

CSMCONNECT

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COLLEGE OF SCIENCE AND MATHEMATICS BIENNIAL NEWSLETTER

BIOLOGY
AND PHYSICS

COMPUTER
SCIENCE

CHEMISTRY
AND BIOCHEMISTRY

MATHEMATICS
AND STATISTICS

CSMConnect is the first edition of our biannual newsletter designed to keep you informed of the latest activities and developments in the College of Science and Mathematics (CSM). CSM is soaring into the next level of national prominence through cutting-edge research. The College is active in local and international scientific communities and promotes innovation in teaching. CSM values the networks developed with partners on and off campus. You are important in our network of partners.

NEW Science Laboratory Building

Kennesaw State University opened a \$21 million, 73,000 square-foot science lab addition on Oct. 25, 2012.

Kennesaw State University opened a state-of-the-art science lab addition that will allow professors to teach tomorrow's scientists, ask fundamental research questions and make connections across disciplines.

"We are extremely appreciative of the support that we received for this project from the Board of Regents and the General Assembly," said Kennesaw State University President Daniel S. Papp. "This new science addition adds yet another niche of excellence to the KSU campus. Our undergraduate and graduate students will have access to top-notch classrooms and equipment, and our faculty will be able to further their research in first-rate facilities. It is the catalyst that will help catapult the College of Science and Mathematics and this university to the next level as we soar to national prominence."

The 73,000-square-foot, five-story building features six teaching labs, 17 research labs, and a light-filled atrium where students can gather and share ideas. The atrium connects the new building to the College of Science and Mathematics' existing Clendenin Building, which houses technology classrooms and the Department of Computer Science.

The building enables the College to add new programs to meet the growing demand. Two new graduate programs at Kennesaw State — a Master of Science in integrative biology, which started this fall, and a Master of Science in the chemical sciences, which starts in fall 2013 — emphasize the interdisciplinary nature

of scientific research. These programs would not be possible without the additional space. "This building is a game changer for the College and for the University," said Mark Anderson, dean of the College of Science and Mathematics. "Not only does it help us fulfill our overall mission of teaching, research and service, it provides us with the tools to help us teach our students how to learn in a way that uniquely prepares them for the future."

While the new building provides much-needed space, it is also energy efficient and is expected to meet Leadership in Energy and Environmental Design (LEED) Gold certification requirements for sustainability.

“ ...It is the catalyst that will help catapult us to the next level, as we soar to national prominence. ”



(Right)
Mark R. Anderson
became dean of the
College of Science
and Mathematics
on July 1, 2012.

MEET DEAN MARK R. ANDERSON

Mark R. Anderson was among a pool of 52 candidates who interviewed for the position in a national search chaired by Charles Amlaner, Kennesaw State vice president for research and dean of the Graduate College. "Mark's vast experience as a faculty member and administrator and his strong record as a researcher, make him the perfect fit for the College of Science and Mathematics," said W. Ken Harmon, provost and vice president for academic affairs at KSU.

Anderson earned a B.S. from Indiana University and a Ph.D. from the University of Wisconsin. He is a member of the American Chemical Society (ACS), the Society for Electroanalytical Chemistry, and the Electrochemical Society — where he also serves on the executive committee for the Physical/Analytical Division of the Electrochemical Society.

GOING GLOBAL

KSU delegation takes part in Americas Competitiveness Forum

Kennesaw State University's top global education administrator and the director of the University's groundbreaking center for promoting the advancement of science and mathematics education participated in the Americas Competitiveness Forum (ACF) in Cali, Columbia in October 2012.

Barry Morris, vice provost for strategic initiatives at Kennesaw State, and Adrian Epps, associate dean of the University's College of Science and Mathematics and director of its center for Advancing the Teaching of Mathematics and Science (A.T.O.M.S.) led discussions during a special ACF education session.

"It is an honor to partner with CIFAL Atlanta and the United Nations Institute for Training and Research (UNITAR) to bring together distinguished leaders from throughout the Americas to focus attention on the important role that innovation in education

(Right) KSU delegation at ACF in Cali, Columbia, Oct. 24-26, 2012.

contributes to the region's economic viability," Morris said. "This forum is a great opportunity to illustrate how Kennesaw State's strategic focus on global education, engagement and enhancing our state's math and science teacher workforce all come together to reflect real-world needs and objectives."

The ACF was hosted by Colombian President Juan Manuel Santos Calderón and brought together leaders of 34 countries. The forum is considered one of the Western Hemisphere's preminent events for government, education and business leaders to discuss innovative methods to achieve economic competitiveness.



“ I hope KSU's A.T.O.M.S Center can be an example and eventually partner with government and academic leaders attending the forum as they seek to achieve similar goals. ”

~Dr. Adrian Epps



NEW GRADUATE PROGRAMS

<http://cs.kennesaw.edu/MSCS/>

Master of Science in Computer Science (MSCS)

The MSCS offers excellent curriculum that blends theoretic foundations of computer science with the state-of-the-art computing technologies. The program provides students with opportunities in computer science research, advanced project development and interdisciplinary study with flexibility in study plans and class attendance options. Research/teaching assistantships with tuition remission, as well as co-ops/internships are available on a competitive basis.

<http://chemistry.kennesaw.edu/MSCB/>

Master of Science in Chemical Science (MSCB)

MSCB is a thesis-based, 33-credit-hour coursework and research program. It offers a flexible curriculum that is individually tailored to the student's background and research interests and is designed for completion within two academic years. Graduate students will work with research mentors. Teaching assistantships with tuition remission are available on a competitive basis.

<http://science.kennesaw.edu/biophys/ms-integrative-bio>

Master of Science in Integrative Biology (MSIB)

MSIB combines traditional, research-based graduate training with a strong emphasis on the rapidly emerging paradigm of integrative biology that spans scales (molecules, cells, populations and ecosystems) and disciplines (genetics, physiology and physics) within and outside of biology. This program is designed to allow students to complete course work and their thesis research within two academic years. Teaching assistantships with tuition remission are available on a competitive basis.

EXISTING GRADUATE PROGRAMS

<http://kennesaw.edu/msas>

Master of Science in Applied Statistics (MSAS)

The MSAS program is designed for coursework and an analysis project completion in 22 months. Students will gain much experience using a variety of commercial software, with a strong emphasis on SAS. Research/teaching assistantships with tuition remission, as well as co-ops/internships are available on a competitive basis.

Share **your** successes with us!

Visit us on the web and make sure we have the most up-to-date information on where you live, where you work and what interests you. With current contact information we can keep you updated on KSU news and feature you in Kennesaw State publications, as well as the community!

www.kennesaw.edu/alumni



CENTER FOR STATISTICS AND ANALYTICAL SERVICES

KSU statistics center works with companies to improve profitability

The statistics consulting center at Kennesaw State University is helping a growing number of companies sift through reams of data so they can operate more effectively and improve profitability. KSU is the only university in the state, and one of the few in the country, to offer training in SAS, the industry standard for business analytics software, across the undergraduate and graduate curriculums.

"KSU has outstanding faculty in statistics and analytics," said W. Ken Harmon, KSU provost and vice president for academic affairs. "We had frequent requests from the campus and the community for this service. Therefore, we thought we should form a center to house this expertise and to deliver a value-added service."

"We have been astounded at the amount of work that has been brought to CSAS from regional companies and governmental agencies," said Dr. Jennifer L. Priestley, associate professor of statistics and director of CSAS. "The overwhelming success of the center is a function of the increased demand for analytical consulting and KSU's emerging reputation in statistics and applied analytics."



(Right) Photo of Dr. Jennifer L. Priestley, Assoc. Professor of Statistics and Director of CSAS.

RESEARCH & THE NEW SCIENCE LAB

New laboratory catapults KSU into national research arena

Classrooms in the College of Science and Mathematics' science lab addition, opened in January, providing the impetus to propel Kennesaw State University to new levels of science education and research.

"The science lab addition is one of the most important events in the history of the College of Science and Mathematics," said Ron Matson, associate vice president for faculty and professor of biology. The research and learning opportunities the addition provides will help catapult us into the national arena as a major contributor in biological, chemical and biotechnology research."

Faculty from the college brought in nearly \$16 million dollars in external grants including

several from the National Science Foundation and the National Institutes of Health. The previous lack of lab space severely limited KSU's research productivity as well as the ability to offer specialized courses necessary to support the state's pharmaceutical and

biomedical industries - industries that are expected to add more than 18,600 new jobs in Georgia over the next six years.

The five-story addition, which connects to the existing science building, adds 73,000 square feet, including two floors of state-of-the-art biology and chemistry

labs designed especially for faculty and graduate research. Another floor, dedicated to teaching labs, provides room to expand STEM (science, technology, engineering and mathematics) education. In keeping with the university's commitment to energy efficiency



(Above) Dr. M. Davis in the Davis Lab. Photos courtesy of KSU.



(Above, left to right) Photo of Dr. L. Peterson, Dr. H. Davis, Dr. D. Papp, Dr. R. Matson and Dr. M. Anderson at the ribbon cutting ceremony.

and functionality, the \$21 million addition was designed by the Perkins + Will architectural firm to meet (LEED) Gold certification requirements.

"This new facility enables every graduate and undergraduate researcher to effectively collaborate among themselves or with other academic components allowing flexibility within programs," Matson added, "enabling the college to offer new areas of study including new master's programs in integrative biology and chemical sciences. Without that building, it would be impossible."



CSM DISTINGUISHED ALUMNI

The KSU Alumni Association presented Distinguished Alumni Awards and the Betty Seigel Award in October 2012. Congratulations to **Jerry Samples** (photo above), a CSM Alumnus, who received the Distinguished Alumni Award. Jerry earned a Master's of Science in Applied Computer Science degree



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<http://science.kennesaw.edu/news>



This newsletter is a collaboration between the College of Science and Mathematics and the KSU Alumni Association.



CSM DISTINGUISHED FACULTY

Dr. Daniela Tapu (photo above), Associate Professor of Chemistry, was presented the Betty Siegel Faculty Member of the Year Award 2012, by the KSU Alumni Association.

Plant the seed of Education

and donate to the College of Science and Mathematics



UPCOMING EVENTS

MBIG Seminar 2013 begins Friday, January 18th. Visit website for more information:
<http://science.kennesaw.edu/mbig.html>

ScienceTALK 2013 seminar series begins February 7th. Visit website for more information:
<http://science.kennesaw.edu/sciencetalk.html>



ScienceTALK is a seminar series focusing on recent developments in the fields of Mathematics and Science. All faculty, staff, students and alumni are invited to attend.



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