

STOCKTON COLLEGE

THE RICHARD STOCKTON COLLEGE OF NEW JERSEY



Computational Science Dual-Degree Program to Compete for Top Honors at World's Largest Supercomputing Conference

Galloway Resident, Stockton Professor to Present Computational Science Curriculum to 2010 Undergraduate Program Award Committee

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Galloway Township, NJ- A team of students and professors from The Richard Stockton College of New Jersey's computational science program will participate in SC'10, the world's largest international supercomputing conference, from November 12 through November 17, 2010.

Approximately 10,000 government and industry representatives, as well as educators and students, are expected to participate in the SC'10 conference, which will be held in New Orleans.

Stockton's new Computational Science (CPLS) program is one of five programs in the nation that will compete for the Undergraduate Computational Engineering and Science (UCES) 2010 Award at SC'10. As data accumulates, the need for computational scientists grows. Innovative programs that will prepare the next generation of scientists will be recognized and presented as models for other institutions to follow.

The award, which is funded by the U.S. Department of Energy, is administered annually by the Krell Institute. Dr. Russell Manson, associate professor of computational science and director of the computational science master's, Dr. Monir Sharobeam, professor of computational science, and Dr. Robert Olsen, assistant professor of computational science, are Stockton's finalists for the award.

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During SC'10, the five programs will be showcased for their success in building excellent computational science curricula. Dr. Russell Manson will present the CPLS curriculum to a panel of judges during a competition between the finalists on behalf of the CPLS program. The four other higher education institutions in the competition are as follows: Radford University; Duquesne University; University of Oklahoma; and Prince George's Community College.

Stockton's CPLS program is currently in its fourth academic year and houses the College's newest graduate degree program, the Master of Science in Computational Science (MSCP). Both degree programs have already attracted a wide variety of students from computer science and math majors to employees of the Federal Aviation Administration's William J. Hughes Technical Center.

Five Stockton students will be participating in the Education Program, which is a four-day agenda of workshops and tutorials designed to help educators incorporate the latest technology and resources into their lessons and to introduce undergraduate and graduate students to the various avenues of research.

Two students, Michael Laielli, a resident of Brigantine, and Richard Page, a resident of Manahawkin, will present their petascale modeling research on sediment transport during the Education Program.

Dr. Monir Sharobeam will lead an engineering workshop during the Education Program to introduce the major concepts in solid mechanics. His presentation will also include a lesson on a computational modeling method that can be applied to structural mechanics problems that are too complex to solve analytically.

Stockton professors and students have participated in SC conferences in the past. Dr. Russell Manson, Dr. Monir Sharobeam, Dr. Robert Olsen and students Michael Laielli and Richard Page participated in last year's SC conference.

For more information on SC'10, visit <http://sc10.supercomputing.org>.

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