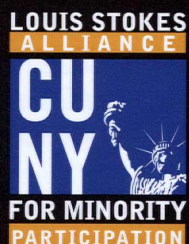


# new york city alliance

NEWS



## Urban University Conference Series

Volume XXIV  
Issue I  
Spring 2012

# NANOTECHNOLOGY

March 26, 2012

# ENGINEERING

April 20, 2012

# BIOLOGY

April 26, 2012

# MATHEMATICS

April 27, 2012

# CHEMISTRY

60<sup>th</sup> Annual Undergraduate Research Symposium (ACS)

May 5, 2012



# 2012 KEYNOTE SPEAKERS

A. James Hicks Program Director

## CUNY CENTRAL ADMINISTRATION

Matthew Goldstein Chancellor

## PROJECT DIRECTORS

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Leon Johnson Medgar Evers  
Louise Squitieri Bronx CC

## PROJECT ADMINISTRATOR

Claude Brathwaite City

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Mohsin Patwary Medgar Evers  
Reginald Blake NYC College of Tech.  
Larry Liebovitch Queens  
TBA Queensborough CC  
Panayiotis Meleties York

New York City Alliance News

Editor: Claude Brathwaite

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Individuals wishing to be added to the mailing list should contact Jeanette Schnabel at (212) 650-8854, fax (212) 650-8855.

The New York City Louis Stokes Alliance for Minority Participation is funded under a cooperative agreement with the National Science Foundation.



## Jean M. Andino

*Associate Professor of Chemical Engineering, Senior Sustainability Scholar in the Global Institute of Sustainability, and Graduate Faculty of Civil, Environmental, and Sustainable Engineering at Arizona State University*

Prior to being recruited to ASU, Dr. Andino was a tenured Associate Professor in the Department of Environmental Engineering Sciences at the University of Florida. Dr. Andino received her Ph.D. in Chemical Engineering from the California Institute of Technology. Her research focuses on chemical kinetics and mechanisms as applied to the fields of atmospheric chemistry, air pollutant sensing, and air pollution control.



## Carlos Silvera Batista

*Post Doctoral Fellow, National Institute of Standards and Tech.* Carlos received his bachelors degree in Chemical Engineering from the Universidad de San Buenaventura, Cartagena. Carlos received his Ph.D. in chemical engineering from the University of Florida.



## Carlos Brody

*Associate Professor, Princeton Neuroscience Institute & Department of Molecular Biology, Investigator of the Howard Hughes Medical Institute*

Carlos Brody completed his Ph.D. in "Computation and Neural Systems" at Caltech. He became a postdoctoral researcher at UNAM, Mexico City, where Carlos worked on neurocomputational models of short-term memory and decision-making. His first faculty position was at Cold Spring Harbor Laboratory in Long Island, NY. In 2006, Carlos became an Associate Professor at Princeton University, and in 2008, he was named an Investigator of the Howard Hughes Medical Institute.



## Louis E. Brus

*S.L. Mitchill Prof. of Chemistry, Dept. of Chemistry, Columbia University, NY*

Prof. Brus has a B.A. from Rice University and a Ph.D. from Columbia University, both in Chemical Physics. In 1973, he joined the research area of Bell Laboratories in Murray Hill, NJ, where he became Distinguished Member of Technical Staff. He returned to Columbia in 1996, where he is now S.L. Mitchill Professor of Chemistry.



## William A. Massey

*Edwin S. Wilsey Professor, Department of Operations Research and Financial Engineering, Princeton University*

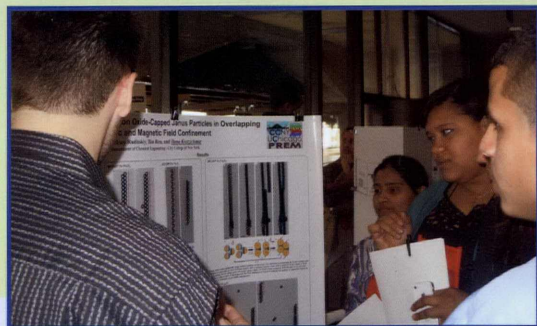
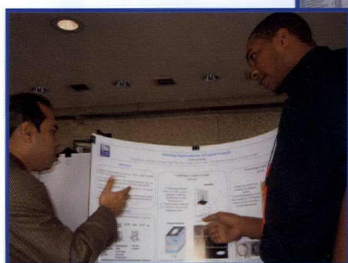
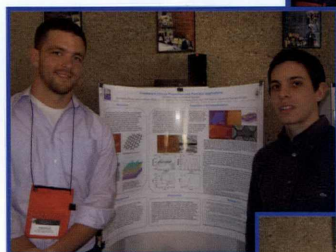
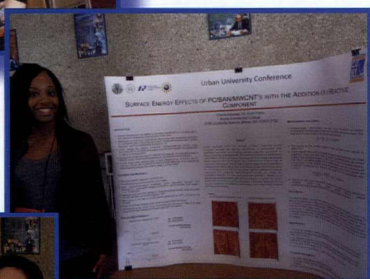
William Massey received his undergraduate degree in Mathematics from Princeton University in 1977. After graduation, he received a Bell Labs Cooperative Research Fellowship for minorities which funded the training for his Ph.D. in Mathematics from Stanford University in 1981. William was a member of technical staff in the Mathematical Sciences Research Center at Bell Laboratories until 2001.



## 2012 WINNERS (NANOTECHNOLOGY)

**BENJAMIN JOYCE**, City College  
Graphene's Unique Properties and Role in Nanotechnology

**MARYAM SAQIB**, City College  
Gold nanoparticles



The Urban University Conference Series, now in its fifteenth year is an event hosted by the NYC Louis Stokes Alliance. The UU Conference Series is the signature event of the NYC Alliance, promoting undergraduate research and bringing together faculty and students from New York City and the tri state area. The LSAMP has worked collaboratively with CUNY Alliance member campuses, the NY Section of the American Chemical Society (ACS), the American Society for Engineering Education (ASEE), the SUNY based Alliance at Stony Brook, Brookhaven National Labs, and Einsteins in the City conference in hosting the event. The inception of the Bridge to the Doctorate Initiative in LSAMP presented the Alliance with the opportunity to develop a component of the UU Series specifically for our graduate scholars, and in doing so Transitions' is now the second signature event of the UU series focused at the High School level.

Each UU conference event includes poster sessions by Student Research Scholars, Summer Opportunities and International Research workshops, Laboratory Tours, Panels on the Science and Research Opportunities at Federal Labs, and a Graduate Education/Technology Expo with exhibitors from Academic, Industry and Agency settings.

# NANOTECHNOLOGY



# ENGINEERING

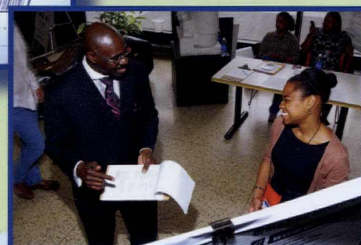
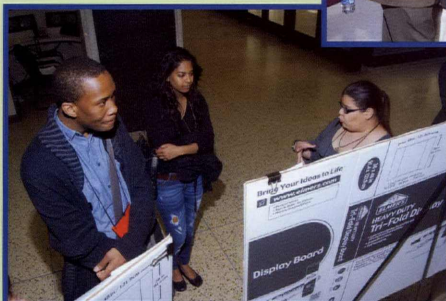
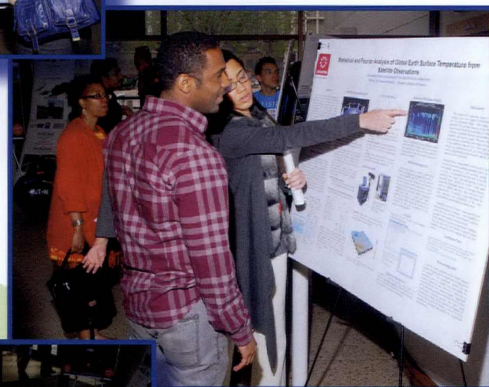
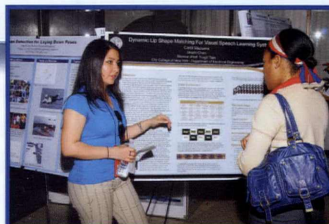
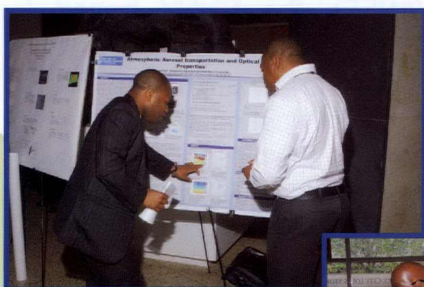
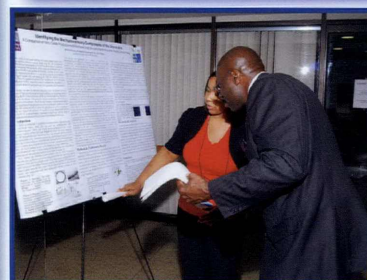


## 2012 WINNERS (ENGINEERING)

**ANTONIO AGUIRRE**, New York College of Technology  
Validation Of Two Algorithms Used In Retrievals Of Optical And Size Parameters Of Aerosols Utilizing A Multi-Filter Rotating Shadowband Radiometer And Inter-Comparison With A Cimel Sun Photometer

**DINELY COLON**, City College  
Bone Strength in TLR Receptor Deficient Mice

**CHAELE NICHOLSON**, Borough of Manhattan CC  
Alternative Sources of 5GHz and 15GHz Emission in Active Galactic Nuclei





## 2012 WINNERS (BIOLOGY)

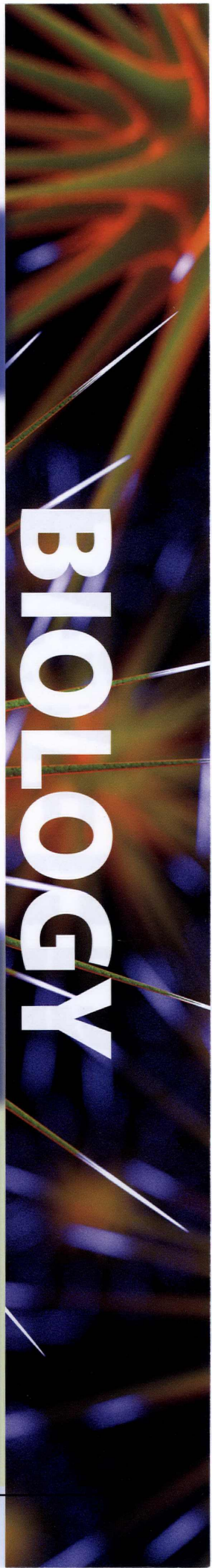
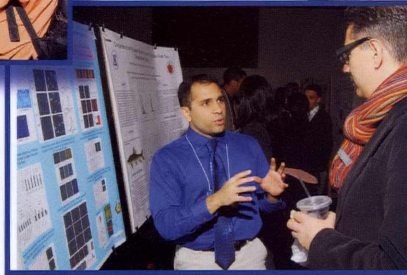
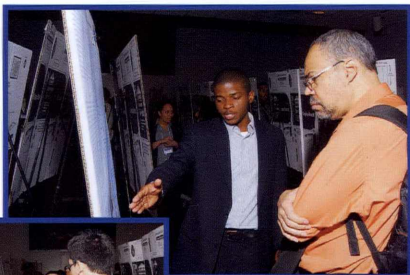
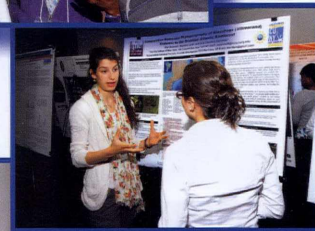
**EURI PARIOS**, Borough of Manhattan CC  
Photochemical Inactivation Of Human Colon Cancer Cells  
With Hydrophilic Phenothiazine Dyes

**BARBARA RIZZO**, City College  
Modeling The Climatic Envelope Of The Amphibian Fungus  
Batrachochytrium Dendrobatidis In The Brazilian Atlantic  
Forest

**ZOE SPANOS**, City College  
Comparative Phylogeography Of Glassfrogs (*Vitreorana*)  
Endemic To The Brazilian Atlantic Rainforest

**PHOEBE ARRIEGADO**, College of Staten Island  
Expression Of The Pseudophosphorylated Tau In  
*Drosophila Melanogaster*

**MICHAEL RAGHUNATH**, College of Staten Island  
Atp8a1 Deficiency Is Associated With Phosphatidylserine  
Externalization In Hippocampus





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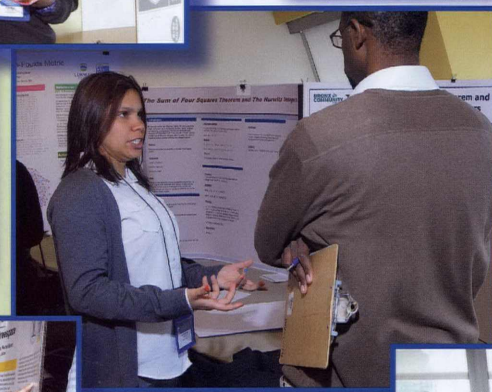
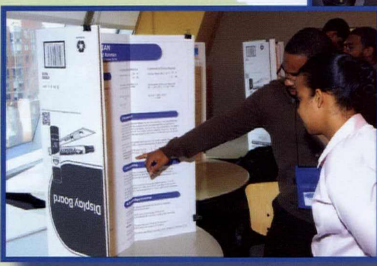
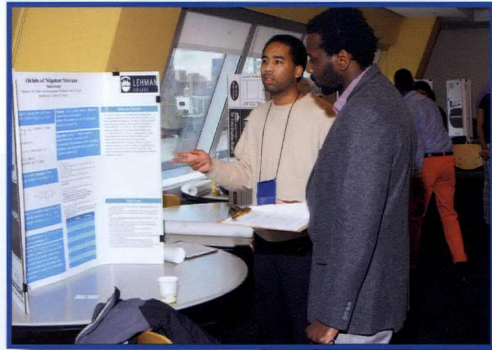
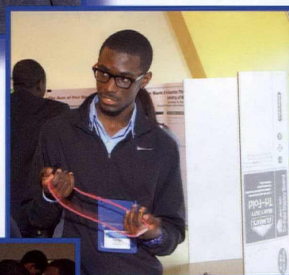
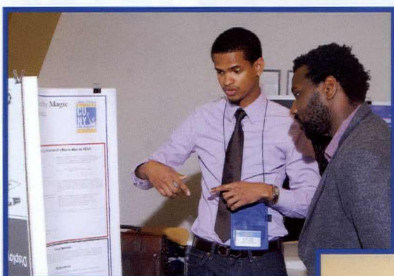
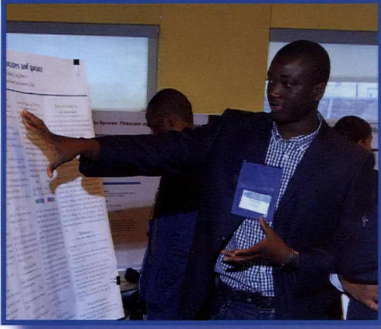


## 2012 WINNERS (MATHEMATICS)

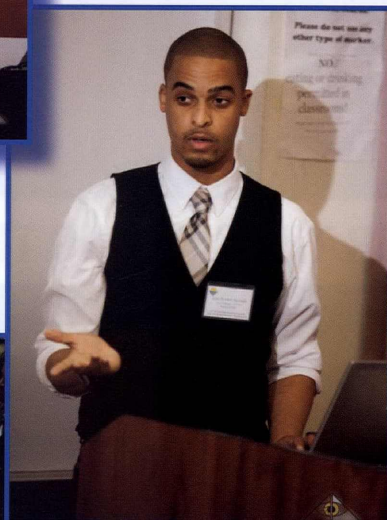
**RENFORD ALEXANDER**, Medgar Evers  
 Continued Fractions And Rational Tangles

**CARLO FERVIL**, Borough of Manhattan CC  
 The Cayley Graph Of A Group

**MICHAEL SMITH**, Medgar Evers  
 An Exploration Of Integer Partitions And Tableaux





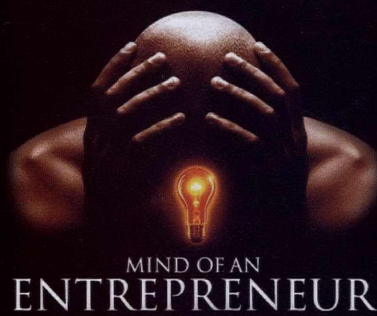


THE NEW YORK CHEMISTRY STUDENTS' ASSOCIATION  
60TH ANNUAL UNDERGRADUATE RESEARCH SYMPOSIUM  
SUNY COLLEGE AT OLD WESTBURY  
MAY 5, 2012

N(CH)  
NH  
**CHEMISTRY**



COMPETE IN THE  
**3<sup>rd</sup> ANNUAL**  
ENTREPRENEURIAL  
**CONCEPT**  
COMPETITION



**\$4,000 FOR THE WINNING TEAM!!!**

**DECEMBER 8, 2012**

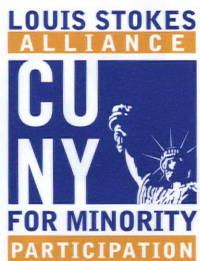
**COMPETITION ELIGIBILITY:**

- Must be a Current CUNY Student (Maximum of 3 CUNY Students per team)
- Must not have Competed in any Other CUNY Business Plan Competition
- Must Complete Online Registration for Competition at <http://ProjectSTEM.net>
- Must have an Original Idea/Concept or Improvement on Existing Idea/Concept

*All Majors Encouraged to Compete / Profit and Non-Profit Ventures Welcome*

**[www.cunyecc.org](http://www.cunyecc.org)**

FOR ADDITIONAL INFORMATION: Contact TROY URQUHART (*Competition Coordinator*)  
Marshak – MR14 • (212-650-8854 / [ecc2@ccny.cuny.edu](mailto:ecc2@ccny.cuny.edu))



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