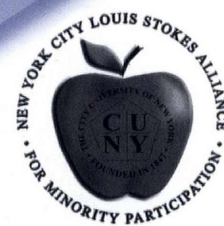




2003 ANNUAL REPORT



New York City Louis Stokes Alliance

*For Minority Participation
in Science, Technology, Engineering and Mathematics*

NATIONAL SCIENCE FOUNDATION LOUIS STOKES ALLIANCE FOR MINORITY PARTICIPATION

PROGRAM DIRECTOR

A. James Hicks
Program Director

CUNY CENTRAL ADMINISTRATION

Matthew Goldstein	Chancellor
Louise Mirrer	Vice Chancellor for Academic Affairs

PROJECT DIRECTORS

Neville Parker	City
Louise Squitieri	City
Leon Johnson	Medgar Evers

PROJECT ADMINISTRATOR

Claude Brathwaite City

SENIOR ADMINISTRATIVE ASSISTANT

Jeanette Schnabel City

ADMINISTRATIVE ASSISTANT

Maria Colabella City

TABLE OF CONTENTS

A MESSAGE FROM THE CHANCELLOR PAGE 3

A MESSAGE FROM THE PROJECT DIRECTOR PAGE 4

SUMMER PROGRAM 2003 PAGE 5

STEM DEGREES AND ENROLLMENT PAGE 6

2002 MINORITY GRADUATES BY FIELD PAGE 7

6TH ANNUAL URBAN UNIVERSITY CONFERENCE SERIES PAGES 8-9

AT THE GRADUATE LEVEL PAGE 10

MENTORING PAGE 11

OVERVIEW 1992-2003 PAGE 12

STEERING COMMITTEE

Joe Barba	City
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Carlos Molina	Hostos
Dennis Slavin	Baruch
William Tramontano	Lehman
Ann Henderson	Hunter
Marcia Caton	LaGuardia
Arthur Corradetti	Queensborough CC
Marcia Keizs	Bronx
Paul Sheldon	Brooklyn
Thomas Strekas	Queens
Cheryl Smith	York
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Joseph Rosen	NYC College of Tech.
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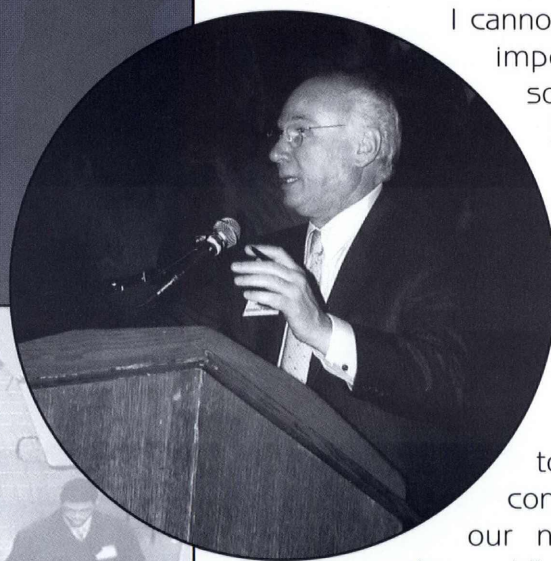
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Editor: Claude Brathwaite
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Chancellor Matthew Goldstein, City University of New York

A frequent focus of attention is the diversity that is one of the essential cornerstones of the CUNY experience. The University nurtures this diversity by supporting programs that extend minority involvement, particularly in disciplines and professions where minorities are under-represented.

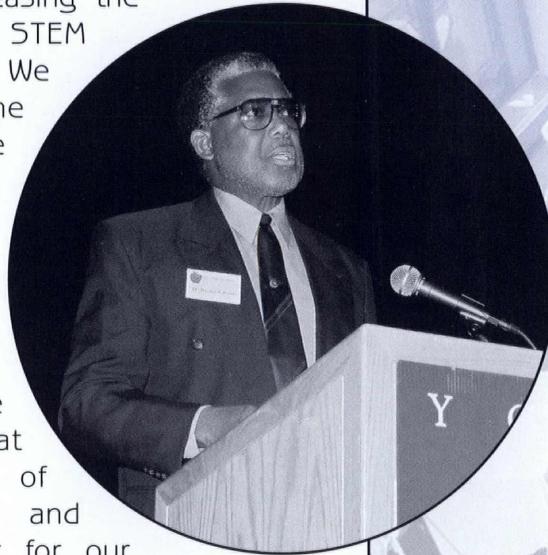


I cannot over-emphasize the importance of helping society as a whole to become more scientifically literate. As we seek to grasp the ever-changing meaning of the phrase "global economy," the experiences these students bring to the table will contribute invaluable to our nation's welfare—and the world's. The City University is committed to ensuring that the pathways to the four targeted disciplines remain open, with the help of programs like the Alliance for Minority Participation.

DURING THE 2002-2003 ACADEMIC YEAR:
204 LSAMP research scholarships were offered
via CUNY institutional support.

Dr. Neville Parker Project Director

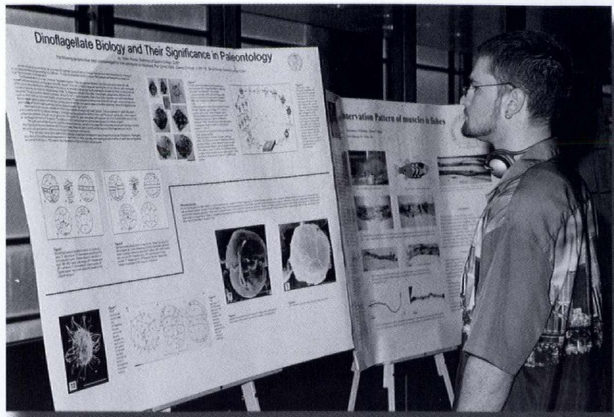
Campus ownership has been one of the central tenants of what we have been trying to create over the last ten years. I wish to state that the New York City LSAMP is in a positive position to continue to contribute to increasing the production of STEM graduates in CUNY. We call upon the University-wide community to join with us. It is very, very important that resources be secured, but it is just as important to create the atmospheric, that pliable climate of academic, social and economic support for our students. A climate that would encourage, a climate that is nurturing, a climate in which the students feel that coming to CUNY is an opportunity and a privilege, one that would see them through the hard times.



LSAMP Program Activities Include:

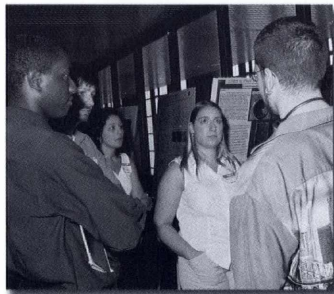
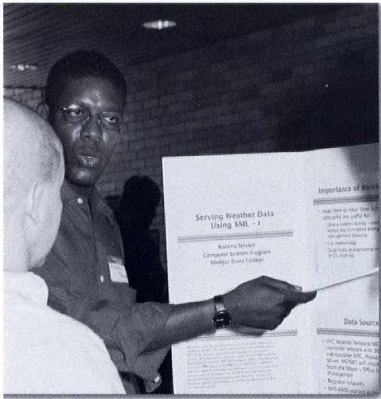
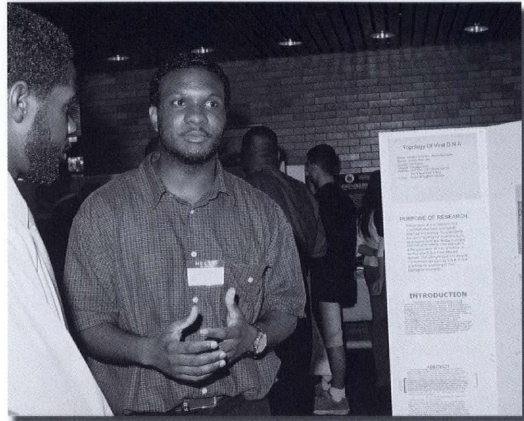
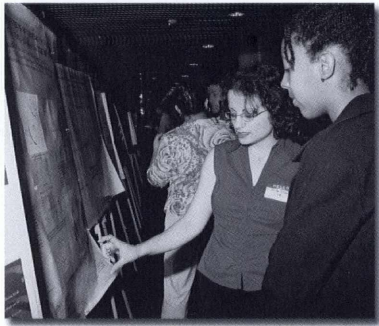
- Collaborative Learning Approach
- Restructured Gatekeeper Courses
- Curriculum Coordination and Articulation
- Faculty Research Initiation and Articulation Program
- Research Assistantships and Teaching Opportunities
- Undergraduate and Graduate Research Fellowships
- Peer and Faculty Mentoring
- Science and Engineering Learning Centers
- The Urban University Series Conference
- NASA Collaborations
- Brookhaven National Labs Collaborations

SUMMER PROGRAM



In the end, the summer research program was time well spent. It was a great opportunity to immerse myself in the scientific community and do some networking. It was my first research project, allowing me to see if I really did want to do this sort of thing for a living some day. It was a stepping stone on my path to a Ph.D. And most importantly, it is something I realized I want to continue doing.

~ Vadim Acosta, Queens College

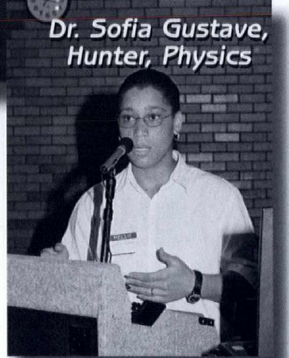
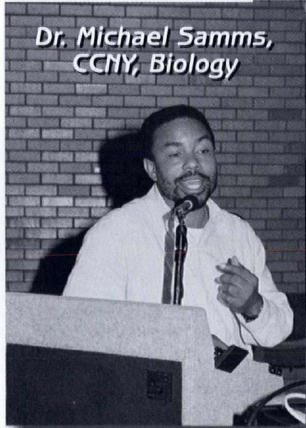
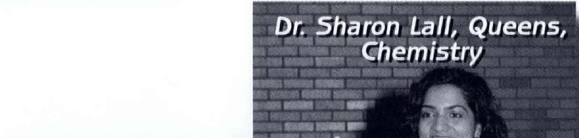


Fifty LSAMP Scholars participated in the LSAMP Summer 2003 Research Program

NASA Sharp participants from the NY State Research Initiative



Over twenty five sites served as hosts for fifty-seven Alliance Scholars in Summer 2003



Doctoral degree recipients addressing Summer Poster Session attendees

STEM DEGREES	91-92	92-93	93-94	94-95	95-96	96-97
Baseline* Minority(BA/BS)	284	351	393	442	379	437
Expansion** Minority(BA/BS)	404	488	514	575	549	612
Baseline* Non-Minority(BA/BS)	442	461	536	443	509	510
Expansion** Non-Minority(BA/BS)	775	821	863	803	884	959
Community College (AS)	110	98	156	96	176	186

STEM DEGREES	97-98	98-99	99-00	00-01	01-02	02-03
Baseline* Minority(BA/BS)	457	465	448	508	502	593
Expansion** Minority(BA/BS)	616	646	688	755	761	852
Baseline* Non-Minority(BA/BS)	515	509	520	622	573	565
Expansion** Non-Minority(BA/BS)	933	998	1128	1145	1276	1265
Community College (AS)	195	181	178	148	154	201

STEM ENROLLMENT	Fall '92	Fall '93	Fall '94	Fall '95	Fall '96	Fall '97
Minority Enrollment	4216	4905	5335	5788	6290	6391
Non-Minority Enrollment	3195	3357	3714	3612	3579	3588

STEM ENROLLMENT	Fall '98	Fall '99	Fall '00	Fall '01	Fall '02	Fall '03
Minority Enrollment	6619	6807	6584	6976	6963	7669
Non-Minority Enrollment	4019	3998	4731	8121	7702	7480

* Baseline: Brooklyn, City, Hunter, Lehman, Medgar Evers, and New York City Technical Colleges

** Expansion: Six Baseline Campuses; Baruch, Staten Island, Queens, and York Colleges.

INCREASES IN CUNY MINORITY STEM DATA

STEM DEGREES	92-93	93-94	94-95	95-96	96-97	97-98	98-99
Baseline* BA/BS Degrees	23.6%	38.4%	55.6%	33.5%	53.9%	60.9%	63.7%
Expansion** BA/BS Degrees	20.8%	27.2%	42.3%	35.9%	45.8%	52.5%	59.9%
Community College AS Degrees	-10.9%	41.8%	-12.7%	60.0%	61.2%	77.3%	64.5%

STEM DEGREES	99-00	00-01	01-02	02-03
Baseline* BA/BS Degrees	57.7 %	77.8%	76.8%	108.8%
Expansion** BA/BS Degrees	70.3 %	86.8%	88.4%	110.9%
Community College AS Degrees	61.8 %	34.5%	40.0%	82.7%

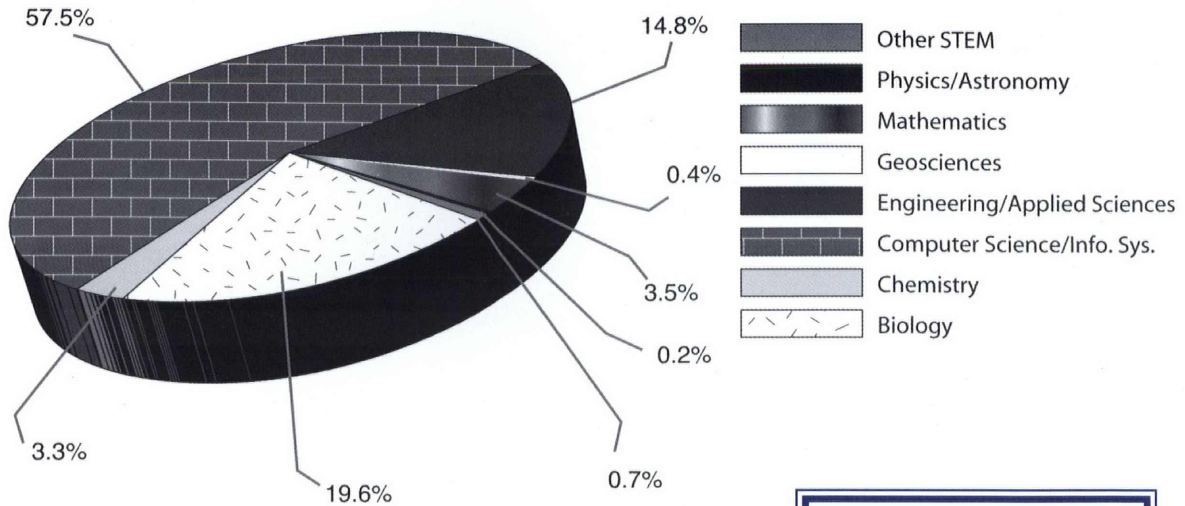
* Baseline: Brooklyn, City, Hunter, Lehman, Medgar Evers, and New York City Technical Colleges

** Expansion: Six Baseline Campuses; Baruch, Staten Island, Queens and York Colleges

DURING THE 2002-2003
 ACADEMIC YEAR:
 CUNY enrolled 18,858
 students in NYC LSAMP
 institutionalized or
 restructured courses.

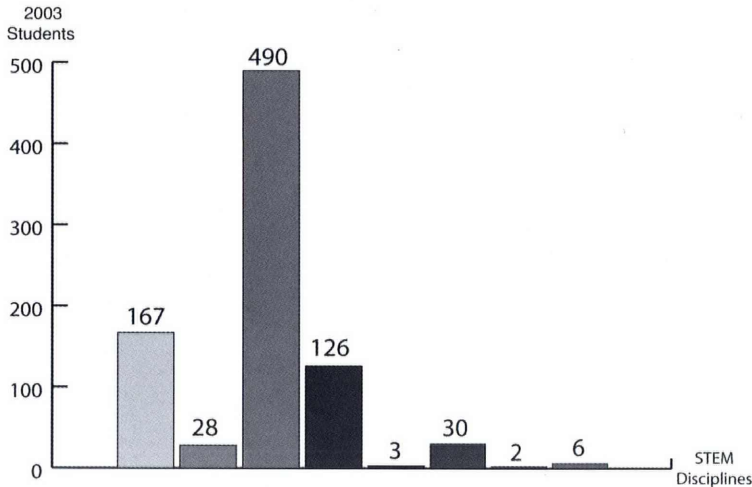
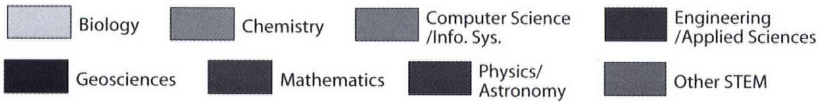
CUNY Underrepresented minority BA/BS Degrees 2003

2003



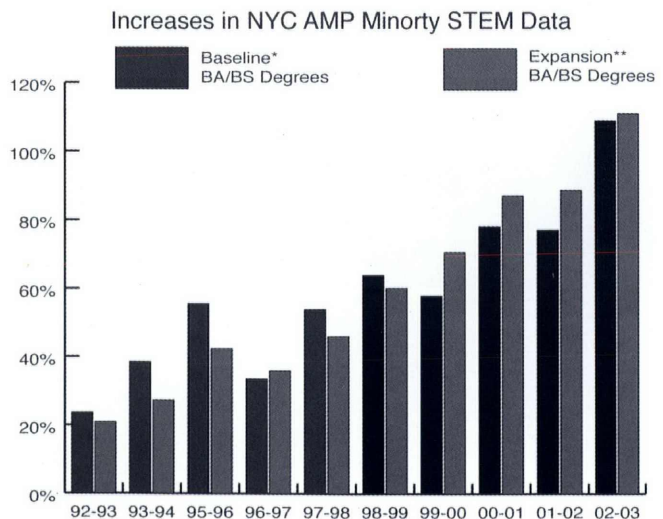
Eight LSAMP Carver Scholars graduated with BS degrees

CUNY Underrepresented minority BA/BS Degrees 2003



Forty three BS degrees were awarded to LSAMP Scholars

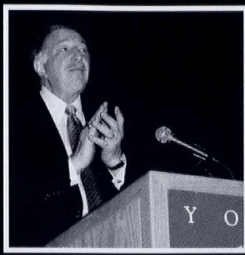
CUNY MINORITY GRADUATION AND ENROLLMENT 1992-2003



* Baseline: Brooklyn, City, Hunter, Lehman, Medgar Evers, and New York City Technical Colleges
 ** Expansion: Six Baseline Campuses; Baruch, Staten Island, Queens, and York Colleges

MINORITY GRADUATES

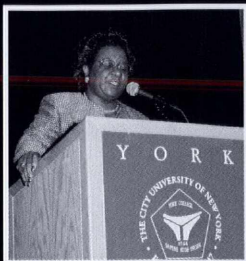
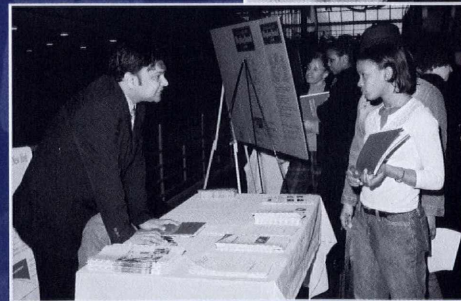
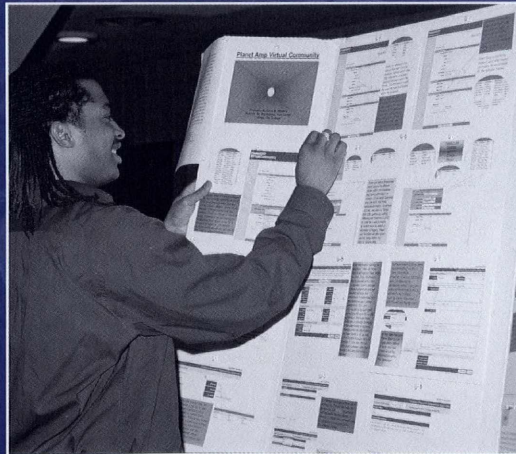
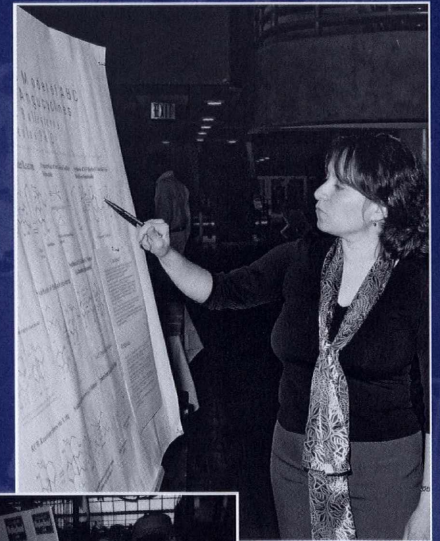
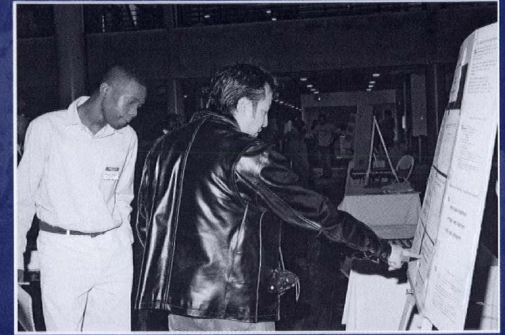
BY FIELD



President Russell K. Hotzler

Interim President, York college

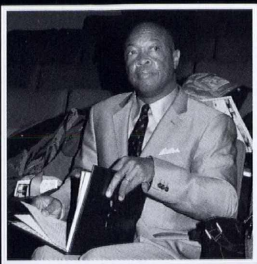
This started as an experiment for the City University. The university had never before put together a project that involved collaborations on a scale of this magnitude. Starting from simple objectives such as restructuring gatekeeper courses in calculus and chemistry, to establishing learning centers and building a foundation.



Dr. Cheryl Smith

Vice-President, York college

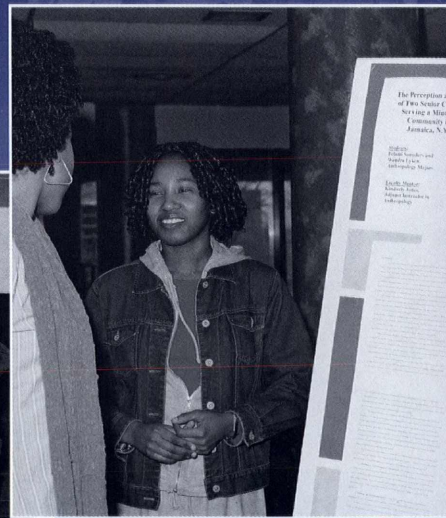
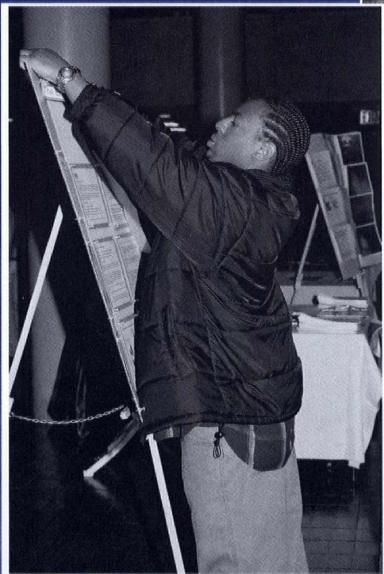
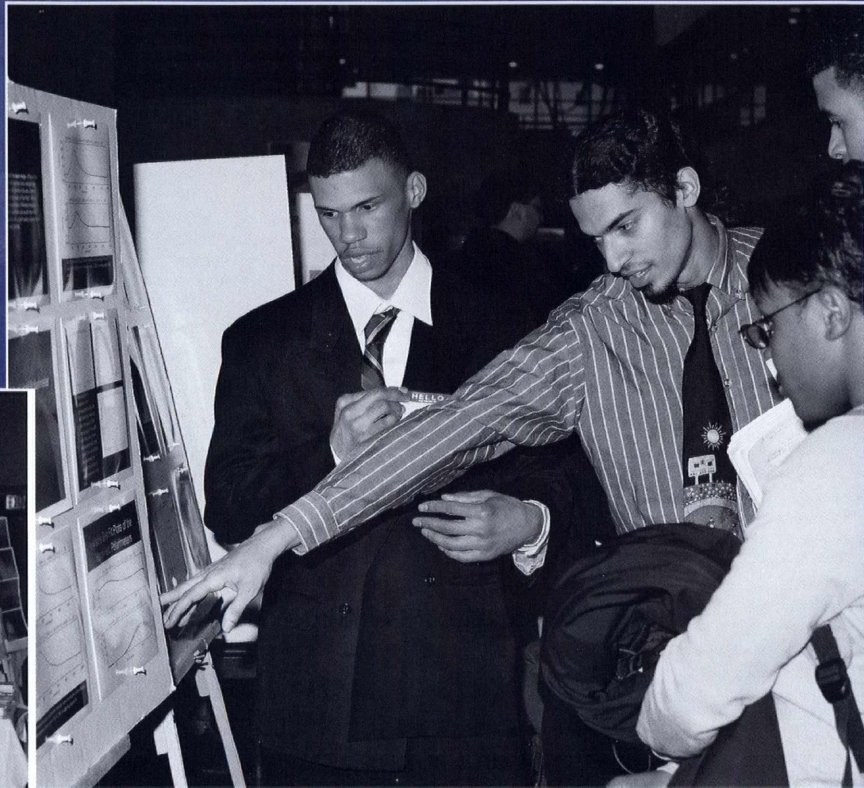
Our LSAMP Scholars are enrolled in Ph.D. programs, some have entered the workforce at Brookhaven National Labs, the New York City public school system, others are attending medical school, or enrolled in Masters and Doctoral programs in the university.

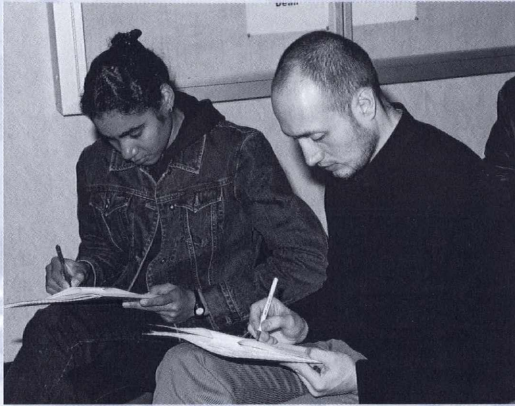


Dr. John Ruffin

Director, National Center for Minority Health and Health Disparities

The variation in health status among different population and the fact that some racial and ethnic populations are more burdened by disease than others is what we refer to when we talk about health disparities. We mean that there are certain groups sicker, certain groups who die disproportionately when compared to other groups and the big question is why is this the case. Many of you live the reality of health disparities and don't even know it.





**NYC LSAMP Queens College Graduates
2000-2002 enrolled in Doctoral Programs**

AMP Scholar	STEM Discipline	Graduate Degree Program	College/University
Heidi Zapatha	Biology	MD/Ph.D.	Syracuse University
Jacklyn Creque	Biology	Ph.D.	Cornell University
Marie Thomas	Chemistry	Ph.D.	GSUC of CUNY
Mark Chua	Biology	Ph.D.	Mount Sinai
Marilyn Gonzalez	Biology	Ph.D.	GSUC of CUNY
Miguel Chavez	Biology	MD/Ph.D.	SUNY Downstate
Nathan Stevens	Chemistry	Ph.D.	GSUC of CUNY
Shrimati Balram	Chemistry	Ph.D.	Univ. of Conn
Steve Castro	Chemistry	Ph.D.	GSUC of CUNY
Steven Rodriguez	Biology	Ph.D.	Cornell University

Eva Marin,

MS degree recipient January 2003

Major research accomplishment in the last year

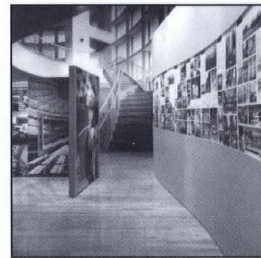
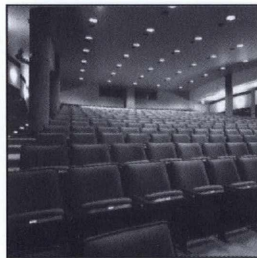
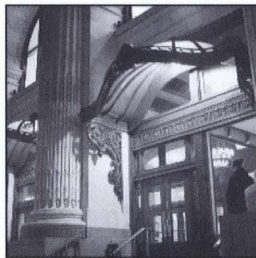
Evaluation of the Economic Impact of business relocation into New Jersey from 1990-1999. We determined the variables that played the most important role in the decision making process.

Major academic accomplishment in the last year

Completed my MS degree in Civil Engineering (Transportation) from the City College School of Engineering.

Plans for 2003

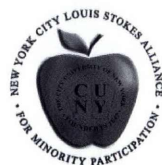
I plan to start my professional career, go back to school to earn an MBA and possibly start my own business.



BRIDGE TO THE DOCTORATE



A unique and distinguished intellectual partnership, The Graduate Center is the doctorate-granting institution for The City University of New York (CUNY). Here, 4,000 students and 1,600 faculty join in the shared enterprise of exploring and expanding the boundaries of knowledge within 32 doctoral programs in the humanities, social sciences and sciences. More than a third of the rated Ph.D. programs rank among the country's top 20.



The objectives of this Bridge to the Doctorate program is to entice newly minted LSAMP STEM graduates to forego the immediate rewards of the workplace and embark on an extended journey that would provide the long-term gratification of a research/academic career.

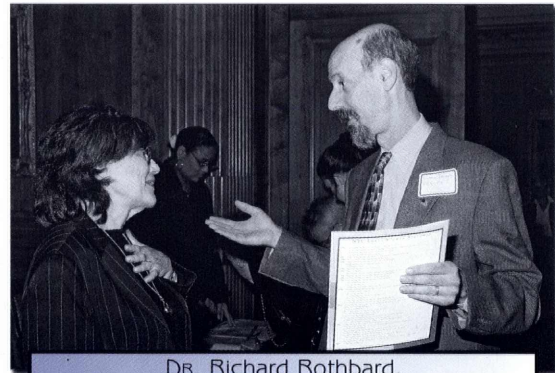
The program is centered at the CUNY Graduate Center

Seven LSAMP Scholars received Ph.D. degrees

Seven LSAMP Scholars received MS degrees

UNIVERSITY-WIDE MENTOR RECEPTION

A Mentor Reception Ceremony was held on October 16, 2003, to honor the faculty members working with LSAMP scholars over the last decade. Dr. Louise Mirrer, Senior Executive Vice-Chancellor for Academic Affairs and Richard Rothbard, President of CUNY Research Foundation, hosted the event.



Dr. Richard Rothbard,
President of CUNY Research Foundation

DURING THE 2002-2003 ACADEMIC YEAR:
Over 125 CUNY faculty mentors participated in LSAMP activities.

LSAMP FACULTY MENTOR & GOVERNING BOARD MEMBER, DR. STEVE GREENBAUM, RECEIVES AWARD FOR EXCELLENCE IN SCIENCE, MATHEMATICS, AND ENGINEERING MENTORING

THE PRESIDENTIAL AWARD FOR EXCELLENCE IN SCIENCE, MATHEMATICS, AND ENGINEERING MENTORING IS AWARDED JOINTLY BY THE NATIONAL SCIENCE FOUNDATION AND THE WHITE HOUSE OFFICE OF SCIENCE AND TECHNOLOGY POLICY.



DR. STEVE GREENBAUM (CENTER) WITH DR. RITA COLWELL (HEAD OF NSF) AND DR. JACK MARBURGER (PRESIDENT'S SCIENCE ADVISOR) TAKEN AT THE AWARD CEREMONY

Classroom learning experiences can be quite rewarding and intellectually stimulating, but nothing really compares to being "in the game" of original inquiry.

-Dr. Steve Greenbaum

NYC Louis Stokes Alliance

- 1992** 13 Colleges of the City University of New York
Course restructuring in Math Enrolling 1000 Students, workshop approach to gatekeeper courses in Math, Chemistry and Physics
Undergraduate Research Experience
- 1993** NASA Partnership begins with the Institute of Climate and Planets
- 1994** NYC LSAMP Governing Board Established
- 1995** Other NASA Partnerships: MASTAP and MUSPIN
NSF Funding for Workshop Chemistry
SEMRAP Awards
- 1996** Institutionalization Plan for Phase II
- 1997** Phase II Begins
16 Colleges and the Graduate School and University Center
- 1998** Program named for retiring congressman Louis Stokes
- 1998** 1st Annual Urban University Conference Series
- 1998** Institutionalized courses enrolling 7,303 Students
198 LSAMP Scholars
110 Faculty Mentors
128 Institutionalized Research Scholars
- 1999** Institutionalized and restructured courses enrolling over 11,000 Students
Over 250 LSAMP Scholars
142 Faculty Mentors
165 Institutionalized Research Scholars
139 Summer Participants
55 Students participated in the Pre-collegiate program
18 LSAMP Scholars participate in the Teacher Preparation Program
- 2000** Institutionalized and restructured courses enrolling over 13,300 Students
Over 200 LSAMP Scholars
163 Faculty Mentors
30 Faculty Research Awards from 1995-2000
194 Institutionalized Research Scholars
120 Summer Participants in CUNY
50 Summer ICP Participants at NASA GISS and CUNY Campuses
47 Students participated in the Pre-collegiate program
18 LSAMP Scholars participate in the Teacher Preparation Program
- 2001** Inauguration of the LSAMP Carver Scholars Program
Preliminary discussions on the CUNY Consortium for Minority Participation in SMET (CCMP-SMET)
Four Borough-wide Forums for the academic year 2000-2001
Institutionalized and restructured courses enrolling over 14,598 Students
42 Faculty Research Awards from 1995-2001
From inception, 230 LSAMP Scholars have earned BA or BS degrees
50 LSAMP Scholar participants in CUNY Summer Research
Over 40 LSAMP Scholars participants in research and internships at non CUNY sites
- 2002** LSAMP enters Phase 3
- 2003** Graduation and enrollment of underrepresented minorities in the STEM disciplines reached 111% and 82% respectively
NYC LSAMP Bridge to the Doctorate Program centered at the Graduate School
From inception, 308 LSAMP Scholars have earned BA or BS degrees
Over 54 LSAMP Scholar participants in research and internships at non-CUNY sites