

INVESTS' Evident Technologies presented the Princess of Thailand with purple LEDs (light emitting diodes) manufactured on the Russell Sage campus, during the royal visit in May. The LEDs are the first enabled by semiconductor nanophosphors. Due to the tunability of quantum dot emission colors, LEDs enabled by these materials can emit almost any color — in this case purple, the Princess' favorite color.



New Director + New Name + New Tenant at INVEST=

NEW OPPORTUNITIES

IN THE *Sciences* AT SAGE

Since Professor Tom Keane was appointed director of the INVEST Incubator in 2008, the Incubator — the only such facility to be housed at a college for women nationally — has adopted a new name and recruited an additional tenant in pursuit of its mission to provide space and resources to help high-tech companies expand, while advancing Sage's programs in science, technology and business.

The acronym INVEST remains the same, but now stands for Incubator for *New Ventures in Emerging Sciences and Technologies*. "It covers everything," said Keane, explaining how replacing "nanotechnology" with "new" more accurately conveys the opportunities for scientific startups in all disciplines — from biotechnology to nanotechnology — at INVEST.

Since 2005, 12 students have interned at Evident Technologies Inc.— a pioneer and world leader in the development of quantum dots — located in John Paine Hall on Russell Sage's campus. Keane hopes to see the number of students getting professional experience

through INVEST increase to 29 by the end of the 2010 academic year, as a result of a second tenant — The Paper Battery Company — in the INVEST labs. The

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The chair of the department of Chemistry and Physics at Sage, Professor Tom Keane initiated the INVEST project in 2005 and previously served as academic liaison to INVEST. In his new role as director, he will cultivate new INVEST tenants, increase its visibility, and work with faculty to integrate nanoscience throughout the RSC curriculum.

opportunities for students in other fields — especially business, marketing and communications — will emerge as the scientific breakthroughs from INVEST labs are commercialized.

Company — named one of the top 10 most promising Energy & Clean Technology companies at Rice University's Alliance for Technology & Entrepreneurship Energy & Clean Technology Venture Forum last year — is developing a flexible battery made of cellulose, the same plant material that makes paper.

While the internships at INVEST have focused on Sage's chemistry and biochemistry majors, Keane says that

Those students will be ready. Nanotechnology principles will be integrated everywhere at Russell Sage, from nursing classes to the WORLD courses, this fall. A National Science Foundation grant supported a student and faculty effort to adapt laboratory modules in nanotechnology for use across the undergraduate curriculum. The students' research was summarized in a poster presentation — *Technology of the Future by Women of the Future: Incorporating Nanotechnology into the Classroom* — that was accepted by the 238th National Meeting and Exposition of the American Chemical Society (The meeting in Washington, D.C. is expected to attract approximately 13,000 chemists, chemical engineers, academics, and related professionals.)

"It starts with chemistry at the core, but is radiating out," said Keane of this exposure to cutting edge science that is influencing entrepreneurship, innovation and leadership education at Russell Sage. A project to expand the incubator for non-lab-based startups and visiting entrepreneurs in Hart Hall is underway, and Keane noted the potential to develop an accelerated chemistry/MBA degree for Russell Sage women, calling it a very powerful combination.

"It is a great example of the 'To Do' aspect of 'To Be, To Know, To Do,'" said Keane. "All because of an exchange between scientists, faculty and students going back and forth."