

Seventh Annual NC OPT-ED ALLIANCE DAY 2008



TY THROUGH EDUCATION
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*Science, Technology, Engineering and Mathematics:
Inspiring Greatness for the 21st Century*

NC-LSAMP

North Carolina Louis Stokes
Alliance for Minority Participation

AGEP

Alliances for Graduate Education and the Professoriate



NORTH CAROLINA ALLIANCE TO CREATE OPPORTUNITY THROUGH EDUCATION

The North Carolina Alliance to Create Opportunity through Education (NC OPT-ED) is designed to substantially enhance efforts in North Carolina to increase the number of underrepresented minority (URM) students receiving Ph.D. degrees and ultimately entering the professoriate in science, technology, engineering, and mathematics (STEM) fields as well as the social, behavioral and economic science (SBE) fields. Funded by the National Science Foundation Alliances for Graduate Education and the Professoriate (NSF-AGEP), NC OPT-ED combines the resources of three institutions: North Carolina Agricultural & Technical State University (NC A&T), North Carolina State University (NC SU), and the University of North Carolina at Chapel Hill (UNC-CH). The Alliance is joined by a formal network including all other URM projects in North Carolina funded by the National Science Foundation-Division of Human Resource Development (NSF-HRD): The Louis Stokes Alliance for Minority Participation Program (NC-LSAMP); Historically Black Colleges and Universities Undergraduate Program (HBCU-UP); Centers for Research Excellence in Science and Technology Program (CREST); Social, Behavioral and Economic Sciences Program; the North Carolina Math Science Education Network (NC-MSEN); and The Pisgah Astronomical Research Institute (PARI).



NC OPT-ED Central Office

Larry Campbell

Program Manager & Alliance Coordinator

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www.unc.edu/opt-ed

AGEP

Alliances for Graduate Education and the Professoriate Program

The AGEP program is intended to significantly increase the number of domestic students receiving doctorates in STEM, with special emphasis on those population groups underrepresented in these fields (i.e., African Americans, Hispanics, American Indians, Alaska Natives, Native Hawaiians, and other Pacific Islanders). AGEP is particularly interested in increasing the number of minorities who will enter the professoriate in these disciplines.

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CREST | Centers of Research Excellence in Science and Technology

The CREST program makes resources available to significantly enhance the research capabilities of minority-serving institutions through the establishment of centers that effectively integrate education and research. CREST promotes the development of new knowledge, enhancements of the research productivity of individual faculty, and stimulates greater diversity in student presence in STEM disciplines. This Center supports the establishment or strengthening of partnerships and collaborations between CREST centers and nationally recognized research centers. The Center for Advanced Materials and Smart Structures (CAMSS) at both North Carolina Agricultural & Technical State University and North Carolina State University seeks to create cross-disciplinary infrastructure that transcends departmental, institutional, industrial and governmental barriers and lends itself to the integration of research and education in the vital field of smart and advanced materials.

North Carolina A&T State University

Dr. Jag Sankar | Director-NSF ERC for Revolutionizing Metallic Biomaterials | sankar@ncat.edu

North Carolina State University

Dr. Jagdish (Jay) Narayan | CAMSS Director. | j_narayan@ncsu.edu

HBCU-UP | Historically Black Colleges and Universities—Undergraduate Programs

The HBCU-UP provides awards to enhance the quality of STEM instructional and outreach programs at Historically Black Colleges and Universities (HBCUs). As an important step in expanding participation in the nation's STEM workforce, support is available for implementation projects and planning grants. Proposed activities are the result of careful analysis of institutional needs, address institutional and National Science Foundation goals, and have the potential to result in significant and sustainable improvements in STEM program offerings. Participating universities include:

Bennett College for Women (Integrating Technology in Science and Math Instruction)

Dr. Marilyn S. Mobley | Provost, PI

Dr. Margaret W. Curtis | Executive Director | mcurtis@bennett.edu

Johnson C. Smith University (CORE—Community of Research and Experiential Education)

Dr. Phyllis Dawkins | Provost, PI

Dr. Janice Kennedy-Sloan | Project Manager | jksloan@jcsu.edu

NC A&T State University (Talent-21)

Dr. Guoqing Tang | Professor, Mathematics, PI | gtang@ncat.edu

Ms. Sunnie Howard | Program Coordinator | sunnie@ncat.edu

Shaw University (Academic Excellence Through Research and Mentoring)

Dr. Elvira Williams | Dean, College of Arts and Sciences, PI | elviraw@shawu.edu

Winston Salem State University (A Program to Enhance Excellence in Stem Disciplines)

Dr. Abdul Mohammed | Chemistry Professor, PI | mohammeda@wssu.edu

Mr. Ron Giddings | Program Manager | giddingsr@wssu.edu

NC-LSAMP | North Carolina Louis Stokes Alliance for Minority Participation

The NC-LSAMP program is aimed at increasing quantity of students successfully completing STEM baccalaureate degree programs, as well as increasing the amount of student-interest, the level of academic qualification, and the number of matriculations into programs of graduate study. NC-LSAMP supports sustained and comprehensive approaches that facilitate the long-term goal of increasing the number of students who earn doctorates in STEM fields, particularly those from underrepresented minorities. The program goals are accomplished through the formation of alliances. The participating institutions are Fayetteville State University; North Carolina Central University; North Carolina Agricultural and Technical State University; North Carolina State University; University of North Carolina at Chapel Hill; University of North Carolina at Charlotte; University of North Carolina at Pembroke; and Winston-Salem State University.

Central Administration - North Carolina A&T State University

Dr. Alton Thompson | Provost, PI | alton@ncat.edu

Ms. Marcia Williams | NC-LSAMP Alliance Coordinator | marcia@ncat.edu

NC-MSEN | North Carolina Math Science Education Network - Pre-college Program (Grades 6-12)

The Pre-College Program is positioned to make substantive contributions towards helping students meet the highest expectations in STEM and is committed to providing quality, year-round academic enrichment programs that support students, parents, guidance counselors, and teachers. Participants include: East Carolina University; Elizabeth City State University; Fayetteville State University; North Carolina Agricultural and Technical State University; North Carolina State University; University of North Carolina at Chapel Hill; University of North Carolina at Charlotte (Center for Mathematics, Science and Technology Education - CMSTE); Western Carolina University; and Winston-Salem State University.

Dr. Verna Holomon | Executive Director, PI | holomonv@northcarolina.edu

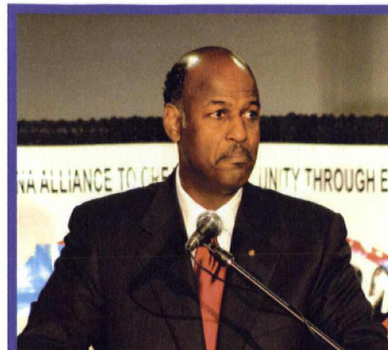
Dr. Rita Fuller | Associate Director | rfuller@northcarolina.edu

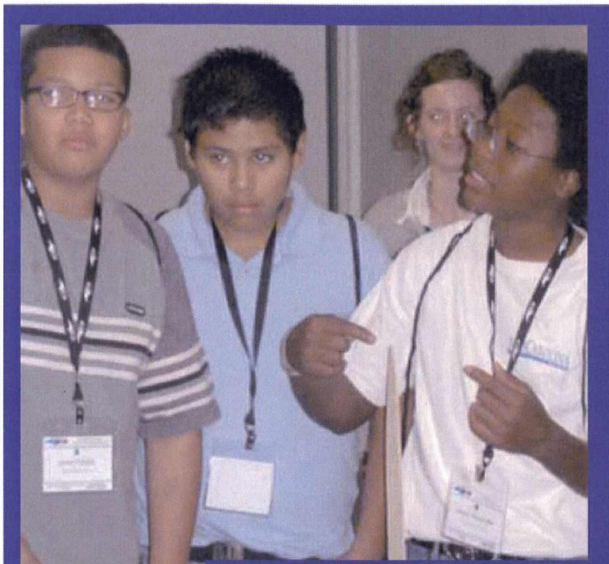
PARI | Pisgah Astronomical Research Institute

The Pisgah Astronomical Research Institute is a not-for-profit public foundation dedicated to providing research and educational access to radio and optical astronomy for a broad cross-section of users including pre-college through post-graduate students.

Mr. Don Cline | President | dcline@pari.edu

Dr. David E. Clavier | Vice President of Admin and Development | dclavier@pari.edu



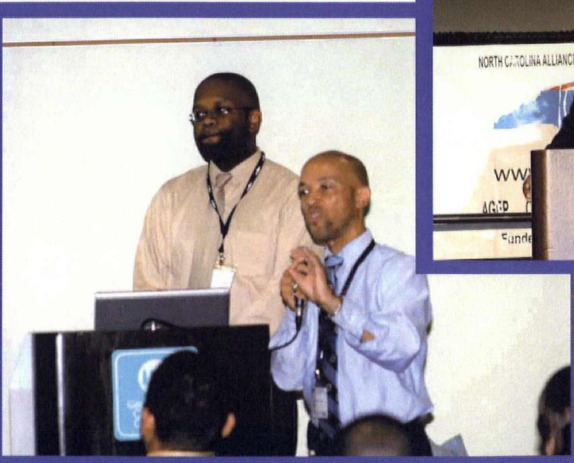


The Seventh Annual NC OPT-ED Alliance Day, co-hosted by NC-LSAMP, had more than **1000** participants from middle schools, high schools, community colleges, undergraduate and graduate institutions throughout North Carolina and from across the United States.



Attendees came from more than **30** different colleges and universities and **100** different high schools and middle schools.

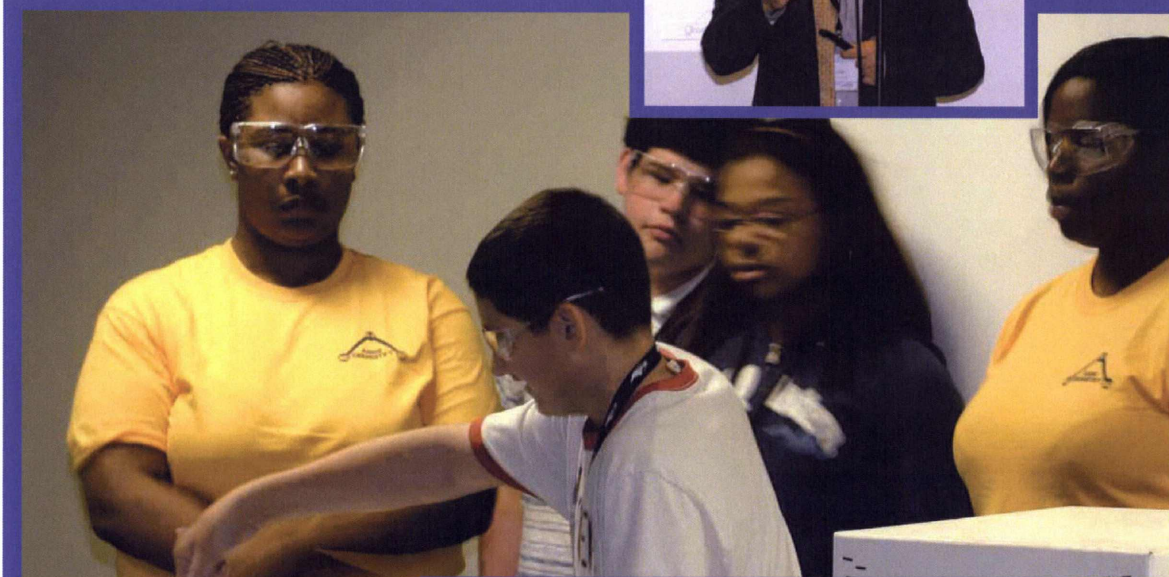
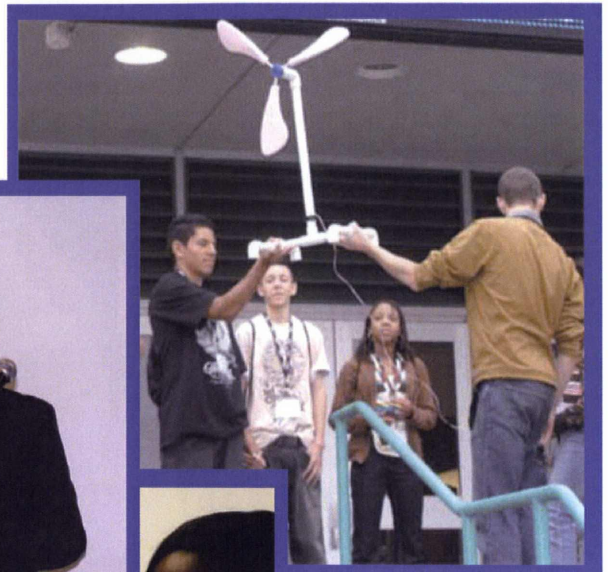
The morning began with a welcome from both the Mayor Pro Tem of the host city, Greensboro, and Dr. Alton Thompson, Interim Provost at NC A&T State University and NC-LSAMP Principal Investigator. NC A&T State University Chancellor Dr. Stanley Battle provided the opening remarks.



Each academic level followed a unique agenda targeting their specific needs.

Workshops throughout the day featured 37 informative speakers.

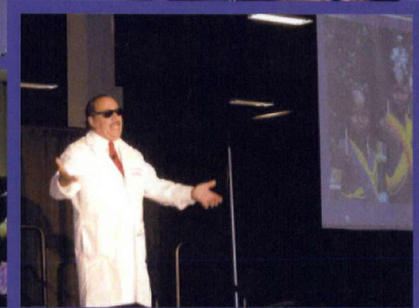
Topics of workshops ranged from “Making the Leap to High School” for the Middle School students to “Developing & Maintaining Professional Relationships” for the Graduate Students.



Undergraduate & Graduate students provided workshops to high school & middle school students fostering a mentoring relationship across academic levels.



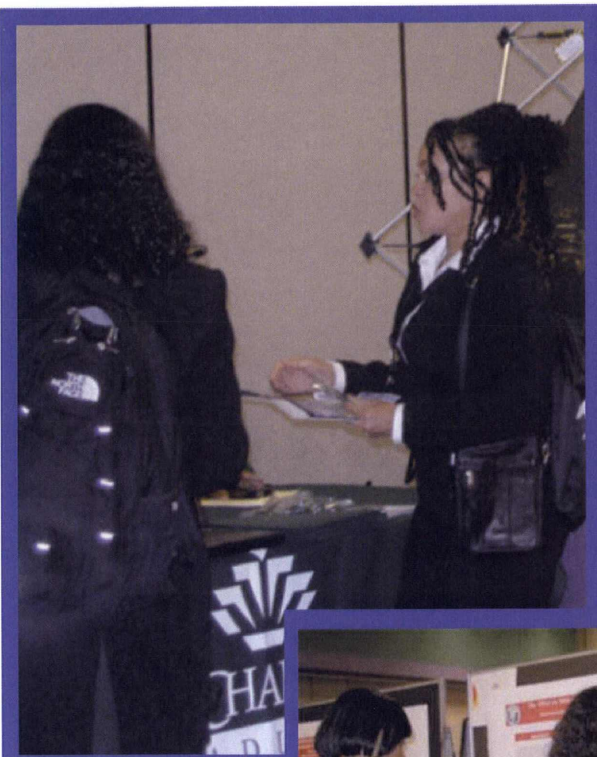
Students participated in hands on and interactive workshops in various STEM disciplines.



Dr. Eloy Rodriguez (pictured on the cover and at left) of Cornell University delivered an educational and entertaining key note address to the more than 1000 Alliance Day attendees.

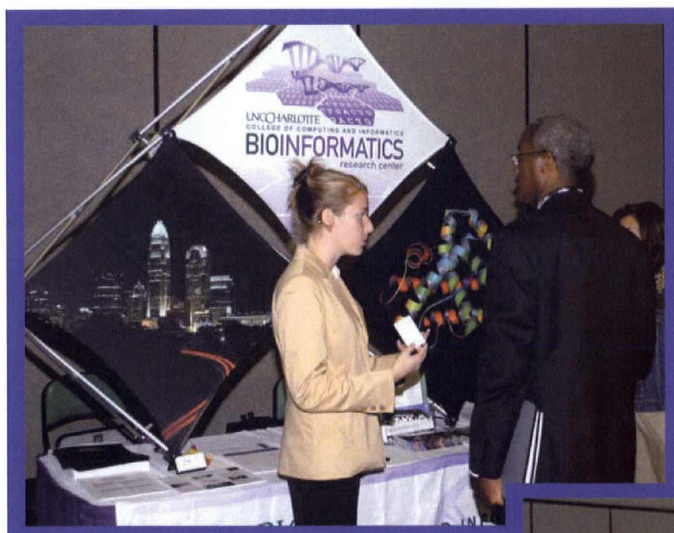
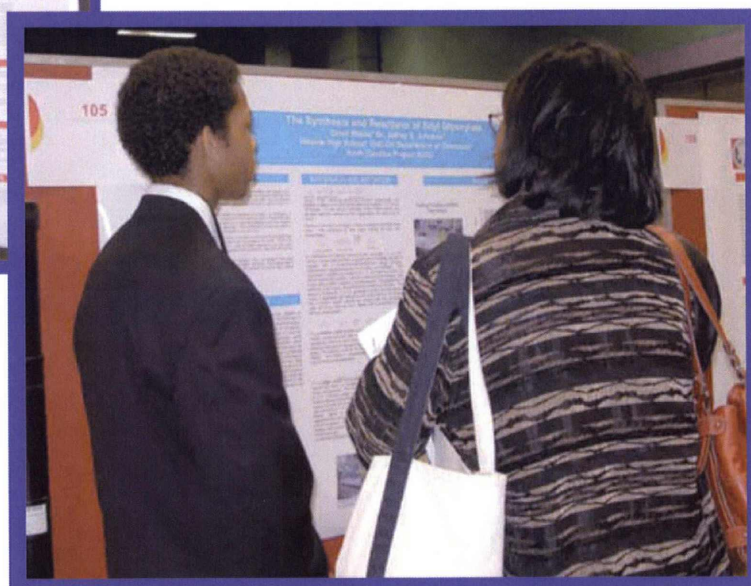
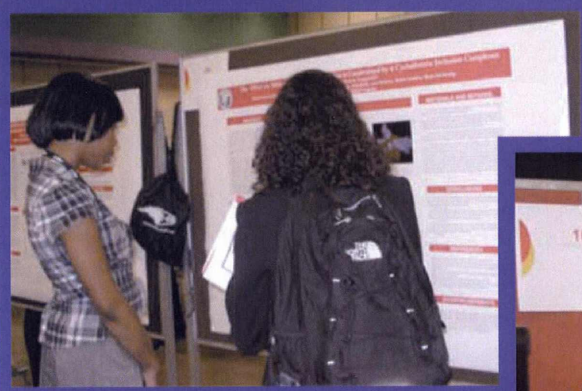
The opportunity to interact with students of varying backgrounds and programs was provided at Alliance Day.





Students provided oral presentations (pictured above) and poster presentations (pictured below). **24** students gave oral presentations, while **120** students presented their research during the poster session.

Students from all academic levels had the opportunity to interact with both undergraduate and graduate recruiters from across the country.

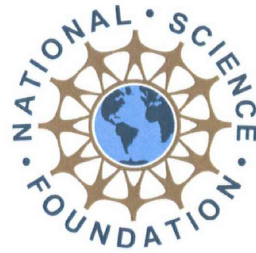


There were a total of 34 colleges and universities from across North Carolina and the country represented at the recruitment fair: 11 undergraduate recruiters, 13 graduate school recruiters, & 10 recruiting both undergraduate & graduate students.

The Poster Presentation Session and Recruitment Fair occurred concurrently in the same area (pictured at right) giving students the opportunity to move freely between poster presentations provided by fellow peers and the many recruiters.



NC OPT-ED and NC LSAMP joined resources in providing the Seventh Annual NC OPT-ED Alliance Day conference. The NC OPT-ED Alliance & NC LSAMP are funded by the National Science Foundation Division of Human Resource Development. Funding from the National Science Foundation provides substantial support for Alliance Day.



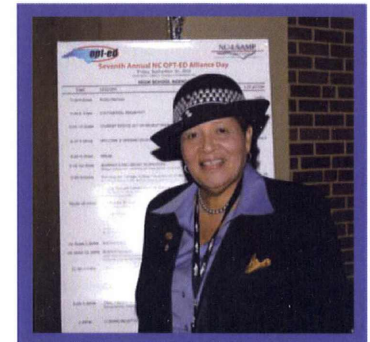
The success of Alliance Day can only be attributed to the gracious support of the below individuals, organizations, and programs:



Elizabeth McDuffie (pictured above), Director of Grants, Training, and Outreach for North Carolina State Education Assistance Authority



Dr. Duane Larick (pictured above), interim Dean of NC State Graduate School and director of BRIDGE (Bioscience Research Initiative for Doctorate Education)



Representative Alma Adams (pictured above) and Representative Maggie Jeffus, both in attendance to support Alliance Day 2008



All NC OPT-ED Alliance partners, listed on page 2-3 and their supportive staffs (pictured at left). Also, the many other programs throughout the state of North Carolina who continue to support Alliance Day: NC TABS (North Carolina Transfer Assistance in Biomedical Sciences Program), IMSD (Initiative for Maximizing Student Diversity), GEAR UP (Gaining Early Awareness and Readiness for Undergraduate Programs) and AVID (Advancement Via Individual Determination).

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Photo Essay

A collaborative partnership between
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and funded by the National Science Foundation.



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