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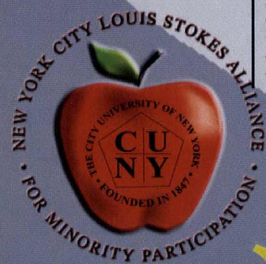
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new york city alliance NEWS

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Instrument of the Integrated University-The LSAMP Steering Committee

From its inception in 1992, the CUNY Louis Stokes Alliance Steering Committee consisting of Deans, Provosts and Vice Presidents from each of the CUNY partner colleges meet at least eight times each year with the Project Directors to establish policy, and provide leadership and guidance of the New York City Louis Stokes Alliance. The LSAMP Steering Committee has promoted the spirit of collaboration and partnership across campuses, and was instrumental in charting the course for rapid institutionalization of Alliance activities in the transitions to Phase II and Phase III of the New York City Louis Stokes Alliance.

As presidential appointees at Alliance member campuses, LSAMP Steering Committee members supervise and direct the Alliance program activities at their respective campuses. They provide executive direction to implement the LSAMP Campus model, and LSAMP initiatives. The Alliance Steering Committee member is instrumental in ensuring that the critical elements of program institutionalization, the atmospherics of a systemic approach to STEM education, and the concept of an integrated university are maintained.

We are now challenged to develop a strategy that is responsive to changes in the STEM landscape across the university, in academia in general, as well as in industry. It is a challenge we can meet head-on because of a diverse LSAMP Steering Committee representing distinctly different colleges, twelve years of firmly entrenched LSAMP activities at member campuses and the continued diligent and dedicated work of the LSAMP Steering Committee.

Founding members still actively involved in the New York City Louis Stokes Alliance include: Vice-President Sadie Bragg (BMCC), Vice-President Doris Withers (MEC), Dr. Charles Watkins (Former Dean of City College School of Engineering), and President Russell K. Hotzler (NYC College of Technology).

AMP FACTS

- From 1992 to 2004, baccalaureate degrees in STEM were awarded to 8,150 underrepresented minority students at CUNY.
- From inception, over 340 LSAMP Scholars have earned BA or BS degrees in CUNY.
- For the academic year 2003-2004, CUNY enrolled 20,099 students in institutionalized or restructured STEM courses
- The LSAMP CUNY Summer Research component drew participation from 54 LSAMP Scholars.
- 25 non-CUNY sites served as hosts for 46 LSAMP Scholars in Summer 2004

NSF/DOE collaboration at BNL

FaST program at Brookhaven proves to be win-win

by Laura Mgrdichian, BNL

The participants in the 2004 Faculty and Student Teams (FaST) program at the Department of Energy's (DOE) Brookhaven National Laboratory (BNL) unanimously applauded its success at the program's concluding poster session and ceremony on Aug 11-12. They declared the program, sponsored by DOE's office of Science and the National Science Foundation (NSF) a win-win situation for all involved.



For 10 weeks in the summer, FaST unites a BNL scientist with two students and a faculty member from a university or college with limited research capabilities and funding. This year, BNL's Office of Educational Programs hosted five faculty-student teams.

The researchers also work with the faculty members to develop collaborative proposals to support joint research. The intent, according to Noel Blackburn, FaST program administrator at BNL, is "to expand the research capacity at the university and establish a durable collaboration between the university and Brookhaven Lab." Several proposals are being developed for submission to DOE, NSF, and other Federal agencies.

"Funding from other programs usually goes to major universities, but this DOE/NSF program helps people who really need it. That is so important. It's a great thing for the national laboratories to take part in this," said Myron Strongin, BNL-Physics, who hosted a team from North Carolina Agricultural and Technical State University. His team--faculty member Abebe Kebde and students Tanina Bradley and Christopher Jessamy--investigated the molecular electrical properties of gold-germanium thin films.

"These students need all the support they can get from the scientific community," agreed Kebede. "They are the ones who will help lead the future of science in the U.S."

The other teams also had rewarding research experiences. Faculty member Reginald Blake and students Rafael Pena and Akini Bando of the City University of New York (CUNY) New York City College of Technology studied how mercury is deposited from a coal-fired power plant in Illinois, under the guidance of researcher Terence Sullivan, BNL - Environmental Sciences. Students

Neel Khanna and Andre Grange and faculty member Mark Kobrak of CUNY Brooklyn College worked with James Wishart, BNL-Chemistry, studying anion-based ionic liquids and their properties. "This is a great way to establish relationships between BNL staff and school faculty in a way that meets both our needs," Wishart said.

Faculty member Jyh-Cheng Liu and students Matthew Weber and Thomas Hronopoulos from New Jersey City University worked with Carmen Benkovitz, BNL-Environmental Sciences, to develop a software program to analyze environmental data. "It was an eye-opener to be in a real-world research situation," Weber said. Peter Siddons, BNL-National Synchrotron Light Source, and faculty member Elhag Shaban and students Clifford Williams and Shayla Wilkinson from Southern University in Louisiana explored the potential of new electron multiplier structures for synchrotron x-ray detector systems. "For me, this program was a lifesaver. Having the manpower gave the project a start," Siddons said.

Each faculty member said they would like to maintain the relationship with the laboratory and looked forward to bringing what they had learned back to their home institutions. The BNL researchers said they hoped to sustain the new collaborations under FaST or other funding being sought with newly written joint proposals.

A. James Hicks Program Director

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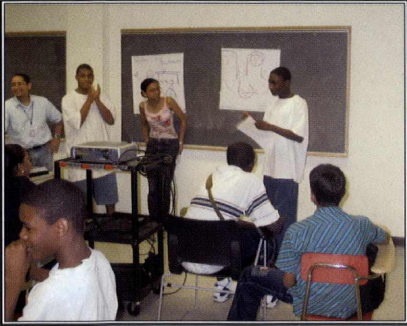
Individuals wishing to be added to the mailing list should contact Jeanette Schnabel at (212) 650-8854, fax (212) 650-8855.

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

Pre-College Summer Programs at CUNY

STEM

STEM is an academic enrichment program to encourage talented Latinos, females and other underrepresented minority and disadvantaged high school students currently enrolled in the 10th and 11th grades to pursue careers in the fields of engineering, computer science, science, and mathematics. The STEM Program is supported in part by a grant from NASA and is a collaborative initiative between the College NOW Program and the Biomedical Engineering Program at The City College of New York, the New York City Department of Education, and the Center for the Advancement of Hispanics in Science and Engineering Education (CAHSEE). STEM has sites in Washington, D.C. New York City, Chicago and Los Angeles. STEM was initiated in 1992 to with NASA and CASHEE support to ensure that Hispanic Americans, females, and other underrepresented minority students, achieve academic excellence through continuous programmatic support throughout their pre-college, undergraduate and graduate years. STEM prepares students for the greater demands of college-level study and helps them adjust to campus life. For more information on the STEM program, contact Mr. Otto Marte at 212-650-6190.



Proyecto Access

Now in its seventh year of operation, the Hostos Community College based NASA/STEP **Proyecto Access** Program continues to be a rigorous, engaging and challenging pre-college and pre-engineering program. It is designed to develop the inquiry and problem solving skills of high-achieving low-income students, with an interest in the engineering and science professions. The academic components of the program includes Logic and Its Applications to Mathematics, Introduction to Engineering, Introduction to Computer Science, Problem Solving Seminars, Pre-Calculus, Introduction to Physics, Probability, Statistics, and Technical Writing. Other activities included SAT preparation classes; personal, career, and academic counseling; field trips to museums; tours to local colleges; and lectures on engineering and science opportunities.

NASA/STEP Proyecto Access Program 2004:

- Σ• 244 students applied for admission and 211 were accepted
- Σ• 164 started the program and 139 completed the program
- Σ• NYPREP students came from 49 public schools and 16 private schools
- Σ• 100% of the students who completed the program were students from minority groups traditionally underrepresented in the engineering and science professions
- Σ• 59% of the graduating students were women
- Σ• Over 90% of the students were classified as low income according to New York School Lunch Program Guidelines

For more information on NASA/STEP Proyecto Access, contact Mr. Edison Taeno at 718-518-6773.

In Their Own Words...

The Annual Biomedical Research conference for Minority Students reinforced my passion for the sciences and made my dreams seem more realistic

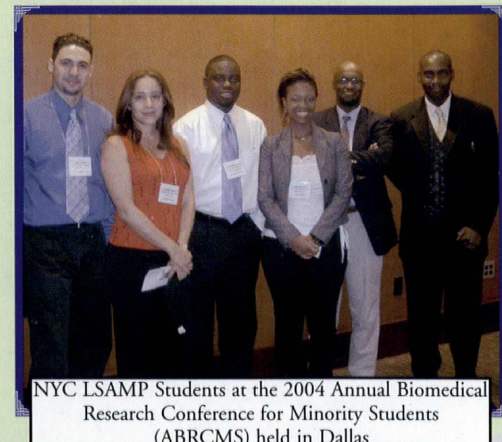
Joel Urena (BMCC)

Attending the Houston LSAMP conference allowed me to realize the magnitude and impact of the LSAMP establishment.

Carl McGowan (CCNY)

I came away truly inspired, with specific direction and a sense of confirmation that with hard work I can indeed be successful.

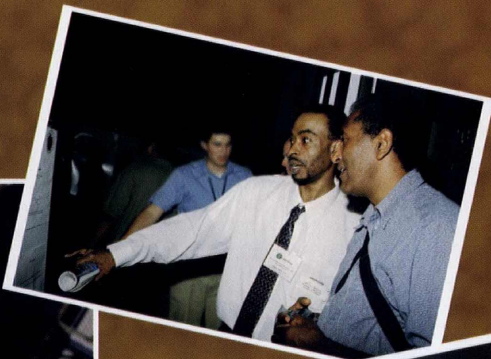
JoAnn Caban (Lehman)



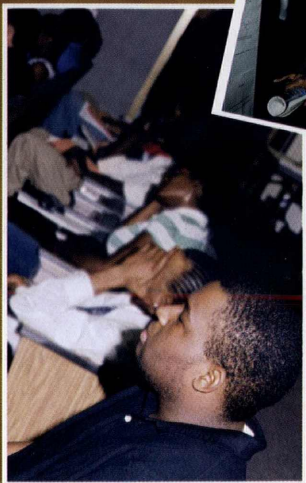


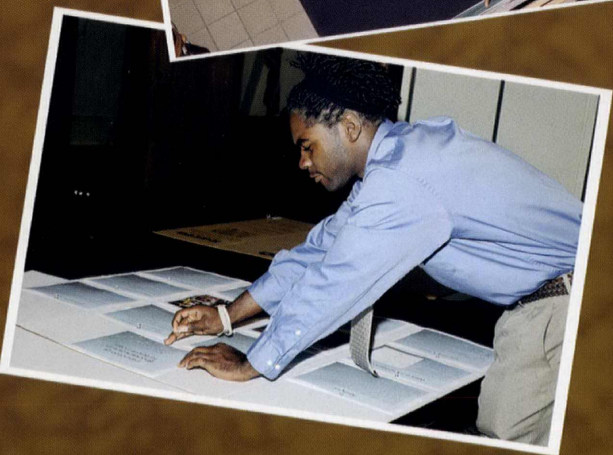
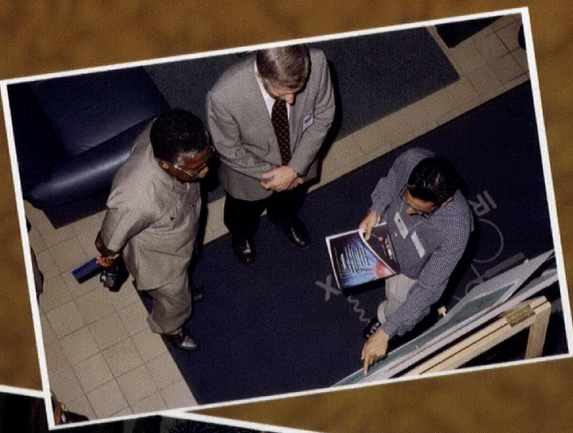
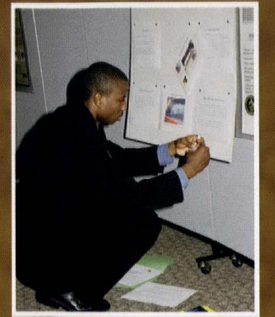
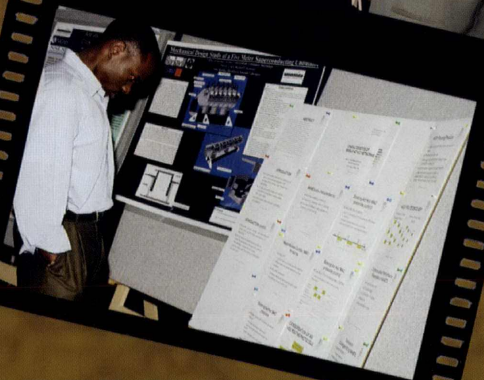
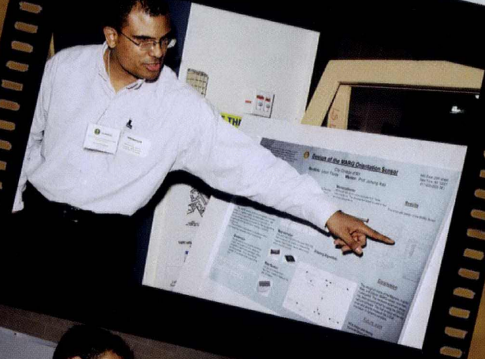
Summer 2005

The LSAMP Summer Conference was held in collaboration with the Department of Energy (DOE) - Brookhaven National Labs Office of Educational Programs, CUNY NIH Funded programs, NASA NYC Research Alliance and the CUNY Summer Transportation Institute.



The LSAMP summer program drew participation from undergraduate, graduate and Bridge to the Doctorate Scholars.





Pre-College Summer Programs at CUNY

STI

The Institute for Transportation Systems (ITS) - **Summer Transportation Institute (STI)** hosted at The City College of The City University of New York, completed its ninth year in 2004. The STI continues to bridge the gap between supply and demand by creating awareness and stimulating interest in high school students (grades 9 through 12) to take maximum advantage of the opportunities that exist in the Transportation Industry.

STI Highlights-2004:



- Dr. Isaac Kwame Takyi delivered the Keynote Address, at the Closing Ceremony. Dr. Takyi is a Senior Director of Technology and Information Services at the Metropolitan Transportation Authority, New York City Transit.
- Mr. Joel Dreyfuss, a senior writer at Bloomberg Markets and a 1971 graduate of The City College delivered remarks during the Closing Ceremony.
- TRAC PAC II software (SIMCity, Bridge Builder, Construction, and the Environmental Modules) purchased from the American Association of State Highway and Transportation Officials (AASHTO) was introduced to the 2004 students.

- STI Students and Staff visited the NYC Office of Emergency Management, Emergency Operations Center. This is the first time that the program was granted clearance to visit this facility.
- STI Research Interns participated in the NYC LSAMP Summer 2004 Poster Session held at the Brookhaven National Laboratory in Upton, New York.

For more information, contact Ms. Alma Jefferson at the CUNY Institute for Transportation Systems at 212-650-8057.

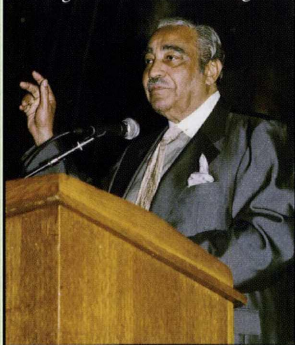
Around CUNY

CONGRESSMAN RANGEL ADDRESSES NATIONAL NOAA EDUCATIONAL PARTNERSHIP FORUM AT CUNY

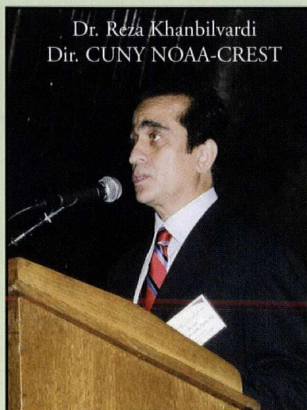
October 21-23, 2004

NOAA's Educational Partnership Program is designed to provide financial assistance to minority serving institutions to support collaborative research and training of students in NOAA-related sciences through competitive processes.

Congressman Charlie Rangel



Dr. Reza Khanbilyardi
Dir. CUNY NOAA-CREST



Around CUNY

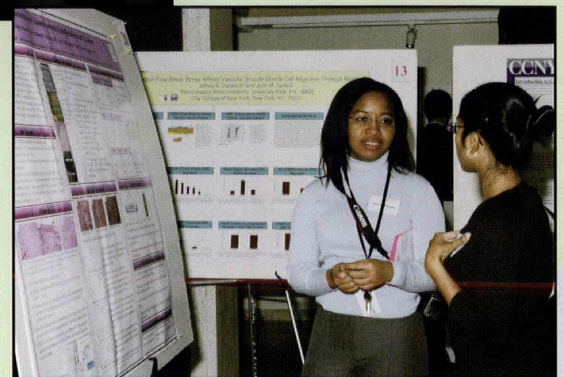
DEPARTMENT OF BIOMEDICAL ENGINEERING OPENS AT THE CITY COLLEGE

November 5, 2004



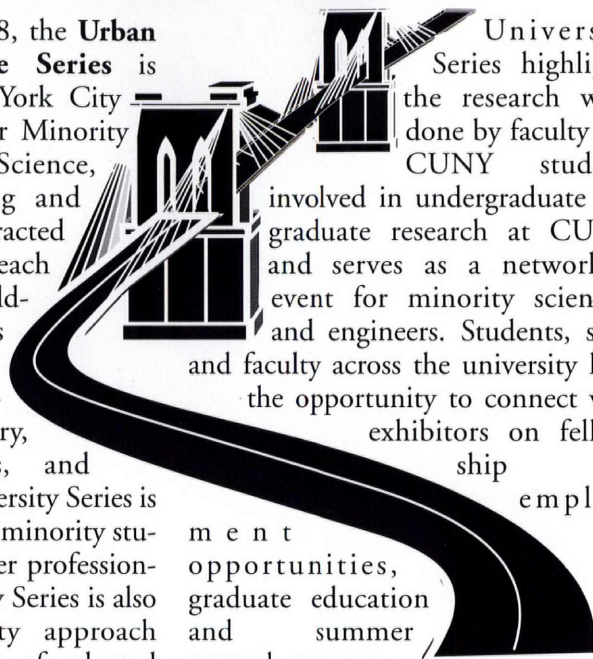
Inauguration of new facilities culminates a ten year effort to develop degree-granting programs at BS, MS and Ph.D. levels.

The New Biomedical Engineering Department aims to serve as a resource for New York's Medical and Biotech communities.



The Eighth Annual Urban University Conference

Held annually since 1998, the **Urban University Conference Series** is organized by the New York City Louis Stokes Alliance for Minority Participation in Science, Technology, Engineering and Mathematics and has attracted over 500 participants each year since 1999. By building on existing strategies and successes of the past, and initiating new relationships between, industry, academia, foundations, and agencies, the Urban University Series is a forum for stakeholders, minority students, scientists, and other professionals. The Urban University Series is also an integrated university approach towards the recruitment of talented students to the university at the high school level, baccalaureate level, and the graduate level. The Urban



University Series highlights the research work done by faculty and CUNY students involved in undergraduate and graduate research at CUNY, and serves as a networking event for minority scientists and engineers. Students, staff, and faculty across the university have the opportunity to connect with exhibitors on fellowship and employment opportunities, graduate education and summer research programs.

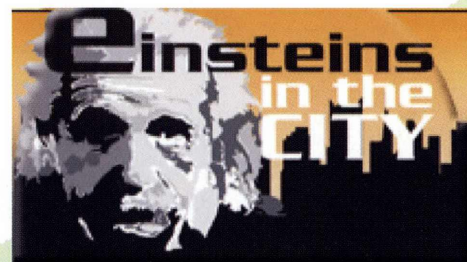
The Eighth Annual Urban University Conference Series will

consist of three major events in 2005. **'A Gathering of Science Scholars'** and the **'Einsteins in the City'** conferences, scheduled to be held at SUNY Stony Brook March 10-11, 2005 and the City College April 10-11, 2005, respectively, are events being held in collaboration with the **Urban University Conference Series**. The **third** component of the Urban University Series - **'Transitions 2005'** will be held at the City College April 15-16, 2005, and is an event exclusively for the NSF sponsored Louis Stokes Alliance Bridge to the Doctorate Scholars.

For more information on **'Transitions 2005'** contact the NYC Louis Stokes Alliance at 212-650-8850 or ampcc@cunyvm.cuny.edu.

In commemoration of the 100 years of the Einstein Papers and to celebrate the role that The City College of New York played in Einstein's travel to the U.S., a Student Research Conference will be held at the City College of New York on April 11-12, 2005. Special guests at this conference will include distinguished City College alumni, including Nobel Laureates Drs. Julius Axelrod, Kenneth Arrow, Herbert Hauptman, Jerome Karle, Arthur Kronberg, Leon Lederman, and Arno Penzias.

We request abstract submissions for a poster presentation of original research results in the areas of behavioral science, computer science, economics, engineering, mathematics, and the sciences. The authors must be students enrolled in an academic institution pursuing a degree at the Bachelor's or Master's level. A full-length paper based on this research must be submitted at the conference; these papers will be reviewed and published as part of the Conference Proceedings. Over \$5,000 in prizes will be awarded



to the best posters.

For further information and registration see <http://www.einsteinexpo.com> or contact Dr. Laurent Mars (EinsteinExpo@ccny.cuny.edu).



The Center for Inclusive Education at Stony Brook University is proud to announce the second annual Gathering of Science Scholars National Conference: Access for Underrepresented Students in the Biological, Engineering, and Physical Sciences on March 10-11, 2005. This conference celebrates the achievements

of underrepresented students in science and is an opportunity to engage in discovery and dialogue about access, inclusion, and excellence in academia. We invite undergraduate students, graduate students, postdocs, faculty, and diversity program staff at institutions throughout the United States and Puerto Rico to participate in this exciting event. Institutions may register to participate in the networking session to recruit prospective applicants. Candidates

interested in graduate study at Stony Brook should use this opportunity to set-up campus visits or admissions interviews. Key conference components include a series of excellent workshops and panel discussions, regional research symposium, networking sessions and inspirational keynote speakers. For more information and registration see <http://www.stonybrook.edu/agep/gathering.html> or contact Nina.Maung@stonybrook.edu.

upcoming conferences...

January 27-30, 2005

FGLSAMP EXPO 2005

Orlando, Florida

www.fglsamp.com/expo

February 25, 2005

8th Annual CUNY Conference in Science & Engineering

Graduate Center, CUNY

Email to: oeodpmail@gc.cuny.edu

March 10-11, 2005

"A Gathering of Science Scholars"

Stony Brook University

www.stonybrook.edu/agep/gathering

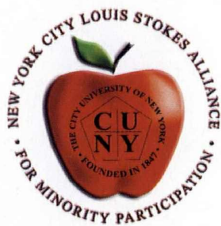
April 11-12, 2005

Einsteins in the City

A Student Research Conference

City College of New York

www.EinsteinExpo@ccny.cuny.edu



New York City Louis Stokes Alliance

The City College of New York

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