

THE NATIONAL SCIENCE FOUNDATION

The University of Alabama at Birmingham

Alabama Louis Stokes Alliance for Minority Participation



**2009 Workshop on Best Practices for the Recruitment
and Transition of Engineering and Science Students
from Community Colleges to Four-Year Institutions**

October 4-6, 2009

The University of Alabama at Birmingham
Hill University Center
Birmingham, Alabama

Supported by

**The National Science Foundation
Directorate for Engineering and
Directorate for Education and Human Resources**

Welcome to

The University of Alabama at Birmingham

“A world-renowned research university and medical center”



The University of Alabama at Birmingham is pleased to have been chosen as the site of the 2009 National Science Foundation sponsored **Workshop on Best Practices for the Recruitment and Transition of Engineering and Science Students from Community Colleges to Four-Year Institutions.**

We are a world-renowned research university and medical center, ranked 27th nationally in federal research funding and named in the 2009 Princeton Review among “The Best 368 Colleges” in the country. Both, in keeping with our vision, a “first choice in education and health care.”

We are Birmingham’s economic engine, with an impact exceeding \$3 billion annually, and Alabama's largest employer, with nearly 19,000 dedicated employees working and excelling together in an inclusive, supportive environment.

Our faculty are pushing daily the frontiers of science, engineering, and medicine, as well the social sciences, arts, and humanities. Consequently, UAB students are among the top students in the nation and true citizens of the world.

We wish for you a productive workshop on our campus and an enjoyable stay in our city, so much so that you will return again soon and discover what all UAB has to offer. If we can be of assistance to you in the achievement of your workshop goals, please call upon us as we support your efforts on behalf of community colleges and four-year institutions.

Carol Z. Garrison

UAB President

The National Science Foundation

The National Science Foundation (NSF) is an independent federal agency created by Congress in 1950 "to promote the progress of science; to advance the national health, prosperity, and welfare; to secure the national defense..." With an annual budget of about \$6.06 billion, we are the funding source for approximately 20 percent of all federally supported basic research conducted by America's colleges and universities. In many fields such as mathematics, computer science and the social sciences, NSF is the major source of federal backing. We fulfill our mission chiefly by issuing limited-term grants -- currently about 10,000 new awards per year, with an average duration of three years -- to fund specific research proposals that have been judged the most promising by a rigorous and objective merit-review system. NSF's goals--discovery, learning, research infrastructure and stewardship--provide an integrated strategy to advance the frontiers of knowledge, cultivate a world-class, broadly inclusive science and engineering workforce and expand the scientific literacy of all citizens, build the nation's research capability through investments in advanced instrumentation and facilities, and support excellence in science and engineering research and education through a capable and responsive organization. We like to say that NSF is "*where discoveries begin.*"

Office of the Director (OD)

Director



Dr. Arden L. Bement, Jr.

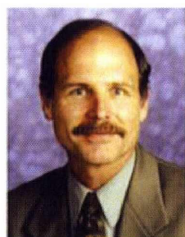
Deputy Director (Acting)



Dr. Cora B. Marrett

Directorate for Engineering

Assistant Director



Thomas W Peterson

Directorate for Education and Human Resources

Assistant Director (Acting)



Dr. Wanda E. Ward

Division of Human Resource Development

Director



Dr. James Wyche

Engineering Diversity and Outreach - Dr. Omnia El-Hakim, *Program Director*

The Louis Stokes Alliances for Minority Participation - Dr. A. James Hicks, *Program Director*
Ms. Martha James, *Program Assistant*

Workshop Goals

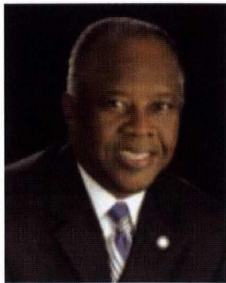
The *2009 Workshop on Best Practices for the Recruitment and Transition of Engineering and Science Students from Community Colleges to Four-Year Institutions* is the result of discussions between program directors at NSF in the Directorate of Engineering and the Directorate of Education and Human Resources regarding the need to increase the number of underrepresented minority students entering careers in engineering and science. These discussions resulted in a decision to hold a national workshop that focused on the recruitment of community college students because of the increasing number of students choosing to attend these institutions. The goal of the workshop is to engage in a national dialogue on the best practices for the recruitment and transition of engineering and science students from community colleges to four-year institutions. This dialogue will involve presidents, faculty, staff and students from both community colleges and four-year institutions, and principal investigators from the NSF Louis Stokes Alliances for Minority Participation program (LSAMP). The proceedings of the workshop will be published and disseminated to community colleges and universities nationwide.

Community Colleges

Community colleges provide access to higher education for students who may lack the academic background, language skills or financial means to go to four-year academic institutions, or who may simply want additional job skills. Community colleges are often the first college experience for many students who are the first in their family to seek education beyond high school. Most students in community colleges do not earn formal degrees and most are enrolled part-time. Some community colleges provide science and mathematics coursework for many K–12 teachers and others are establishing certification and associate degree programs. As part of the effort to decrease high school dropout rates and increase college attendance rates, particularly among disadvantaged students, some community colleges, particularly in California, are becoming the sites of "early college high schools." These small schools situated on the campuses of community colleges, offer a curriculum that leads to students simultaneously receiving both their high school diploma and an associate of arts degree. This effort is targeted at low-income, first-generation, non-English speaking, and minority students. Several hundred community colleges offer a bachelor degree in some capacity, mostly in partnership with a related university.

Community College Transfers

A large proportion of undergraduates attend public two-year institutions seeking a wide range of services, from a place to experiment with postsecondary education to a structured vocational certificate or associate's degree program. Although the course offerings and degree programs of many community colleges can accommodate diverse student interests and goals, preparing students to transfer to a four-year college remains a central characteristic. This preparation is important to the community college's role in higher education because it affirms the community college's claim to a collegiate, academic identity and to a role in broadening access for those historically excluded from a college education. Moreover, transfer is a component of most community college students' educational aspirations. Transfer may be defined as the initial enrollment at a community college followed by subsequent enrollment at any four-year institution. Potential transfer refers to being eligible for transfer.



A. James Hicks, Ph.D.

**Senior Program Director
Louis Stokes Alliances for Minority Participation
The National Science Foundation**

Dr. A. James Hicks received his B.S. degree in Biology from Tougaloo College, earned the Ph.D. in Botany at the University of Illinois-Urbana and received postdoctoral training at the Missouri Botanical Garden, St. Louis. He acquired vast administrative training by attending the Institute for Educational Management for College and University Administrators, Harvard University, Cambridge, MA, as well as many other such institutes. Prior to becoming the LSAMP Program Director, Dr. Hicks served as Chairperson and Professor of Biology from 1977 to 1988, and later Dean of the College of Arts and Sciences from 1988 to 1997 at North Carolina A&T University. He has received numerous honors and awards for his achievements in science and for his efforts in promoting the advancements of underrepresented groups in science, engineering and mathematics. Most notable are *Minority Access Innovator Award*, *Congressional Recognition for the 2006 Educational Technology Think Tank (ET 3) TEC Champion Leadership Award*, *Torch Bearer Award for Distinguished Service to the Field of Student Retention*, *Tougaloo College Alumni Hall of Fame Inductee* and *Emerald Honors Award (Career Achievement)*.



Omnia El-Hakim, Ph.D.

**Program Director
Engineering Diversity & Outreach
The National Science Foundation**

Dr. Omnia El-Hakim has an established record of leadership in community service and academia. She joined Colorado State University, Fort Collins, CO, in 1984 while holding a joint appointment as Professor of Civil Engineering at Fort Lewis College, Durango, CO, where she also served as Department Chair of Physics and Engineering from 1996-1999. In addition, Dr. El-Hakim served as Assistant Dean for Diversity of the College of Engineering at Colorado State University from 2003-2006. During the past 13 years, she has led a consortium of universities, community and four-year colleges and Tribal Nations as Principal Investigator and Director of the Colorado Alliance for Minority Participation (CO-AMP). CO-AMP and its Bridge to the Doctorate (BD) Program are NS funded programs developed to assist underrepresented minority students as they transition from two to four-year schools and from college to professional careers or graduate school. CO-AMP also reaches out to middle schools and high schools to create interest and motivate students to pursue college degrees. Dr. El-Hakim obtained her doctoral degree in Civil Engineering from Colorado State University and a Master degree in Civil Engineering/Hydraulics from Cairo University in Egypt. She is a steadfast advocate for women, underrepresented minorities and persons with disabilities across the nation.

Agenda

Sunday, October 4, 2009

2:00-6:00 p.m.	Registration	Hyatt Hotel Lobby
4:00-6:00 p.m.	Early Bird Session with Dr. Art Hicks and Dr. Omnia El-Hakim	Hotel Rooms 1,2 & 3
6:00-7:30 p.m.	Welcome Reception	Hotel Rooms 1,2 & 3

Monday, October 5, 2009

7:00-9:00 a.m.	Registration	Hyatt Hotel Lobby
7:30-8:00 a.m.	Breakfast	Hotel Rooms 1,2 & 3
8:15- 8:45 a.m.	Shuttle from Hotel to Hill University Center Auditorium	
9:00-10:15 a.m.	Opening Session	HUC Auditorium
	Welcome - Dr. Louis Dale, <i>Conference Director and Principal Investigator, Alabama LSAMP</i>	
	Greetings - Dr. Carol Garrison, <i>President, The University of Alabama at Birmingham</i> Dr. Omnia El-Hakim, <i>Program Director, The National Science Foundation</i> Dr. A. James Hicks, <i>Program Director, The National Science Foundation</i>	
	Introduction of Keynote Speaker – Dr. Cheryl Dozier, <i>Co-Principal Investigator Georgia LSAMP</i>	
	Address - Dr. Anthony Tricoli, <i>President, Georgia Perimeter Community College</i>	
10:15-10:30 a.m.	Break	
10:30-11:45 a.m.	Presidents Panel	HUC Auditorium
	Dr. Rita Cepeda, <i>President, San Diego Mesa College</i> Dr. Charlene Dukes, <i>President, Prince George's Community College</i> Dr. Gwendolyn Joseph, <i>Vice President, Kentucky Community College System</i> Dr. Judy Merritt, <i>President, Jefferson State Community College</i>	
12:00-1:45 p.m.	Lunch	Great Hall
	Introduction of Speaker – Dr. Carolyn Braswell, <i>Co-Principal Investigator Alabama LSAMP</i>	
	Speaker- Dr. Malcolm Portera, <i>Chancellor, The University of Alabama System</i>	

- 2:00-3:00 p.m. **Best Practices Breakout Sessions** (Participant's Choice)
- Special Topics:**
- Making the Transition* **Great Hall Room A**
Moderator – Dr. Antonio Garcia, *Principal Investigator*
Western Alliance to Expand Student Opportunities
- Speaker - Dr. Ben Flores, *Principal Investigator*
The University of Texas System LSAMP
- Articulation Agreements* **Great Hall Room B**
Moderator - Dr. Clarence Lee, *Executive Director/Co-Principal Investigator*
Washington/Baltimore/Hampton/Road LSAMP
- Speaker - Dr. Charles Nash, *Vice Chancellor for Academic Affairs*
The University of Alabama System
- Financing the Transition* **Great Hall Room C**
Moderator – Dr. Marcia Williams, *Project Director*, North Carolina LSAMP
- Speaker - Ms. Kika Friend, *Program Director*, California LSAMP
- Recruitment of Community College Students* **Great Hall Room D**
Moderator - Dr. Anissa Evans Buckner, *Project Director*, Arkansas LSAMP
- Speakers – Dr. Philip Way, *Associate Provost for Undergraduate Programs*, The University of Alabama at Birmingham
Ms. Chenise Ryan, *Director of Undergraduate Admissions*
The University of Alabama at Birmingham
- 3:15-4:15 p.m. **General Session** (Reports from Breakout Sessions) **HUC Auditorium**
Moderator – Dr. Brent Gage, *Associate Provost for Enrollment Management*, The University of Alabama at Birmingham
- 4:15 p.m. **Networking Session/Free Time/Shuttle to Hotel**
- 6:00-7:30 p.m. **Dinner** **Hotel Rooms 1,2 & 3**
- Students Panel:** *Transition to Four Year Institutions – A Period of Adjustment?*
- Moderator - Dr. Adriel Johnson, Jr., *Site Coordinator*, Alabama LSAMP
Ms. Eva Gabriela Baylon, *Mechanical Engineering major*
The University of California, San Diego
Mr. Anthony Crutch, *Mechanical Engineering major*
The University of Alabama Huntsville
Ms. Lorra Hyland, *Genetics major*
The University of Alabama at Birmingham
Ms. Cynthia Wood, *Applied Mathematic major*
The University of California, San Diego

Tuesday, October 6, 2009

- 7:30 a.m. **Breakfast and Wrap-up (Conference Ends)**



Anthony Tricoli, Ed. D. (Keynote Speaker)

President
Georgia Perimeter College
Decatur, Georgia

Dr. Anthony Tricoli arrived at Georgia Perimeter College (GPC) in October 2006 as GPC's sixth president. From that moment, the Southern California transplant has been on a mission to make GPC the institution of first choice for Georgians and one of the best colleges in the country serving students' needs. With *student success* as his mantra and goal, he has led GPC on a path of rapid change and improvement. A new Office of Customer Service was established to ensure that services to students and other customers are provided in a professional, efficient, consistent and effective manner. GPC established a Transfer Admission Guarantee (TAG) agreement program with a growing list of four-year institutions including the University of Georgia, Georgia Tech, Oglethorpe University, The University of Alabama at Birmingham and other in-state and out-of-state public and private institutions. Now numbering 27, TAG allows students to complete core courses at GPC and receive a guarantee to begin upper division work at their chosen four-year institution. TAG opens the door for students who might view the trip as impossible. Prior to assuming the presidency of GPC, he served as president of West Hills College, Coalinga, California. He received his AA liberal arts degree from West Community College, B.A, Sociology from Whittier College, M.A, Education/ Counseling and Ed.D., College Leadership and Administration from Pepperdine University.



Rita Cepeda, Ph.D. (Presidents Panel)

President
San Diego Mesa College
San Diego, California

Dr. Rita Cepeda was named President of San Diego Mesa College in July 2005. Mesa is one of three colleges that form part of the San Diego Community College District which also includes San Diego City and Miramar. The district serves almost 100,000 students each semester through its three two-year colleges and six Continuing Education Centers. With 25,000 students, Mesa is the largest. As president of Mesa College, Dr. Cepeda is responsible for planning, organizing and implementing educational policy and procedures to support the mission of the institution to offer associate degrees and certificates in occupational programs that prepare students for entry-level jobs, and arts and sciences programs that transfer to four-year colleges and universities. Prior to coming to Mesa College, Dr. Cepeda was named to a two-member crisis intervention special team by the State Chancellor of Compton College. During the period of 1999 to 2004, Dr. Cepeda served as president of Santa Ana College. During her tenure at Santa Ana College, Dr. Cepeda became a vital part of the community. She earned a doctorate from the University of Southern California, the Master degree in Clinical Psychology and a Bachelor degree in Communications Disorders from California State University at Long Beach.



Charlene M. Dukes, Ph.D. (Presidents Panel)

President
Prince George's Community College
Largo, Maryland

Dr. Charlene M. Dukes is the eighth and first female president of Prince George's Community College and has twenty-seven years of progressive leadership experience and administrative responsibility in higher education. Her scope of knowledge includes: student development services; strategic and operational planning; financial management and budgeting; policy development; program administration and implementation; professional development and skills training; facilities planning and renovation and team building. She holds membership in a variety of professional organizations, including serving as a founder and lead faculty member for the Community College Student Development Leadership Institute under the auspices of the National Council on Student Development, an affiliate of the American Association of Community Colleges. From 2002 through 2006, she served on the Appointed Board of Education of Prince George's County and chaired the Student Support, Student Appeals, and Personnel Committees. In May 2007, she accepted an appointment from Governor Martin O'Malley to serve a three-year term on the Maryland State Board of Education and was elected in July 2009 to serve a one-year term as vice-chair of the Board. Dr. Dukes has a Bachelor of Science in Secondary Education with an English concentration from Indiana University of Pennsylvania and a Master and Doctorate in Administrative and Policy Studies from the University of Pittsburgh.



Gwendolyn Joseph, Ph.D. (Presidents Panel)

Vice President
Kentucky Community and Technical College System
Versailles, Kentucky

Dr. Gwendolyn G. Joseph has extensive work experience in employment and training programs, educational services, marketing and educational research and evaluation in the community college arena. In May 2006, Dr. Joseph joined the Kentucky Community and Technical College System (KCTCS) as vice president. Her functional area is organizational development and human resources. She provides leadership and direction for systemic change initiatives through strategic planning, cultural diversity, professional development and human resources. Dr. Joseph is a task-oriented individual who easily manages multiple priorities. Her professional assets include the ability to plan effectively, think creatively, conceptually and critically, facilitate and manage change and develop diverse collaborative relationships. She completed her doctorate in Educational Administration through the Community College Leadership Program at the University of Texas. Her leadership skills were further developed through participation in the Harvard Institutes for Higher Education/Leadership and Management in Education, the Expanding Leadership Diversity in Community College Initiative and the National Institute of Leadership Development.



Judy M. Merritt, Ph.D. (Presidents Panel)

President
Jefferson State Community College
Birmingham, Alabama

Dr. Judy Merritt was appointed President of Jefferson State Community College on December 1, 1979. This appointment marked the first time a woman had been appointed as president of a two-year college in Alabama. With the exception of a four-year assignment at Florida International University in Miami, Florida from 1975 to 1979, she has been associated with Jefferson State and its predecessor since 1965. During her tenure at Jefferson State, she has been active with a variety of regional and national organizations. She served a three-year term on the Board of Directors of the American Association of Community and Junior Colleges and a two-year term on the Executive Council of the Commission on Colleges of the Southern Association of Colleges and Schools. She has been associated with a number of community and civic organizations. Dr. Merritt served as Chair of the Birmingham Chamber of Commerce in 1993. She served on the Board of the Business Council of Alabama and the Corporate Board of SouthTrust Bank. She also serves on the Corporate Boards for Energen Corporation. She received her B.S., Secondary Education, M.A., Counseling and Guidance and Ph.D. Educational Administration from The University of Alabama.



Malcolm Portera, Ph.D. (Luncheon Speaker)

Chancellor
University of Alabama System
Tuscaloosa, Alabama

Dr. Malcolm Portera is Chief Executive Officer of The University of Alabama System, which is Alabama's largest higher education enterprise. Comprised of doctoral research universities in Tuscaloosa, Birmingham and Huntsville, as well as the acclaimed UAB Health System, the UA System budget exceeds \$4.3 billion, with more than 50,000 students, 25,000 employees, and an economic impact surpassing \$5.8 billion. Prior to his current tenure as Chancellor of the UA System, Dr. Portera was the 16th president of Mississippi State University. His administrative career began in the 1970s when he worked in The University of Alabama's offices of academic affairs and research and was executive assistant to two presidents before becoming a vice president. Subsequently, he was Vice Chancellor for External Affairs of The University of Alabama System. Upon retiring from that position in 1996, he launched a successful business development and strategic planning company. His long history of involvement in industrial development has contributed to the location of \$5 billion of capital investment in the Southeast. Former chair of the Council of Presidents of the Southeastern Universities Research Association, and vice chair of the Alabama Research Alliance, he serves on several corporate boards and economic development agencies and has received numerous awards and recognitions. Dr. Portera received a Bachelor degree from Mississippi State University and earned his M.A. degree in Political Science there. A Dean's Scholar Fellow, he holds a Ph.D. in Political Science from The University of Alabama.



Benjamin Flores, Ph.D. (Breakout Session Speaker)

**Professor and Principal Investigator
University of Texas El Paso LSAMP
El Paso, Texas**

Dr. Benjamin C. Flores joined the faculty of the University of Texas at El Paso (UTEP) in 1990 after receiving his Ph.D. in Electrical Engineering from Arizona State University. He is Professor of Electrical and Computer Engineering and has held several administrative positions including Associate Dean for Graduate Studies for the College of Engineering, Chair of the Electrical and Computer Engineering Department and Interim Chair of the Computer Science Department. Currently, he is director of three NSF funded programs: the UT System Louis Stokes Alliance for Minority Participation, the Bridge to the Doctorate Program and the STEM Talent Expansion Project. Dr. Flores is a member of the Electrical Engineering Honor Society (*Eta Kappa Nu*) and the Engineering Honor Society (*Tau Beta Pi*). He is counselor of the UTEP Chapter of the Electrical Engineering Honor Society and founding counselor of the UTEP Chapter of the National Society of Black Engineers. He was recently nominated to the *Presidential Award for Excellence in Science, Mathematics, and Engineering Mentorship* (2008) and the *Bernard M. Gordon Prize for Innovation in Engineering and Technology Education Award* (2008).



Charles Ray Nash, Ed. D. (Breakout Session Speaker)

**Vice Chancellor for Academic Affairs
The University of Alabama System
Tuscaloosa, Alabama**

Dr. Charles R. Nash has served as Vice Chancellor for Academic Affairs for The University of Alabama System since 1992. As a senior academic officer in the System, he is the chief liaison to academic, institutional research and planning officials at The University of Alabama, The University of Alabama at Birmingham, and The University of Alabama in Huntsville. He advises the chancellor on all academic policy matters and provides primary leadership in program planning, development and review. He is the liaison officer for the UA System to the Alabama Department of Education, the Alabama Department of Post Secondary Education and the Alabama Commission on Higher Education. Prior to assuming his current position, Dr. Nash served as Associate Executive Director for the Commission on Colleges of the Southern Association of Colleges and Schools (SACS/COC). He has also held the position of Dean of the School of Education at Armstrong Atlantic State University (GA) and Director of Special Studies and Assistant Vice Chancellor for Academic Development for the Board of Regents of the University System of Georgia. He serves on the Alabama Articulation and General Studies Committee (AGSC/STARS). He holds a Bachelor degree from Jackson (MS) State University, the Master degree from the University of Southern Mississippi, a Doctoral degree from Mississippi State University and has studied at Southeastern Louisiana, Stanford and Harvard Universities.



Kika Friend (Breakout Session Speaker)

**Program Director, CAMP
University of California, Irvine**

Ms. Kika Friend is responsible for planning, managing and evaluating the California Alliance for Minority participation (CAMP) Program at the University of California, Irvine with approximately 1,100 minority science undergraduates in the disciplines of engineering, biological sciences, physical sciences and information & computer science. As director, she is directly responsible for preparing annual science programs, planning and developing strategies to meet system wide, statewide and campus goals. She is also responsible for annual proposed and operating grant budgets and responsible for ensuring the successful coordination of CAMP activities with the following targeted underrepresented minority students and communities; postsecondary institutions including UC campuses, the CSU systems, private colleges, community colleges, pre-collegiate developmental programs, subject matter projects and the business sector. In this position, she assists with the CAMP Statewide Evaluation Team in the evaluation of overall CAMP efforts and makes recommendation to the Assistant Vice Chancellor of Student Services for changes.

She holds the Master of Arts degree in Clinical Psychology from Antioch University and is a Clinical Psychology doctoral candidate at Pacifica Graduate Institute.



Philip K. Way, Ed. D. (Breakout Session Speaker)

**Associate Provost for Undergraduate Programs
The University of Alabama at Birmingham
Birmingham, Alabama**

Dr. Philip K. Way is the Associate Provost for Undergraduate Programs at UAB. He has responsibility for university-wide programs and functions including the enhancement of the Core Curriculum, the Honors Academy, Study Away, Service Learning, Undergraduate Research, Student Academic Success, Exploratory Advising and Academic Programs and Policy. He is a professor in the School of Business and co-leads the development of academic relationships between UAB and community colleges. Prior to coming to UAB, he was Director of the Honors Scholars Program at the University of Cincinnati.

He was educated in economics and human resource management at the University of Cambridge and the University of Warwick in the UK and at Harvard University.



Chenise Ryan (Breakout Session Speaker)

**Director of Undergraduate Admission
The University of Alabama at Birmingham
Birmingham, Alabama**

Ms. Chenise Ryan has been the Director of Undergraduate Admission at UAB for the last ten years. She provides strategic leadership and oversees all recruitment activities, including those aimed at transfer students. She transferred to UAB as an undergraduate, earned her Bachelor degree in Communications/Public Relations and Master degree in Educational Leadership. In addition, Ms. Ryan is the co-chair of the Strategic Enrollment Management Work Group on Transfer Students at UAB.



Eva Gabriel Baylon (Students Panel)

**Mechanical Engineering Major
University of California San Diego
San Diego, California**

Ms. Eva Baylon started her college education in a community college because she did not fulfill all the requirements for admission to a university as a freshman. There was no way she and her family could afford paying for college at a public institution. She attended San Diego City College for two years before transferring to the University of California, San Diego, where she is currently starting her final year as a mechanical engineering student. She is part of the California Louis Stokes Alliance for Minority Participation (CAMP) and the National Action Council for Minorities in Engineering (NACME). After the completion of her Bachelor degree in Engineering, she plans to earn a Ph.D. in Material Science.



Anthony Crutch (Students Panel)

**Mechanical Engineering Major
University of Alabama in Huntsville
Huntsville, Alabama**

Mr. Anthony Crutch is a LSAMP Scholar and a graduating senior in mechanical engineering who transferred from Calhoun Community College in Decatur, Alabama, to the University of Alabama in Huntsville. While at Calhoun College, Mr. Crutch received three degrees: associates of applied science in design drafting technology (Magna Cum Laude), certificate in residential development and planning and a certificate in computer aided drafting. For the past year and a half, he has been a co-op student working in Birmingham with Southern Company where he recently accepted a full time engineering position (effective upon graduation in December 2009). He plans to continue his education by taking graduate level courses in addition to his employment.



Lorra Hyland (Students Panel)

Genetics Major
The University of Alabama at Birmingham
Birmingham, Alabama

Ms. Lorra Hyland is a third-year graduate student in the genetics and genomics science at The University of Alabama at Birmingham. Her research focuses on insulin resistance research and the mechanisms of development of acute insulin resistance following injury or infection via the activation of stress pathways. She attended Miami Dade Community College where she graduated with an Associate in Arts degree with honors. She transferred to Barry University in the fall of 2005 as a MARC Scholar and received a Bachelor of Science in Biology in the spring of 2007.

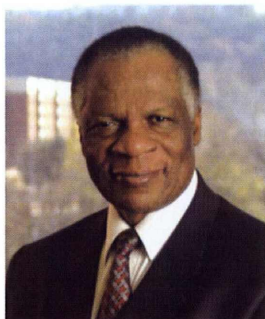


Cynthia Wood (Students Panel)

Applied Mathematics Major
University of California San Diego
San Diego, California

Ms. Cynthia Wood is a transfer student attending the University of California, San Diego (UCSD), majoring in applied mathematics. After graduating from high school in Mexico, she immigrated to the United States and began her college career at San Diego City College (SDCC). She developed a deep appreciation for mathematics and sciences in general and chose mathematics as her specific field of study. Her career goals are to represent her gender and ethnicity in the field of mathematics and to serve as an advocate for diversity in science, mathematics and engineering.

Other Conference Contributors



Louis Dale Ph.D.

Vice President for Equity and Diversity and Alabama LSAMP
Principal Investigator
The University of Alabama at Birmingham
Birmingham, Alabama

Dr. Louis Dale was named to the newly created position of Vice President for Equity and Diversity at UAB in July of 2003. He is UAB's first African-American vice president. Prior to this position, he served as associate vice president for academic affairs and associate dean of the School of Natural Sciences and Mathematics. His research papers appear in refereed national and international mathematic journals and he has written two books. He received his B.S. degree from Miles College, M.S. degree from Atlanta University and Ph.D. degree from The University of Alabama, all in Mathematics. In 2003, he received the Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring.



Carolyn Braswell, Ed. D.

**Associate Vice President for Equity and Diversity and Co-Principal Investigator, Alabama LSAMP
The University of Alabama at Birmingham
Birmingham, Alabama**

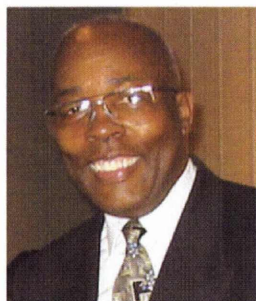
Dr. Carolyn Braswell has been working with the Alabama LSAMP program since 1997. She is responsible for the managing the day-to-day operations of the alliance and collecting annual report data. She implemented a student-to student mentoring program for Alabama LSAMP Scholars. She directs the Alabama LSAMP Summer Bridge program and the annual Alabama LSAMP Research Conference. Prior to her position at UAB, she served as Personnel Coordinator and Program Specialist for the Birmingham Public Schools. She received her B.A. degree from Samford University, her M.S. from The University of Alabama at Birmingham and Ed. D. degree from The University of Alabama.



Cheryl D. Dozier, Ph.D.

**Associate Provost and Chief Diversity Officer
Peach State LSAMP Co-Principal Investigator
University of Georgia
Athens, Georgia**

Dr. Cheryl Davenport Dozier is the Associate Provost and Chief Diversity Officer for Institutional Diversity at the University of Georgia (UGA). She is the lead co-principal investigator for the Peach State LSAMP, a \$4.9M grant funded by the National Science Foundation (NSF). She is a tenured associate professor in the School of Social Work and the director of the Inter-Disciplinary Ghana Study Abroad Program. Cheryl received her B.A. degree from Fairleigh Dickinson University, M.S. SW from Atlanta University and Doctorate from Hunter College, the City University of New York.



Clarence M. Lee, Ph.D.

**Professor of Biology and Executive Director
Washington/Baltimore/Hampton Road LSAMP
Howard University
Washington, DC**

Dr. Clarence M. Lee is a professor of biology and executive director of the Washington/Baltimore/Hampton Road LSAMP program, a position he has held since 1993. Prior to assuming this position, he served as Dean of the College of Arts and Sciences and Chairman of the Department of Zoology. He is an active researcher and has directed M.S. and Ph.D. research of 48 graduate students in the Department of Zoology/Biology from 1971 to 2009. He received his B.S. degree from Tuskegee University, M.S. from University of North Carolina at Chapel Hill and Ph.D. degree from Howard University



Antonio Garcia, Ph.D.

**Endowed Chair in Bioengineering and Principal Investigator
Western Alliance to Expand Student Opportunity (WAESO)
Arizona State University
Tempe, Arizona**

Dr. Antonio Garcia holds the ASU Foundation Endowed Chair in Bioengineering and maintains an active research program in the area of bionanotechnology with an emphasis on the application of surface chemistry for personalized medicine. He is associate director of the Hispanic Research Center which provides the administrative support for a new center for Engineering and Translation Biomedicine. His research has led to over 147 journal publications and presentations at regional, national and international conferences. His work with colleagues was featured in *Science News* (August 2004), and his work on nanoparticle research was featured on the cover of *Advanced Materials* (November 2008) and *Science Daily* (2008).



Marcia Williams, Ph.D.

**Director of Sponsored Programs and Project Director
North Carolina LSAMP
North Carolina A&T State University
Greensborough, North Carolina**

Dr. Marcia F. Williams is the Director of Sponsored Programs and Project Director for the NC Louis Stokes Alliance for Minority Participation (NCLSAMP) program at North Carolina A&T State University. She has over 18 years of experience in administration, including the areas of program management and strategic planning. She received her Bachelor degree from North Carolina A&T State University, Master of Business Administration from the Babcock Graduate School of Management at Wake Forest University and a Ph.D. in Interdisciplinary Leadership Studies from North Carolina A&T State University.



Anissa Buckner, Ph.D.

**Associate Professor and Project Director
Arkansas LSAMP
University of Arkansas at Pine Bluff
Pine Bluff, Arkansas**

Dr. Anissa Buckner is an associate professor of biology and project director for the Arkansas LSAMP at the University of Arkansas at Pine Bluff. Prior to this position, she was an assistant professor in the department of ophthalmology at the University of Arkansas for Medical Sciences in Little Rock, AR. She received her undergraduate degree from the University of Arkansas at Pine Bluff and obtained her Doctorate in Biological Sciences from Purdue University, West Lafayette, Indiana. She has completed postdoctoral work in Medicinal Chemistry and Molecular Pharmacology as well as Ocular Virology.



Brent Gage, Ph.D.

**Associate Provost for Enrollment Management
The University of Alabama at Birmingham
Birmingham, Alabama**

Dr. Brent Gage serves as the Associate Provost for Enrollment Management. In this role, Dr. Gage oversees the admissions, financial aid, orientation and international programs. He works with the academic deans and the Office of the Provost to facilitate the university's enrollment functions in an effort to achieve institutional goals. Before arriving at UAB, he served as the assistant vice provost for enrollment services at Northern Illinois University (NIU) and as the associate dean of undergraduate admissions at the University of Nebraska-Lincoln. He was a key player in the facilitation of a retention taskforce and was instrumental in developing new branding and marketing strategies. He is a senior consultant for the American Association of Collegiate Registrars and Admission Officers (AACRAO) in which he has consulted on a variety of enrollment management issues both in the United States and abroad.



Adriel D. Johnson, Sr., Ph.D.

**Associate Professor of Biological Sciences and Site Coordinator
Alabama LSAMP
University of Alabama in Huntsville
Huntsville, Alabama**

Dr. Adriel D. Johnson, Sr., serves as the The University of Alabama in Huntsville's site coordinator for the LSAMP and the Alliance for Graduate Education and the Professoriate programs. His present research involves aspects of gastrointestinal physiology that seeks to identify methods of beneficially altering digestive function. He serves as a research mentor for many STEM students. He received his Ph. D. from North Carolina State University and is currently an Associate Professor of Biological Sciences at the University of Alabama in Huntsville.

Registered Participants

Alabama

- Dr. Louis Dale, *Vice President and Principal Investigator, The University of Alabama at Birmingham*
- Dr. Carolyn Braswell, *Associate Vice President and Co-Principal Investigator, The University of Alabama at Birmingham*
- Dr. Bruce Crawford, *HBCU-UP PI, Lawson State Community College*
- Dr. Cynthia Anthony, *College Representative, Lawson State Community College*

Arkansas

- Dr. Anissa E. Buckner, *Project Director, University of Arkansas at Pine Bluff*
- Dr. Kaleybra M. Morehead, *Associate Vice President for College Affairs, Southeast Arkansas College*

California	Dr. Derek Dunn-Rankin, <i>Co-Project Director, University of California, Irvine</i> Marjorie DeMartino, <i>Co-Project Director, University of California, Irvine</i> Dr. Alyson Ponomarenko, <i>San Diego City College</i>
Colorado	Dr. Ernie Chavez, <i>Co-Principal Investigator, Colorado State University</i> Dr. Harry S. Mills, <i>Site Coordinator, AIMS Community College</i>
Georgia	Ms. Brenda Tillman, <i>Program Manager, Clark Atlanta University</i> Dr. Abe Ojo, <i>Assistant Professor, Atlanta Metropolitan Community College</i>
Greater Philadelphia	Ms. Veniece Keene, <i>Project Coordinator, Drexel University</i> Mr. Stephen R. Cox, <i>Co-Principal Investigator and Project Director, Drexel University</i> Dr. Linda Powell, <i>Professor/Dept. Chair Biology, Community College of Philadelphia</i>
HBCU-UP	Dr. Margaret W. Curtis, <i>Executive Director, Bennett College for Women</i> Ms. Sharice Adams, <i>Data Coordinator, Bennett College for Women</i>
Houston	Mr. Bartlett M. Sheinberg, <i>Center Director, West Houston Center/Houston Community College</i>
Illinois	Ms. Lezlie J. Thompson, <i>Associate Director, Chicago State University</i> Mr. Austin Ferguson, <i>Professor, Olive-Harvey Community College</i>
Indigenous	Dr. Herbert Schroeder, <i>ANSEP Executive Director, University of Alaska Anchorage</i> Ms. Mary Pete, <i>Director, Kuskokwim Campus</i>
Kentucky/ West Virginia	Dr. Ingris St. Omer, <i>Assistant Professor, University of Kentucky</i> Ms. Charlene Walker, <i>Vice President, Bluegrass Community and Technical College</i> Ms. Dedriell Taylor, <i>Assistant Director, West Virginia State University</i>
Louisiana	Dr. Diola Bagyoko, <i>Project Director, Southern University and A&M College</i> Mr. Warner K. Brown, <i>Campus Coordinator, Southern University-Shreveport</i>
Michigan	Dr. Levi T. Thompson, <i>Project Director, University of Michigan</i> Ms. Elaine Dowell, <i>Program Manager, University of Michigan</i> Mr. Dilip Das, <i>Special Counsel, University of Michigan</i> Dr. Granville Lee, <i>Dean, Washtenaw Community College</i>
New Mexico	Dr. Delia J. Calles-Rosales, <i>Co-Director AMP, New Mexico State University</i>
North Carolina	Dr. Marcia F. Williams, <i>Project Director, North Carolina A&T State University</i> Dr. Jacqueline Greenlee, <i>Director, Organizational Development, Guilford Technical Community College</i> Dr. Yvette Underdue-Murph, <i>Associate Vice Chancellor for Academic Affairs, North Carolina A&T State University</i>
Northeast	Ms. Susan Bronstein, <i>Director, Learning Resource Center, University of Massachusetts-Amherst</i>
New York City	Dr. Louise Squitieri, <i>Co-Project Director, City College of New York</i> Dr. Sadie Bragg, <i>Senior Vice President for Academic Affairs, Bronx Community College</i>

- Oklahoma** Dr. A. Gordon Emslie, *Associate Vice President for Research and Dean, Graduate School, Oklahoma State University*
Chris Lindley, *Enrollment Manager/Director and CCR, Seminole State College*
- Peach State** Dr. Cheryl D. Dozier, *Associate Provost and Lead Co-Principal Investigator*
Dr. Betty Molloy, *Assistant Vice President, Academic Affairs, Georgia Perimeter College*
Ms. Margaret Major, *Community College Representative, Georgia Perimeter College*
Ms. Pamela Legett-Robinson, *Community College Representative, Georgia Perimeter College*
- South Carolina** Dr. Judith Salley, *Executive Director of LS-SCAMP, South Carolina State University*
Mr. Antonio Boyle, *Assistant Vice President for Enrollment Management, South Carolina State University*
- Texas** Ms. Shannon Walton, *Associate Director, Texas A&M University*
Dr. Jess T. Dowdy, *Professor, Texas A&M University*
- University System of Maryland** Mr. LaMont F. Toliver, *Director-Scholars Program, University of Maryland Baltimore County*
Ms. Danielle Strand, *STEM Learning Coordinator, Anne Arundel Community College*
- Upstate (New York)** Dr. Eileen Stempel, *Associate Dean, Syracuse University*
Dr. Frank P. Rinehart, *Dean of Science, Health and Business, Monroe Community College*
- Urban Mass LSAMP** Mr. Marshall Milner, *Program Director, University of Massachusetts-Boston*
Ms. Katherine Gustafson, *LSAMP Site Coordinator, Bunker Hill Community College*
Dr. Joan Becker, *Vice Provost Academic Support Services, University of Massachusetts-Boston*
- UT System** Dr. Benjamin C. Flores, *Principal Investigator and Professor, University of Texas-El Paso*
Dr. David Chavera, *Professor, San Antonio College*
- Virginia/ North Carolina** Dr. Marcus L. Martin, *Interim Vice President and Chief Officer for Diversity and Equity, University of Virginia*
Ms. Carolyn Valles, *Co-Principal Investigator, University of Virginia*
Dean Patricia Taylor, *Mathematics, Thomas Nelson Community College*
- WAESO** Dr. Antonio A. Garcia, *Principal Investigator, Arizona State University*
Dr. Maria Reyes, *Associate Dean, Estrella Mountain Community College*
- WBHR** Dr. Clarence M. Lee, *Executive Director and Co-Principal Investigator, Howard University*
Dr. Christine Barrow, *Director STEM Resource Center, Prince George's County Community College*
- Wisconsin** Dr. Manuela Romero, *Executive Director, The University of Wisconsin-Madison*
Dr. Greg Lampe, *Provost and Vice Chancellor for Academic Affairs, University of Wisconsin Colleges*

Alabama LSAMP Partners

- ACHE** Alabama Commission on Higher Education, Dr. Paul B. Mohr, Sr., *Director of Special Programs*
- Alabama LSAMP Institutions**
- Alabama A&M University**, Dr. Jacqueline Johnson, *Site Coordinator*, Dr. Lloyd Walker, *Interim Associate Provost Undergraduate Studies*, Mr. Jeffery Burgin, *Interim Vice President of Student Affairs*
- Auburn University**, Dr. Overtoun Jenda, *Site Coordinator*
- Oakwood University**, Dr. Kenneth Lai Hing, *Site Coordinator*
- Talladega College**, Dr. Leonard Cole, *Site Coordinator*
- The University of Alabama**, Dr. Viola L. Acoff, *Site Coordinator*, Dr. Robert Olin, *Dean, Arts and Sciences*, Dr. Luoheng Han, *Associate Dean, Arts and Sciences*
- Dr. Jimmy Williams, *Associate Dean, Arts and Sciences*
- The University of Alabama at Birmingham**, Dr. Brent Gage, *Associate Provost-Enrollment Management*, Ms. Denise Bruns, *Associate Vice President- Enrollment Management*, Ms. Cynthia Scott, *Director of Minority Recruitment and Retention*
- Tuskegee University**, Dr. Herman Windham, *Site Coordinator*
- University of Alabama Huntsville**, Dr. Adriel D. Johnson, Sr. *Site Coordinator*
- Dr. Delois Smith, *Vice President for Diversity and Student Support Services*
- Dr. Scott Walter, *Dean of Students*
- University of South Alabama**, Dr. Alexandra Stenson, *Site Coordinator*
- Dr. James E. Laier, *Associate Dean of Engineering*
- Other Institutions**
- University of Montevallo**, Dr. Mary Beth Armstrong, *Dean, College of Arts/Physics*
- Dr. Kevin Hope, *Assistant Professor, Physics*
- University of West Alabama** Mr. Richard Hester, *Director of Admissions*, Ms. Jessica Hynds, *Admissions Counselor*, Dr. Thomas Ratkovich, *Chair Department of Mathematics*
- Community Colleges**
- Bevill State Community College**, Ms. Melissa Stowe, *Assistant to the Dean*
- Central Alabama Community College**, Mr. Michael G. Mann, *Division Chair Technical Division and Instructor*
- Faulkner State Community College**, Mr. Mike Nikolakis, *Dean, Student Services*, Ms. Lena Dexter, *Dean, Federal Programs*
- Gadsden State Community College**, Mr. Carl Byers, Jr., *Campus Director*
- Lurleen Wallace Community College**, Dr. Judy Hall, *Dean of Student Affairs*
- Ms. Fran Davidson, *Counselor*
- Shelton Community College**, Dr. Mark Heinrich, *President*, Dr. Fran Turner *Associate Dean of Student Support*
- Snead State Community College**, Dr. Robert Exley, *President*
- Dr. Larry Miller, *Chief Academic Officer*
- Southern Union State Community College**, Mr. Jeremy Taunton, *Director, Technical Advising/Recruiting*
- Wallace State Community College**, Dr. Phillip Cleveland, *Dean Technical Education*, Dr. Elijah Pugh, *Professor, Chemistry*