



U.S. Rep. Slaughter Announces \$1.8 Million for Nanosystems Initiative

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April 10, 2007, Congresswoman Louise Slaughter and University of Rochester President Joel Seligman today announce \$1.8 million in f unding to start the Nanosystems Initiative, a new multi-million dollar nanotechnology research center. The initiative will focus on developin g fuel cells and biosensors—two areas that are expected to see tremendous growth in the near future, and in which the University is alread y notably strong.

"Under President Seligman's leadership, the University of Rochester continues to be on the cutting edge of science, research, and innovation," says Slaughter. "The Nanosystems Initiative is an exciting project that will lead to scientific advancement at the university and economic growth for the broader Rochester community. I'm pleased that I have been able to help support this program by securing \$1.8 million in federal funding for it this year."

"Louise Slaughter's support has been critical in helping us kick-start our leap into the exciting world of nanotechnology," says Seligma n. "With the creation of the Nanosystems Initiative, the University of Rochester has an unprecedented opportunity to be one of the dominan t players in the future of fuel cells and biosensor technology."

The University plans to completely renovate and equip the Institute of Optics Annex building, adjoining the Wilmot building and Rober t B. Goergen Hall for Biomedical Engineering and Optics. The center will be open to researchers from a variety of disciplines across the University's campuses, and will focus primarily on greatly expanding the current research on fuel cells and biosensors.

With its two focus areas, the Nanosystems Initiative will complement and add unique capabilities to the critical mass of New York Stat e nanotechnology that exists at the State University at Albany, Cornell University, and Rensselaer Polytechnic Institute. However, the nanosys tems center at the University of Rochester will be unique in terms of its capabilities for high-temperature nano-materials found in fuel cells, a nd for optical interactions with molecular and genetic tracers. These rare capabilities will also be available to scientists from other universitie s.

Nicholas P. Bigelow, professor of physics and of optics and senior scientist at the Laboratory for Laser Energetics, said equipment need ed for nano-research is often highly specialized and difficult to obtain. The new nanotechnology initiative will allow the creation of a center th at will be shared by many scientists across the campus, and from a variety of different disciplines.

"The center will be truly interdisciplinary, and will involve faculty and students in optics, chemistry, physics, and biomedical, chemical a nd electrical engineering, as well as the University of Rochester Medical Center and all members of the community," says Bigelow. "In this se nse, the new center will bring together researchers from across the university, allowing the whole to be greater than the sum of its parts."

Projects of nanotechnology teams will span a wide range of nanoscience and technology. One group, for example, is developing fast, se nsitive biosensors for pathogens such as the H5N1 "bird flu" using nano-engineered optical structures. Meanwhile, another project involves d eveloping new and highly efficient transfer membranes for fuel cells.

A robust nanosystems facility that specializes in optical biosensors and fuels cells can be an extraordinarily productive source of technol ogy and commercialization in precisely the technology areas where nascent industry clusters need accelerated growth.

By developing new technologies, the Nanosystems Initiative will provide an important resource for economic development in the Roches ter region and a scalable model for partnering business development with other research universities.

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