Publications


Proceedings


Patents

Method and Apparatus for Examining a Tissue Using the Spectral Wing Emission Therefrom Induced by Visible to Infrared Photoexcitation, R. R. Alfano, S. G. Demos, G. Zhang, #6,656,556 B1.

CUNY Chancellor Commends Governor For $10 Million CUNY-CAT Renewal

Research Aids New York Economy, Technology and Healthcare

City University Chancellor Matthew Goldstein has commended Governor George E. Pataki and NYSTAR Executive Director Dr. Russell W. Bessette for their leadership and support for the renewal of CUNY’s New York State Center for Advanced Technology in Photonics Applications (CUNY-CAT). The Center, which is housed at City College, will receive $10 million over the next ten years.

Governor Pataki announced recently that the CUNY-CAT is among ten Centers for Advanced Technology at leading universities in New York State that are newly designated or renewed by the New York State Office of Science, Technology and Academic Research (NYSTAR). The Center conducts research in areas ranging from less invasive cancer imaging to nanoscale photonic materials, and transfers the technology to its industry partners for development. It is part of an overall initiative by New York State to encourage greater technological and economic cooperation between industries and New York’s research universities.

In a letter to Governor Pataki, Chancellor Goldstein said, “I am confident that over the next ten years the CUNY-CAT will continue to be one of the top sites for R&D in the photonics field, as well as generating significant revenue, cost savings, and jobs for New York State companies.”

Dr. Goldstein noted that over the last decade the CUNY-CAT has had a beneficial economic impact on New York State through collaborations with nearly 60 companies.

“The CUNY-CAT has generated $50 million in new revenues and cost savings for New York State businesses, helped create or retain over 160 industrial jobs, and generated over $10 million in industrial support for CAT projects,” he said.

More than 250 papers have been published by CUNY-CAT scientists and the Center has been awarded over

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$10 Million CUNY-CAT Renewal

The CUNY-CAT assists New York State companies by facilitating commercialization of applications through product development, licensing intellectual property, and technology transfer. It offers companies access to CUNY staff and facilities, trains workers for industry, and prepares students -- including many from minority groups underrepresented in the sciences -- for academic and industry careers. In addition, it helps nurture small and start-up companies and leverages its funding to secure additional resources.

The CUNY-CAT will also work to secure federal funding in partnership with industry. According to Dr. Alfano, “the Center will outreach to and collaborate with New York State companies on applied photonics research, especially small companies.” The Center’s Business Development Manager, Alan Doctor, added that, “CUNY-CAT outreach will feature consultations on company needs, product/process testing, help with funding applications, incubator space at CUNY and other support activities.”

Training programs will include upgrading company technician skills, seminars and short courses on key topics in the photonics industry, hands-on company internships, and course development.

New York State companies have provided strong support for the CUNY-CAT’s renewal, including over $800,000 in cash commitments for the first year. These include Quantronix, Northrop Grumman, the Infotonics Technology Center, MediPhotonics Development Corp., Applied NanoWorks, Lockheed Martin and Computer Instruments Corporation.

The CUNY-CAT also receives support from The City University. Facilities and equipment are available on the campuses of five CUNY senior colleges. Approximately 20 faculty members from the University’s science and engineering departments are affiliated with the Center.

New York State’s CAT program, which consists of 15 research centers, has been highly successful. In a five-year period, the CATs have helped create or retain more than 5,300 jobs and generated more than $1.7 billion in private sector revenues, cost savings and capital expenditures.

“The CUNY-CAT will continue to play a significant role in this successful effort,” Chancellor Goldstein said.

For more information about the CUNY-CAT, please visit http://www.CunyPhotonics.com/ or contact Alan Doctor at 212-650-8265.

Ph.D. Candidate

Doctoral student Jamal Hafiez Ali has passed his Ph.D. Dissertation Defense on the way to receiving his doctorate in physics. Mr. Ali’s thesis is entitled “Light Propagation in Paint and Prostate Human Tissues Using Visible to Mid-IR Spectroscopy and Imaging Techniques.” The Dissertation Committee is composed of Professor Joel Gersten, Professor Ping-San Ho, Dr. Jason Koutcher, and Dr. Francesco Pellegrino. Mr. Ali has been mentored by Dr. Robert R. Alfano, Distinguished Professor of Science and Engineering and Director of CCNY’s Institute for Ultrafast Spectroscopy and Lasers.