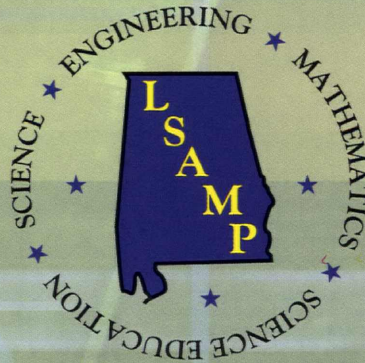


The National Science Foundation

Louis Stokes Alliances for Minority Participation

**Alabama
Louis
Stokes
Alliance for
Minority
Participation**



**Bridge
to the
Doctorate
II
Program
2004**

Partner Institutions

Lead Institution: The University of Alabama at Birmingham;

Alabama A&M University, Alabama State University, Auburn University, Miles College, Oakwood College, Stillman College, Talladega College, Tougaloo College, Tuskegee University, The University of Alabama and The University of Alabama in Huntsville

January 2005

The Alabama Bridge to the Doctorate II Program is an outgrowth of the “Dear Colleague Letter” (NSF 04-038) from Dr. Judith Ramaley, Assistant Director, Directorate for Education and Human Resources (EHR). The NSF Bridge to the Doctorate Program is housed in the Division of Human Resource Development (HRD) headed by Acting Director Dr. Bernice Anderson and directed by Dr. Arthur J. Hicks, Program Director for Louis Stokes Alliances for Minority Participation (LSAMP). Dr. Arden L. Bement, Jr. is Acting Director of the National Science Foundation



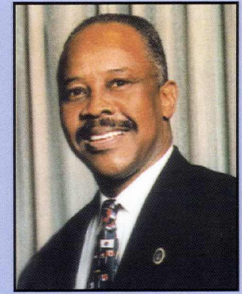
Dr. Arden L. Bement, Jr.



Dr. Judith Ramaley



Dr. Bernice Anderson



Dr. Arthur J. Hicks

The project is designed to be a transitional effort for LSAMP students earning undergraduate degrees in science, technology, engineering and mathematics. Students meeting the criteria are eligible to participate in this activity. The Alabama Louis Stokes Alliance for Minority Participation (LSAMP) is currently in Phase III and has an infrastructure that is uniquely positioned to implement a “Bridge to the Doctorate” Program as described in this letter. Moreover, Alabama LSAMP has ten students currently participating successfully in a BD Program and has secured the experience necessary to implement a model program.

The University of Alabama in Huntsville will serve as the second institutional site for the Alabama Bridge to the Doctorate Program beginning with the 2004 Fall Term. The university will join Auburn University where the first BD Program is currently administered. The selection of the University of Alabama in Huntsville, located in north Alabama, provides a good distribution for the Alabama programs, since Auburn University is located in south Alabama.

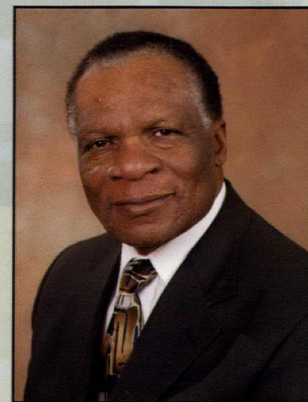
The University of Alabama at Birmingham under the leadership of President Carol Garrison is the lead institution for Alabama LSAMP. The principal investigator for the alliance is Dr. Louis Dale, Vice President for Equity and Diversity.



Dr. Carol Z. Garrison

The University of Alabama at Birmingham is pleased to support this outstanding bridge program for underrepresented minority undergraduate students in Alabama. A large number of graduate programs, an excellent graduate faculty, and state of the art research facilities are available to students recruited to our university from this program.

Our experience with the BD program during the first year of support has shown that this program is attractive to underrepresented minority students. Given that students' financial earning power is increased by the acquisition of a graduate degree, it is becoming increasingly easier for students to make the decision to pursue graduate studies. The BD Program provides an excellent incentive for highly qualified students to pursue graduate studies with a doctoral degree as a goal.

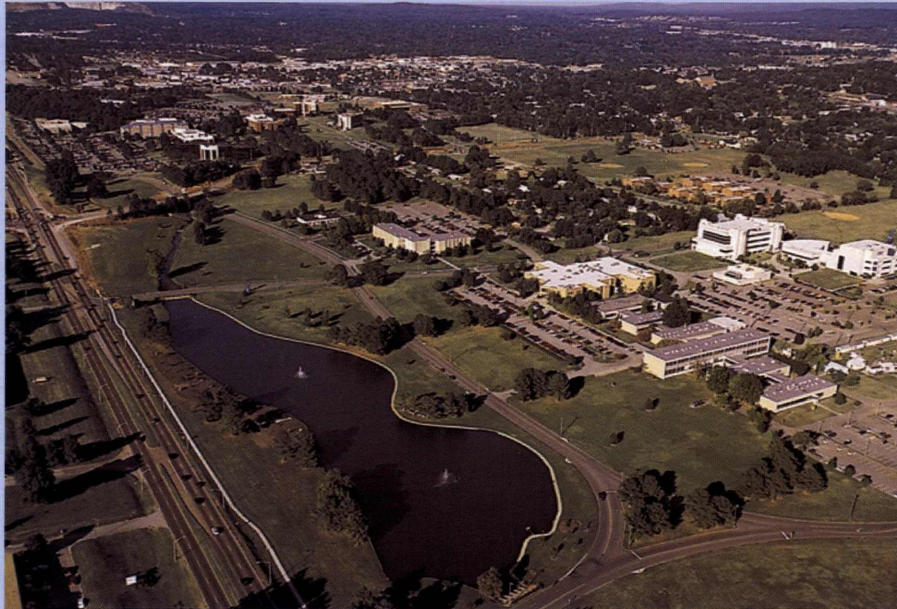


Dr. Louis Dale

The University of Alabama in Huntsville was selected as the Alabama Bridge to the Doctorate site for 2005 because of its graduate programs, institutional commitment, and student cost-sharing proposals.

Alabama Bridge to the Doctorate II

The University of Alabama in Huntsville (UAH) is nationally recognized for outstanding undergraduate and graduate science and technology education. Uniquely located in Cummings Research Park, a fundamental mission for UAH is to be a leader in the southeastern United States for high quality education in disciplines such as science, technology, engineering and mathematics (STEM).



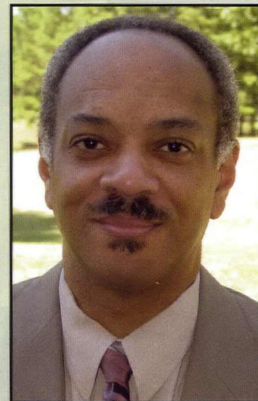
The UAH campus from the air.

UAH has made the commitment to increase the number of minority students receiving baccalaureate and graduate degrees as an important priority at the university. UAH is a member of the Phase III Alabama Louis Stokes Alliance for Minority Participation and the Alliance for Graduate Education and the Professoriate programs supported by the National Science Foundation. These two Alabama program alliances are composed of 12 institutions: The University of Alabama at Birmingham (lead institution); Miles College; Alabama A & M University; Oakwood College; University of Alabama in Huntsville; Stillman College; University of Alabama; Talladega College; Tuskegee University, Auburn University, Alabama State University and Tougaloo College. They serve

to increase the number of underrepresented students receiving baccalaureate and graduate degrees in the STEM disciplines. UAH is a research institution with graduate programs fostering a creative learning experience while further enhancing intellectual capabilities through intensive studies. *UAH offers 26 master's degrees (18 in STEM areas), 12 doctoral degrees (all in STEM areas), six fifth year programs (four in STEM areas), and seven non-degree graduate certificates.*



UAH President
Dr. Frank Franz
Professor of Physics;
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118 Madison hall
301 Sparkman Drive
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(256) 824-6340
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UAH Principal Investigator
Dr. Adriel D. Johnson, Sr.
Associate Professor of
Biological Sciences
Department of Biological
Sciences
Wilson Hall 142
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johnsona@email.uab.edu

As evidence of UAH's commitment to the Bridge to the Doctorate initiative, the institutional budgets for academic years 2004-05 and 2005-06 will include additional funds to support two Alabama resident students with tuition, fees, health insurance and a stipend of \$30,000 per year for the two-year period. Additionally, with the National Science Foundation's support of twelve students admitted to the Bridge Program at UAH, a total of fourteen Bridge to the Doctorate students will be supported. Tuition for out-of-state students is twice that for in-state students. UAH has agreed to provide the tuition difference for at most two out-of state students, if chosen. An executive management committee will be formed which will assist with admissions, faculty mentors, departmental/college commitments, and other important administrative details. The executive management committee will include representation from the Provosts' Office, Office of Graduate Studies, Office of the Dean for the College of Science, the Office of the Dean for the College of Engineering, the Office of Sponsored Programs and the Office of Contracts and Grants Accounting.

University of Alabama in Huntsville Bridge to the Doctorate Students

Isa J. Alexander

Bachelor of Science: Animal Science
Alabama A & M University 2002
Graduate School Major: Biological Sciences
I've always wanted to pursue a profession in the medical field i.e. research, nursing, human medicine or veterinary.



Khalid W. Holmes

Bachelor of Science: Biology
Alabama State University 2004
Graduate School Major: Biological Sciences
I plan to further my education by receiving a Ph.D. in physiology and eventually become a cosmetic dentist.



Birvid D. Atkins-Warner

Bachelor of Science: Computer Science
Stillman College 1998
Graduate School Major: Computer Science
I plan to obtain a master's degree in Computer Science or Software Engineering, a Ph.D. in Computer Science, and secure a career in research and teaching at a university.



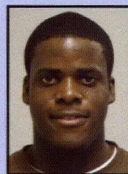
Veronica M. Hunter

Bachelor of Science: Computer Science
University of Alabama 2004
Graduate School Major: Computer Science
I want to earn a Ph.D. in Computer Science and utilize my skills and knowledge to enhance technology through research; become an instructor inclined to motivate others to achieve in scientific areas.



Michael D. Francis

Bachelor of Science: Mechanical Engineering
University of Alabama in: Huntsville 2004
Graduate School Major: Mechanical Engineering
My plans are to work in the rapid prototyping and manufacturing industry in preparation of owning my own company.



Melody Y. Jackson

Bachelor of Science: Mathematics
Alabama State University 2004
Graduate School Major: Mathematics
I have plans to pursue a Ph..D in Mathematics and teach at the collegiate level.



Pierce J. Gibbs

Bachelor of Science: Business Administration
Florida A & M University 2001
Graduate School Major: Biological Sciences
I am going into forensic science. I am also considering the Ph.D. in Forensic Science in the future.



Justin M. Kelly

Bachelor of Science: Computer Science
Oakwood College 2004
Graduate School Major: Computer Science
I plan to become an entrepreneur in computer entertainment and an innovator of associated technologies.



Kimberly A. Green

Bachelor of Science: Biological Sciences
University of Alabama in Huntsville 2002
Graduate School Major: Biological Sciences
I would like to enter a M.D./Ph.D. program and have a professional career as a physician and scientist.



John W. Martin, III

Bachelor of Science: Mechanical Engineering
Alabama A & M University 2004
Graduate School Major: Aerospace Engineering
I plan to earn a doctoral degree, get a professional engineering license, work at NASA Marshall Space Flight Center, and have a rocket business on the side.



Christopher D. Harris

Bachelor of Science: Physics

Tougaloo University 2004

Graduate School Major: Mechanical &
Aerospace Engineering

*I would like to work for a major automotive company
and help to design safer and energy efficient transportation.*

**Eileen Rojas**

Bachelor of Science: Chemical Engineering

University of Alabama in Huntsville 2004

Graduate School Major: Chemical
Engineering

*My goal is to work in industry as a chemical engineer
and later on, teach.*

**Victor M. Harris**

Bachelor of Science: Biology

Langston University 2004

Graduate School Major: Biological Sciences

*I want to research the use of nutrition as an
alternative to medication, essentially finding
better ways for the body to heal itself of disease.*

**Tameka M. Walker**

Bachelor of Science: Chemistry

Alabama State University 2004

Graduate School Major: Chemistry

*I plan to pursue professional school or to
further my studies in drug design to obtain a PhD.*



2004 Alabama Bridge to the Doctorate Students – Auburn University

Angela Bell, Bachelor of Science: Chemistry; Alabama State University 2002, Graduate School Major: Chemistry

Carma Cook, Bachelor of Science: Chemistry, Auburn University 1993, Graduate School Major: Chemistry

Derek Forston, Bachelor of Science: Biomedical Sciences, Auburn University 2003, Graduate School Major: Biological Sciences

Iris Hill, Bachelor of Science: Zoology, Auburn University 2003, Graduate School Major: Conservation Biology

Angela Peterson, Bachelor of Science: Mathematics, Alabama State University; 2001, Graduate School Major: Mathematics

LaToya Peterson, Bachelor of Science: Mathematics, Talladega College; 2003, Graduate School Major: Mathematics

Carl Pettis, Bachelor of Science: Mathematics, Alabama State University 2001, Graduate School Major: Mathematics

Charmaine Porter, Bachelor of Science: Microbiology, Auburn University; 2003, Graduate School Major: Microbiology

Jana Smith, Bachelor of Science: Biology, University of Missouri – St. Louis 2000, Graduate School Major: Molecular Biology

Michele Williams, Bachelor of Science: Computer Science, Bowie State University 2003, Graduate School Major: Computer Science

2004-2005 Bridge to the Doctorate Students

Participants by Discipline

<u>Biology/Biological Sciences (8)</u>	<u>BD Site</u>	<u>Undergraduate Institution</u>	<u>Total</u>
Alexander, Isa Campbell, Stacy Green, Kimberly A. Gibbs, Pierce Harris, Victor Hill, Iris Holmes Khalid Porter, Charmaine	UAH Auburn UAH UAH UAH Auburn UAH Auburn	Alabama A&M University Tuskegee University UAH Florida A&M University Langston University Auburn University Alabama State University Auburn University	8
<u>Chemistry (4)</u> Bell, Angela Cook, Carma Savage, Sonya Walker, Tameka	Auburn Auburn Auburn UAH	Alabama State University Auburn University Alabama State University Alabama State University	4
<u>Computer Science (3)</u> Atkins-Warner, Birvid Hunter, Veronica Kelley, Justin	UAH UAH UAH	Stillman College The University of Alabama Oakwood College	3
<u>Engineering (6)</u> Francis, Michael Harris, Christopher D. Harris, Nicole Martin, John W. Rojas, Eileen Williams, Michele	UAH UAH Auburn UAH UAH Auburn	UAH Tougaloo College Auburn University Alabama A&M University UAH Bowie State University	6
<u>Mathematics (3)</u> Jackson, Melody Kendricks, Kimberly Pettis, Carl	UAH Auburn Auburn	Alabama State University University of Pittsburgh Alabama State University	3
Grand Total			14