of Mexico Research Initiative to study how the Deepwater Horizon oil spill has affected the larval stages of Blue crabs.

Mathematics Professor James (Mac) Hyman was awarded \$266,366 from NSF to develop mathematical models that can improve the effectiveness of intervention strategies for mitigating the impact of vector-borne infectious diseases, including: malaria, dengue fever, and West Nile virus.

Mathematics Professor Victor Moll was awarded \$320,000 from NSF to study mathematical questions related to the evaluation and analysis of definite integrals. This topic, even though they are encountered by undergraduates in elementary courses, contains a large collection of unsolved problems. The techniques developed by the PI involve Combinatorics, Number Theory and Special Functions.

CONTACT US

Tulane University
School of Science & Engineering
Suite 201, Lindy Boggs Center
for Energy and Biotechnology
New Orleans, LA 70118

Phone: 504-865-5764
Fax: 504-862-8747

✉ sse@tulane.edu

FEEDBACK

We Want to Hear From You!

Please send us your feedback on the newsletter to:

✉ candy@tulane.edu

Tulane
empowers

in Tulane's backyard.

[Read Full Story »](#)



Michael Drenski, Building Answers to Cutting-Edge Questions

Article by Robert M. Morris

While Michael Drenski's day-to-day work as Associate Director for Instrumentation at Tulane's PolyRMC center places him on the cutting-edge of materials science, he credits his widely-praised talents to lessons learned growing up on a small family farm in Ohio.

[Read Full Story »](#)

Spotlight on Student Research

Article by Robert M. Morris

Converting newsprint to gasoline, the evolution of the strawberry poison frog, autism and red blood cells are all among the research interests that have recently drawn attention to current students in the School of Science and Engineering.

[Read Full Story »](#)



Upcoming Events

School of Science and Engineering Spring 2012 Highlights

The Catherine and Henry Boh Professorship in Engineering Investiture Ceremony

Friday, March 9, 2012

3 PM – 5 PM

Woldenberg Art Center

Freeman Auditorium

Reception in Woodward Way following the conclusion of the ceremony

Everyone is Invited

2012 FIRST Robotics Bayou Regional

Wednesday, March 15 – Saturday, March 17, 2012

8 AM – 5 PM

Pontchartrain Center

Free and Open to the Public

[For More Information »](#)

School of Science and Engineering Outstanding Researcher Ceremony

Thursday, April 12, 2012

3 PM – 4 PM

Lavin-Bernick Center for University Life

Kendall Cram Lecture Hall
Room 213

Everyone is Invited

School of Science and Engineering Research Day – Poster Session

Thursday, April 12, 2012

4 PM – 6 PM

Lavin-Bernick Center for University Life

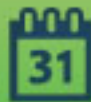
Qatar Ballroom
Room 212

Everyone is Invited

Send Us
YOUR NEWS



Send Us
YOUR EVENTS



SUBSCRIBE
To Newsletter



INVESTING IN SSE

Learn About Ways To Help »

12th Annual Tulane Engineering Forum

Friday, March 23, 2012

8 AM – 5 PM

Ernest N. Morial Convention Center

Registration is Required

[For More Information »](#)

[Register for the Forum »](#)

2012 Science and Engineering Alumni Awards Celebration – Call For Nominations »

[View All Events »](#)

2012 School of Science and Engineering Celebration Toast to Graduating Seniors

Saturday, May 19, 2012

Mercedes-Benz Superdome

All science and engineering graduating seniors and their guests are invited to join Dean Altiero and the School of Science and Engineering faculty for a celebration toast.

Immediately following the conclusion of the Undergraduate Diploma Ceremony

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