

February 26, 2009

NYSTAR[®] Sci ☆ Tech News Bytes

Dear Friends,

NYSTAR salutes Silicon Imaging for their connection to the Academy Awards Best Picture announced last weekend. 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

Technology Gets an Oscar

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The Albany Business Review

Much of the film "Slumdog Millionaire," winner of eight Academy Awards, was shot with a camera developed in Niskayuna.

The SI-2K was developed by Silicon Imaging.

Slumdog, winner of four Golden Globes and nominated for 10 Oscars, won eight Academy Awards last night, including one for Best Picture.

The love story is about a teen

who rises from the slums of Mumbai to become a sensation on India's version of Who Wants to be a Millionaire? Silicon Imaging, in a news release in January, quoted the film's director of photography, Anthony Dod Mantle, explaining the challenges he faced making the film.

"I had to find a camera set up that would be ergonomic enough for me to throw myself around the slums chasing the children whilst, at the same

time, withhold as much detail in the shadows and highlights" Mantle said. "'Slumdog Millionaire' needed a completely different tactical approach." Silicon Imaging is an 8-year-old company with offices in Troy, N.Y. and Costa Mesa, Calif., where the manufacturing is done.

—Richard D'Errico

http://www.bizjournals.com/albany/stories/2009/02/23/daily8.html?ana=from_rss

Lawmaker Will Unveil Bill Allowing NYC Council to OK Tax Credits for Life-Sci Companies

Genome Web

A New York state lawmaker is weeks away from introducing a bill that would allow New York City to award up to \$250,000 in tax credits over four years to life-science companies that plan to build new facilities or create jobs in the Big Apple, he said last week. Assemblymember Mark Weprin (D-Little Neck) told *BioRegion News* he was working with the office of City Council Speaker Christine Quinn, who originally proposed the bill, and other city and state officials to finalize language for the refundable tax credit legislation.

"We hope to do that within the next couple of weeks. We're working on exactly how to word it," Weprin said. "This is

a chance for us to reach out to some emerging markets. We have the best hospitals and medical centers in the country, and we should be the one leading on world-class research in the biotech area."

Asked if the potential changes to the bill include the dollar size of the proposed tax credit, Weprin said that may change depending on the view of the measure's state Senate sponsor, Tom Duane (D-Manhattan). However, he hinted that he did not foresee such a change. "This was [Quinn's] idea. She proposed the number to me. It sounds like a fine number to me, but I have not spoken to Tom yet about his bill," said Weprin. "I'm sure than Senator Duane and I will both be happy to put in this bill as the council

feels they can support."

According to Quinn, the tax credit would help New York City "create nearly a thousand high-tech and high paid jobs."

New York City's difficulty in parlaying its sizeable base of research institutions into a top-tier life-sci cluster has been a longtime source of frustration for industry leaders and entrepreneurs. Despite being home to 58 research centers that draw more than \$1 billion in National Institutes of Health research grants each year, the city has lost most of its life-sci startups to other parts of the state, as well as neighboring New Jersey and other states.

<http://www.genomeweb.com/print/912242?page=show>

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

Spotlight on NY's Facilities

The SUNY Center for Sustainable and Renewable Energy (CSRE) housed at SUNY College of Environmental Science and Forestry in Syracuse conducts research in various areas including: renewable carbonate fuel cell operations, photovoltaic power generation, solar-fueled hydrogen generation, biomass energy feedstock agroforestry production, and others.

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

www.nystar.state.ny.us

Virtual College Fair for Female Applicants Interested in High-Tech Fields

RIT University News
Rochester Institute of Technology continues to look for innovative ways to reach young girls and women about the career opportunities available in the science, technology, engineering and math (commonly referred to as "STEM") disciplines.

With decisions looming for high school seniors about where to attend college this fall, RIT is hosting a "virtual college fair" from 4 to 9 p.m. on Feb. 26, specifically for its female applicants and other female high school students from across the country interested in the STEM majors.

Female faculty and students from RIT's College of Science, College of Applied Science and Technology, Kate Gleason College of Engineering and B. Thomas Golisano College of Computing and Information Sciences, along with representatives from

RIT's Admissions Office and Financial Aid Office will be in the chat rooms to answer questions.

"For some female students this will be their first connection to RIT as they just took the PSATs, while for others, they've applied to RIT and may have previously attended one of our open houses," says Marian Nicoletti, RIT's senior associate director of undergraduate admissions. "The virtual chat is a great opportunity for high school students to talk directly to a current female RIT student about a specific STEM program. We'll have chat rooms set-up for each of the different colleges."

Catina Jelfo, a first-year mechanical engineering major at RIT, is among those who will "chat" with high school students. —Kelly Downs

<http://www.rit.edu/news/?v=46629>

Upcoming Events

March 9, 2009 - Albany, NY

Capital Region Energy Forum "Our Monetary System: What Lies Ahead?"

http://www.informz.net/ceg/archives/archive_733985.html

April 8, 2009 - Ithaca, NY

An in-depth introduction to the Cornell Center for Materials Research Shared Experimental Facilities

<http://www.ccmr.cornell.edu/industry/facilities101/index.html>

☆ NYSTARS ☆



NYSTAR salutes NYU Chemistry Professor Nadrian Seeman for his ongoing work in nanotechnology.

NYU News Release

Chemists at New York University and China's Nanjing University have developed a two-armed nanorobotic device that can manipulate molecules within a device built from DNA. The device is described in the latest issue of the journal *Nature Nanotechnology*.

"The aim of nanotechnology is to put specific atomic and molecular species where we want them and when we want them

there," said NYU Chemistry Professor Nadrian Seeman, one of the co-authors. "This is a programmable unit that allows researchers to capture and maneuver patterns on a scale that is unprecedented." The device is approximately 150 x 50 x 8 nanometers. A nanometer is one billionth of a meter. Put another way, if a nanometer were the size of a normal apple, measuring approximately 10 centimeters in diameter, a normal apple, enlarged proportionally, would be roughly the size of the earth.

<http://www.nyu.edu/public.affairs/releases/detail/2496>

Program Announced on Design in the Clean Energy Revolution

The role of Design in the Clean Energy Revolution

This program is for designers involved or interested in renewable energy. Join expert panelists from the wind, solar and alternative energy sectors

for a discussion of the opportunities for designers and architects to develop renewable energy products.

March 25, Long Island City

<http://www.nydesigns.org/DesignCleanEnergy/>

Jump Start for Battery Industry

Technology Review

Provisions in the Congressional stimulus bill could help jump-start a new, multibillion-dollar industry in the United States for manufacturing advanced batteries for hybrids and electric vehicles and for storing energy from the electrical grid to enable the widespread use of renewable energy. The nearly \$790 billion economic stimulus legislation

contains tens of billions of dollars in loans, grants, and tax incentives for advanced battery research and manufacturing, as well as incentives for plug-in hybrids and improvements to the electrical grid, which could help create a market for these batteries.

—Kevin Bullis

<http://www.technologyreview.com/energy/22188/?a=f>



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