March 19, 2009



Dear Friends.

The State Senate's stimulus forums provide an important opportunity for the public to participate in the discussions of how to invest these federal funds for maximum impact. As always, feel free to contact us with your thoughts and suggestions. Write to: contact@nystar.state.ny.us.

—Ed Reinfurt, Executive Director of NYSTAR

Senate Holds Town Hall Meetings on Stimulus

Inside this issue: Senate Talks Stimulus NYS Health IT Strategy Spotlight on Facilities **Funding Opportunities** Postdoc Fellowships NYSTAR HPC Program **Upcoming Events nySTARS**

Young Innovators

NYSTAR's internationally recognized programs spur the development, design and manufacture of new technologies in a wide range of areas, including nanotechnology, electronics, life sciences, information technology, materials processing, and many others.

www.nystar.state.ny.us

The NYS Senate is holding a series of town hall forums to provide information on the federal stimulus plan. Meetings have already been held in Queens, Long Island, and Albany. There are meetings scheduled for Syracuse, Buffalo and other cities.

At the meeting in Albany, State Senate Majority Leader Malcolm Smith said, "If you do not take advantage of this in a short period of time, we will have a big problem on our hands because we will have to give this money back."

Representatives from Governor Paterson's office and many state agencies including the State Department of Transportation, Environmental Facilities Corporation, Department of Environmental Conservation, Department of State and NYSERDA have been on hand to discuss how local communities and programs can benefit from the federal stimulus package, what projects are eligible for funding, and what they need to know to obtain that funding.

The American Recovery and Reinvestment Act includes more than \$24 billion for New York State, much of which will be available for infrastructure projects and other programs in local communities.

NYSTAR Executive Director, Ed Reinfurt, presented information on how the American Recovery and Reinvestment Act (ARRA) can help technology investments in New York State.

Specfically, Reinfurt spoke about stimulus funding through the National Institutes of Health, the National Science Foundation and the Department of Energy. Funding from these agencies will help improve and expand university assets and benefit plans for smart grid implementation.

The following funding sources were identified:

The National Institutes of Health received \$10.4 billion in funding from the ARRA.

The National Science Foundation received \$3 billion in funding from the ARRA. These funds can be broken down as follows:

\$2.5 billion to research related activities including \$300 million for the purchase of research instrumentation and \$200 million academic research facility modernization; \$100 million for education and human resources; and \$400 million for major research equipment and facility construction.

For Reinfurt's presentation: http://www.nystar.state.ny.us/sp/0 9/0903sp.pdf

For stimulus information: http://www.nystar.state.ny.us/stim ulus.htm

NYS Health IT Strategy May Be Model for the Nation

Science Daily

Health information technology programs implemented in NY state are active and functioning a full two years after being established, and could serve as models for new federal initiatives, according to a study by investigators at Weill Cornell Medical College.

"Programs such as these could transform the way health care is delivered nationally and locally," says senior author Dr. Rainu Kaushal, chief of the Division of Quality and Clinical Informatics and associate professor of pediatrics, public health and medicine at Weill Cornell Medical College.

If implemented correctly, information technology (IT) systems -- including electronic health records -- have the potential to improve quality of care, increase efficiency and cost savings, reduce medical errors, and enhance continuity of care.

http://www.sciencedaily.com/rele ases/2009/03/090310152331.htm

Spotlight on NY's Facilities

The **Biomedical Imaging Laboratory** at Columbia University supports the processing and analysis and evaluation of a diversity of medical imaging modalities, including PET, CT, MRI, ultrasound and digital radiographs in DICOM and "raw" file formats. Servers include: IBM xSeries Server, dual AMD 64-bit Opteron Processors, 8 GBs of ram; IBM xSeries Server, dual AMD 64-bit Opteron Processors, 10 GBs of ram; and others.

For assistance in using this facility contact: Jason Doling at NYSTAR at 518-292-5700.

NYSTAR's **Funding Opportunity Newsletter** (FON) is now part of the weekly e-Newsletter. The FON provides information on funding opportunities for high-technology academic research and economic development in NYS. To see the newsletter: http://www.nystar.state.ny.us/fon/funding.htm

To visit the research equipment and facilities database: http://www.nystar.state.ny.us/ref/index.htm

Entrepreneur Postdoctoral Fellowships

The Kauffman Entrepreneur Postdoctoral Fellows program provides an opportunity for postdocs in science and technology to launch their research from lab to market. Deadline 5/1/09.

http://www.entrepreneurship.org/PolicyForum/Blog/post/2009/03/09/Entrepreneur-Postdoctoral-Fellowships-Open.aspx

NYSTAR's HPC Program Highlighted



At the recent Center for Electronic Imaging Systems Technol-

ogy Showcase at University of Rochester, NYSTAR and others presented information on NY's High Performance Computing consortium. Discussions included: how to apply HPC assets to business challenges, innovative ways to collaborate, and how to get time and assistance at the supercomputing sites across NY.

For more about the NYSTAR supercomputing program:

http://www.nystar.state.ny.us/hpc/

About HPC Computing Program.

http://www.nystar.state.ny.us/hpc/

Upcoming Events

April 1-2, 2009 - New York City

Wall Street Green Trading Summit http://www.wsgts.com/index.php

April 2-3, 2009 - Albany, NY

Advanced Materials for Greenhouse Gas Reduction Sponsored by Clarkson University and NYSERDA http://www.clarkson.edu/camp/index.html

April 17, 2009 - New York City

Solar Professionals Seminar: Getting into the Business http://www.csebcc.org/

April 17, 2009 - Cazenovia, NY

5th Annual Symposium on Energy in the 21st Century http://www.cazenovia.edu/Default.aspx?tabid=355&ctl=Details&mid=2 157&itemID=2010



NYSTAR congratulates **Dr. Lara Estroff** on receiving a



2009 Early Career Development Award from the National Science Foundation. **Dr.**

Estroff is a 2006 NYSTAR James D. Watson Investigator Program Awards winner. She received the Watson

award to develop new synthetic pathways to create biomaterials for bone and tooth restoration.

Cornell Chronicle Online
The Faculty Early Career Development Program rewards junior faculty who "exemplify the role of teacher-scholars through outstanding research,

excellent education and the integration of education and research within the context of the mission of their organization," according to the NSF.

Estroff, assistant professor of materials science and engineering, was awarded \$465,000 over five years to study how polymer networks become incorporated into macroscopic, single crystals. Estroff hopes this work could lead to a new class of composite materials with potential applications ranging from new formulations of pharmaceutical drugs to materials for energy and storage. —Anne Ju

http://www.news.cornell.edu/stories/March09/careerAwards.html

YOUNG INNOVATORS

Students Launch Water Sensors

Tech Valley High School News
Tech Valley High School
freshmen launched their homemade water sensors in the
frigid waters of the Hudson
River.

With news crews watching and recording, the approximately 35 students sunk their sensors in the waters of the Hudson River to collect water temperature data.

The work is part a partnership Tech Valley High School has launched with the Beacon Institute for Rivers and Estuaries, through which TVHS is piloting the SENSE IT, a unique and innovative environmental curriculum designed by Beacon Institute for Rivers and Estuaries. Beacon Institute is pioneering the River and Estuary Observatory Network (REON) – a real-time

integrated network of sensors, robotics and computational technology distributed throughout the 315-mile river to monitor the health of the river, in partnership with Clarkson University and IBM.

SENSE IT brings REON technology into the classroom with professional development and curricula modules for teachers to implement with their students in constructing prototype water sensors, with the ultimate goal of engaging students in science, engineering and technology career paths.

The students recorded the data and the information will be shared with the Beacon Institute researchers.

http://www.techvalleyhigh.org/news/3.1-

3.15.09/Sensers_Launched.htm



Ed Reinfurt Executive Director NYSTAR



David Paterson Governor