

NEW YORK CITY ALLIANCE NEWS



VOLUME 9 ISSUE 3

2002 CONFERENCE ISSUE

5th Annual Urban University Series *Celebrating Ten Years of Alliance Activities • Keynote Address by Dr. Rita Colwell*

On the LSAMP Program:

I will begin by congratulating you on ten years of sheer excellence. NSF and the nation are grateful for your consistent effective work on recruiting the bright and talented students to the STEM disciplines. The LSAMP program is a wonderful successful story. Since it began in 1990 the program has produced well over 170,000 minority baccalaureate students. This year student participants have now reached an all time high of 201,615 enrollees. That is a good sign for our country. The LSAMP umbrella is continuously expanding, three new alliances were recently added. The Pacific, the North East, and the Mid-East LSAMP. We can be assured that these new alliances will continue to enhance minority participation.

To New York City:

All of you are aware of the tremendous effort that it takes to operate a successful program. We can only imagine the effort it took, to persist after the terrible tragedy that struck New York City. A place so symbolic of America's spirit and can do attitude. The strength and resilience that the citizens of the city displayed serve as an inspiration to the rest of the country. And that's why this year's LSAMP magazine is dedicated to the citizens of New York. New York City is all about determination and dedication, a city whose people rise to all challenges.

On Diversity:

We are united in the need to diversify the Science and Engineering workforce so that it looks like the ever changing composition of our country. This is not only the right thing to do, and the just thing to do, but it is the best move that we can make to ensure our nation's future. And your hard work with the New York City LSAMP has already brought us steps closer to making it a reality.

Our society is rooted in Science & Technology, and it simply cannot sustain itself, let alone be robust, without a world class cadre of scientists, engineers and mathematicians in a highly qualified complementary workforce. Diversifying the STEM workforce is vital to sustaining our economic pace and continuing our ability to compete. Our entire workforce must be educated and trained to participate fully in a society that is increasingly complex, but potentially more fulfilling for each one of us. Our STEM workforce in particular will be critical to this task. Broadening participation in our specialized workforce must come from the land of plenty, which is the United States. This includes our mostly untapped potential of underrepresented minorities which I would call America's competitive edge for the 21st century. Here lies one of America's greatest opportunities and one that we must all meet with commitment.

Focusing on broadening participation of underrepresented minorities has to be the drum beat for each of us. Our STEM workforce can become ever more capable and competitive if we achieve this goal. Our nation can be stronger, more productive.

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LOUIS STOKES ALLIANCE FOR MINORITY
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New York City Alliance News

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

Urban University Conference Series

Central to the City University's mission of access and excellence are the undergraduate research programs across the University supported by the National Science Foundation, the National Institutes of Health, the Department of Energy, the Mellon Foundation, Carver Bancorp Foundation, the Pfizer Foundation, Bristol Myers Squibb Foundation, the Sloan Foundation, the Department of Education, New York State Education Department, and NASA.

Learning communities across CUNY have contributed immensely to the University graduating over 5,800 minority graduates between 1992 and 2001. 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.

Alerting students to the pathways at the earliest stage is important. It is also extremely important that we demonstrate that these pathways exist and can be achieved. 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 oppor-

tunity to connect with exhibitors on fellowship and employment opportunities, graduate education and summer research programs.



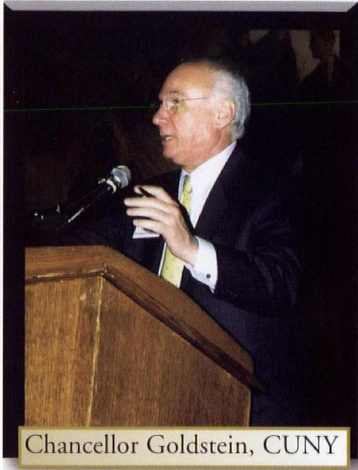
Introduced in the 2000-2001 academic year as a component of the Urban University Series, Borough-wide meetings have been held on the campuses of Bronx CC, Lehman College, Hunter College, Kingsborough CC, York College, Queens College and Medgar Evers College. Four meetings are scheduled each academic year, capped off in April at the Urban University Conference.

Held annually since 1998, the conference has attracted 200 participants in 1998, and over 500 participants in 1999, 2000 and 2001. In 2002, the event attracted over 600 participants during the two days of the program.

CONFERENCES

July 31st-NASA Earth & Space Science Research & Education Conf.
 Sept. 13th-14th-New Mexico AMP Conference-New Mexico State Univ.
 Sept. 14th-16th-3rd National Role Models Conference-Washington D. C.
 Sept. 26th-29th-SACNAS Conference-Anaheim, CA

Chancellor Goldstein



Chancellor Goldstein, CUNY

Congratulations to our students and faculty who are here today. You are the true gifts to our institutions, you are the true gifts to our society by the work that you do.

In pockets of America, in Urban America in particular, too many young people are not being exposed to very basic ideas in science at a very young age, and that divide is widening, not narrowing. The educational and science divide those people that have access to good exposures to science in primary and secondary school, and those that don't, present a clear and present danger for our national security. The divide augurs poorly for us as a society and we must turn it around. I cannot think of a better way to do that than what we are doing in AMP. The AMP as a program was designed at its inception to bring together people who have not been exposed or encouraged enough to participate in the study of mainstream science. For that, the founding brothers and sisters, who had this wonderful idea of AMP, I salute you. As a society we do not have a choice, it must continue and it must expand. We must educate the entire people.



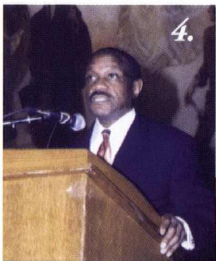
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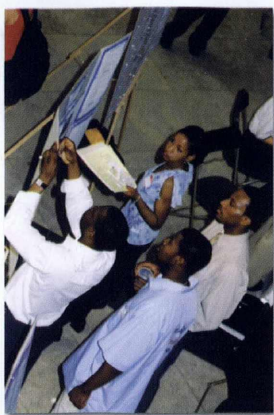


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1. President D. Fernandez, Hostos C.C. & Dr. H. Canate, Hostos C.C. 2. Conference Speakers: Dr. Castillo-Chavez & Dr. Kamizaruk 3. President G. Williams, City College 4. President E. Jackson, Medgar Evers College 5. Assemblyman A. Espillat 6. Dr. R. Blake, EPA 7. Dean S. Alexandratos, CUNY, Dr. A. James Hicks, NSF & President R. Perez, Borough of Manhattan C.C. 8. President S. Kenny, SUNY Stony Brook 9. Councilman M. Martinez 10. Dr. R. Colwell, Dr. A. James Hicks, President R. Perez 11. President R. Fernandez, Lehman College & Dr. R. Colwell 12. Dr. S. Whitaker, NIEHS

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"It helps students develop their interests and encourages you to strive for high goals. Gives students opportunities they might not otherwise experience."

RESEARCH PROGRAMS

STUDENTS WHO ARE INTERESTED IN RESEARCH HAVE A CHANCE TO WORK ON CAMPUS, AND CAN BENEFIT FROM THE KNOWLEDGE AND EXPERIENCE OF WORKING IN AREAS OF SCIENCE, ENGINEERING, AND MATHEMATICS. STUDENTS EXPRESSED THE IMPORTANCE OF THE EXPOSURE THEY RECEIVE AND THE OPPORTUNITIES TO ATTEND GRADUATE SCHOOL AND REALIZE THEIR GOALS.



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STUDENTS BELIEVE THAT SPREADING THE WORD AMONG OTHER MINORITY STUDENTS, NETWORKING, AND VISITING THE RESEARCH LABS ARE THE KEY ELEMENTS TO A SUCCESSFUL PROGRAM. THE IMPORTANCE OF INFORMING OTHER STUDENTS AND FACULTY ABOUT THE OPPORTUNITIES OF THE PROGRAM AND OF HELPING AND GUIDING NEW STUDENTS IS OBVIOUS IN THE ACCOMPANYING RESPONSES. ALTHOUGH WORK IN THE RESEARCH LABS IS IMPORTANT TO ALL STUDENTS, THE NEED TO BE A WELL-ROUNDED EDUCATION IS EVIDENT. THE STUDENTS THAT RESPONDED TO THE SURVEY VERY MUCH INVOLVED IN OTHER CAMPUS ACTIVITIES. AMP SCHOLARS ARE TAKING ON THE ROLE OF PRESIDENT, VICE-PRESIDENT OF SCIENCE CLUBS, (CHEMISTRY, BIOLOGY) MANY ARE TUTORS, MANY ARE ALSO MEMBERS OF NATIONAL ORGANIZATIONS AS WELL AS MEMBERS OF HONOR SOCIETY. THEY BELIEVE THE PUBLIC SCHOOL EXPERIENCE IS A GOOD IDEA AND THAT STARTING AT THE UNDERGRADUATE LEVEL IS MOST IMPORTANT.

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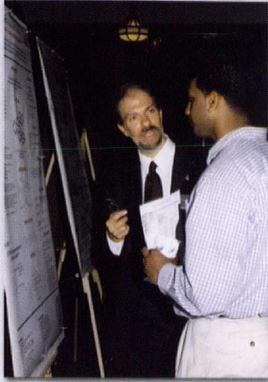
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UNIVERSITY SERIES CONFERENCE

TO GATHER FEEDBACK VIA STUDENT SURVEYS.

RESPONSES TO SEVERAL OPEN ENDED QUESTIONS. *By Ivette Estrada*

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"I get personal attention from my mentor and my coworkers are more advanced than I. I think that is just great."

MENTORING



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THE ASPECTS OF MENTORING THAT THE STUDENTS FEEL ARE MOST IMPORTANT INCLUDE ENCOURAGEMENT, MOTIVATION AND COMMUNICATION. A FACULTY MEMBER WHO IS FRIENDLY, PATIENT, AND INTERESTING, FOSTERS AN ENVIRONMENT THAT ALLOWS STUDENTS TO BETTER EXCHANGE IDEAS, FEEL FOCUSED AND LEARN FROM THEIR MISTAKES. MEETING WITH THEIR MENTORS ON A REGULAR BASIS IS IMPERATIVE FOR THE SENSE OF PRODUCTIVITY IN BOTH THEIR RESEARCH AND ACADEMIC GOALS, AS STATED BY ONE STUDENT



"As we all know, the percentage of minorities in higher education is very low and mostly due to financial issues. By providing some financial aid, it will help them continue school. AMP has provided that, in addition to the support and guidance."



"Yes, it's for the greater good—my research on a protein will unfold another mystery of how the body works" "Yes, it helps other students to become involved in research which eventually helps to improve advancement in research."



RESEARCH



COMMUNITY

COMMUNITY BEING INFORMED OF THE NEW DEVELOPMENTS IN SCIENCE AND TECHNOLOGY FIELDS IS THE KEY IMPORTANCE PERCEIVED BY STUDENTS REGARDING THE IMPORTANCE OF THE ALLIANCE TO THE COMMUNITY. THEY AGREE THAT ADVANCEMENTS IN TECHNOLOGY CAN BE MADE ALONG WITH BRINGING MINORITY STUDENTS TO SCIENCE AND PROVIDING QUALITY EDUCATION. STUDENTS BECOME AN ACTIVE PARTICIPANT IN INCREASING THE KNOWLEDGE IN THE COMMUNITY, IT THEREFORE PLAYS AN IMPORTANT ROLE IN THE LIVES OF MANY MINORITY STUDENTS.

STUDENTS PRIMARILY VIEWED THEIR RESEARCH AS IMPORTANT TO SOCIETY BECAUSE MANY ARE WORKING ON EXPERIMENTS DEALING WITH DISEASES THAT AFFECT MANY PEOPLE. THEY STRONGLY BELIEVE THAT THEIR EFFORTS WILL MAKE A DIFFERENCE IN THE ADVANCEMENT OF TECHNOLOGY THEREFORE POSITIVELY IMPACTING THE SOCIETY. THE STUDENTS AGREE THAT THEIR RESEARCH IS KEY FOR FUTURE ADVANCEMENT IN ALL AREAS OF SCIENCE THEREFORE IT IS GOOD FOR THE SOCIETY. THEIR RESEARCH HAS IMPLICATIONS IN AREAS OF BIOMEDICAL, ENVIRONMENTAL AND INDUSTRIAL SCIENCES.

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URBAN UNIVERSITY SERIES

Conference Theme: Pathway to Science and Engineering Careers for Minority Scientists and Engineers.
(Special emphasis was placed on biotechnology and the biomedical science.)

Panel discussions focused on Industry-Agency-Academia interactions that provide pathways to Careers in Biotechnology/Biomedical Research. Participants included UNCF-MERCK, North Carolina Biotechnology Initiative, NIEHS Biotechnology Education Initiative, National Medical Fellowships-Bristol Myers Squibb Initiative, and AMGEN-Spellman College Initiative.

Scientific and Personal Profiles:

Dr. Alan Lee Sessoms, President of Queens College of CUNY

Dr. John Alderete, President of SACNAS

Dr. Gerry Guyden, Professor of Biology, Director of RCMI at City College

Dr. Jill Bargonetti, Professor of Biology, Hunter College

Keynote Address: Dr. Harold Davis,

Director of Toxicology at AMGEN.



URBAN UNIVERSITY SERIES

Conference Theme: Pathways to Careers in Science, Mathematics, Engineering, and Technology.
(Special emphasis on recognizing the role of mentoring)

Keynote Address: Dr. George Campbell,

President and CEO of National Action Council for Minorities in Engineering Inc.

Honorees: LSAMP Faculty Mentors

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U R B A N U N I V E R S I T Y S E R I E S

2000

Conference Theme: Pathways to Success

A panel discussion "Phases of the Pipeline" Chaired by Professor Ardie Walser of City College (Electrical Engineering), explored a number of issues and generated an interactive discussion between panelists and the students in the audience. From the panelists, students got first hand information on the role of Motivation, Mentors, Information, Internships and Research Opportunities in the Pathway.

Honorees- Program Enablers included the NYC LSAMP Activity Coordinators and Steering Committee, Dr. Fitzgerald B. Bramwell, Dean Charles B. Watkins of the City College School of Engineering, Bristol-Myers Squibb, NASA, Brookhaven National Labs, Pfizer and SONY.

Keynote Address: Dr. Fitzgerald B. Bramwell

Vice President for Research and Graduate Studies, University of Kentucky.

U R B A N U N I V E R S I T Y S E R I E S

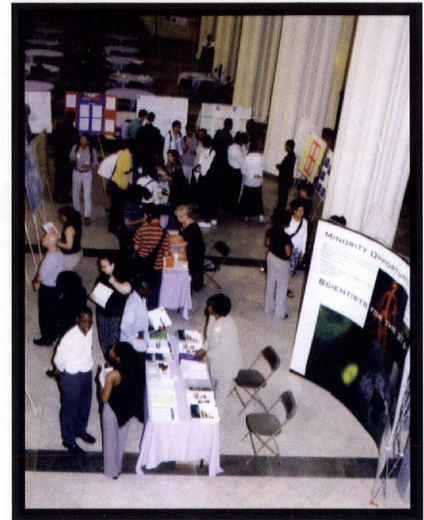
2001

Conference Theme: Creating the Integrated University
(A culmination of four borough wide meetings for the 2000-2001 academic year.)

Keynote Address: Neville A. Parker, Ph.D., P.E.

Herbert G. Kayser Professor of Civil Engineering and NYC LSAMP Project Director

Honorees- Pre-collegiate participants, Carver Scholars, Valedictorian, and Ph.D. candidates for academic excellence



U R B A N U N I V E R S I T Y S E R I E S

2002

Conference Theme: Celebrating Ten Years of Alliance Activities in the City University of New York.
(A culmination of four borough wide meetings for the 2001-2002 academic year.)

Keynote Speakers:

Dr. Rita Colwell, Director, National Science Foundation

Dr. Barry R. Komisaruk, MBRS Program Director, Division of Minority Opportunities in Research.

Featured Speakers:

Chancellor Matthew Goldstein, City University of New York

Dr. Carlos Castillo-Chavez, Professor of Biomathematics, Cornell University

Director of the Mathematical and Theoretical Biology Institute

Scientific Sessions:

Dr. Reginald Blake, New York City Department of Environmental Protection

Dr. Shree Whitaker, National Institute of Environmental Health Sciences (NIH)

Science and Tech Exposition: Exhibitors and from twenty six graduate schools and organizations

Roundtable Discussions: Program Managers and Project Directors

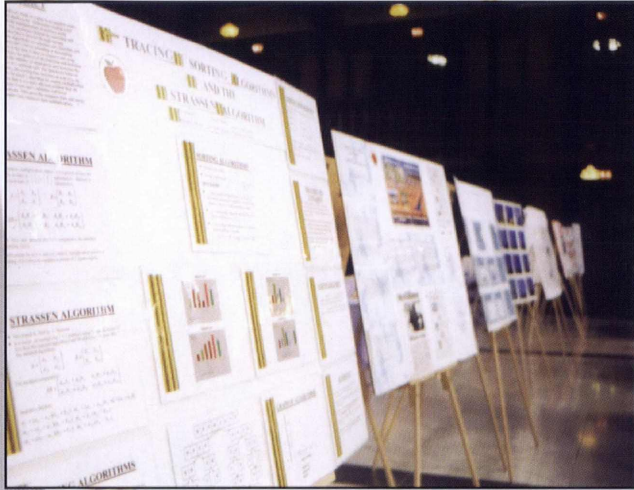
2002 *Urban University Conference Series*

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NSF Director Speaks

TO THE STUDENTS:

Even with LSAMP success, our nation could use about 50,000 more minority STEM graduates and I consider that a challenge. And if we could pull from the pool that LSAMP has already created, we could make tremendous strides. To the talented students that are here I encourage you, I urge you, I exhort you to pursue your graduate school careers, earn your Ph.D., and enter into a productive life of Science, Engineering or Mathematics. Exciting careers and opportunities in Science & Engineering are waiting for you. Your success will serve as an inspiration and a model to others who will be encouraged to follow in your footsteps. You will be the movers and shakers to attract other minority students into STEM disciplines.



New York City Louis Stokes Alliance

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