

# ALABAMA LSAMP

## *Meetings and Conferences*

### 2012-2013

**LEAD INSTITUTION:** The University of Alabama at Birmingham

**PARTNER INSTITUTIONS:** Alabama A&M University - Alabama State University  
Auburn University - Miles College - Oakwood University - Stillman College - Talladega  
College - Tuskegee University - The University of Alabama - The University of Alabama in  
Huntsville and The University of South Alabama

**FUNDED by:** National Science Foundation Award #1139756

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## THE NATIONAL SCIENCE FOUNDATION (NSF)



**Dr. Cora Marrett** – *Acting Director, The National Science Foundation*

The Office of the Director houses the Foundation's top leadership and oversees all Foundation activities from the development of policy priorities to the establishment of administrative and management guidelines, including long-range planning. The positions of Director and Deputy Director are appointed by the President and confirmed by the U.S. Senate. NSF's statutory authority establishes a six-year term for the Director.

### DIRECTORATE FOR EDUCATION AND HUMAN RESOURCES (EHR)

**Dr. Joan Ferrini-Mundy** – *Assistant Director for the Directorate for Education and Human Resources, The National Science Foundation*

The EHR's mission is to support the development of a diverse and well-prepared workforce of scientists, technicians, engineers, mathematicians and educators and a well-informed citizenry that has access to the ideas and tools of science and engineering. The purpose of these activities is to enhance the quality of life of all citizens and the health, prosperity, welfare and security of the nation.



### DIVISION OF HUMAN RESOURCE DEVELOPMENT (HRD)



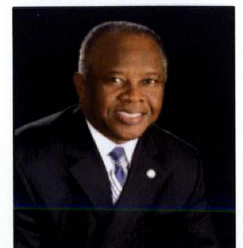
**Dr. Jermelina Tupas** – *Acting Division Director, The National Science Foundation*

HRD serves as a focal point for NSF's agency-wide commitment to enhance the quality and excellence of science, technology, engineering and mathematics (STEM) education and research by broadening the participation of underrepresented groups and institutions. HRD's programs aim to increase the participation and advancement of minority-serving institutions, women and girls and persons with disabilities at every level of science and engineering enterprises including underrepresented minorities.

### LOUIS STOKES ALLIANCES FOR MINORITY PARTICIPATION (LSAMP)

**Dr. A. James Hicks** – *Program Director, The National Science Foundation*

The LSAMP program is aimed at increasing the quality and quantity of students successfully completing science, technology, engineering and mathematics (STEM) baccalaureate degree programs and increasing the number of students interested in, academically qualified for and matriculated into programs of graduate study. LSAMP supports sustained and comprehensive approaches that facilitate achievement of the long-term goal of increasing the number of students who earn doctorates in STEM fields, particularly those from populations underrepresented in STEM fields.





# The Louis Stokes Alliances for Minority Participation (LSAMP)



**The Louis Stokes Alliances for Minority Participation Program** is a National Science Foundation (NSF) funding opportunity aimed at increasing the quality and quantity of students successfully completing science, technology, engineering and mathematics (STEM) baccalaureate degree programs and increasing the number of students interested in, academically qualified for and matriculated into programs of graduate study. LSAMP supports sustained and comprehensive approaches that facilitate achievement of the long-term goal of increasing the number of students who earn doctorates in STEM fields, particularly those from populations underrepresented in STEM fields. The program goals are accomplished through the formation of alliances. LSAMP is ranked as one of the ten most effective diversity programs in the U.S. by *Diverse Issues in Higher Education*. Through LSAMP, more than 500,000 students have earned Bachelor of Science degrees since it was initiated by the NSF in 1991, when it was known as the Alliance for Minority Participation. The award is named for civil rights activist, lawyer and 15-term Congressman Louis Stokes, the first African American member of Congress from the State of Ohio. During his Congressional career he was especially active in health care and public health issues, serving on the Pepper Commission on Comprehensive Health Care. Stokes also was the founder and chairman of the Congressional Black Caucus Health Braintrust.

## The ALABAMA LSAMP (ALSAMP)

**The Alabama Louis Stokes Alliance for Minority Participation Program** is one of the six oldest National Science Foundation (NSF) alliances in the nation, that strives through its 12 member institutions to increase the program's goals of increasing the quality and quantity of students successfully completing STEM baccalaureate degree programs and increasing the number of students interested in, academically qualified for and matriculated into programs of graduate study. The members are: Alabama A&M University; Alabama State University; Auburn University; Miles College; Oakwood University; Stillman College; Talladega College; Tuskegee University; The University of Alabama; The University of Alabama at Birmingham, the Lead Institution; The University of Alabama in Huntsville and The University of South Alabama.

ALSAMP was the first NSF alliance to develop and implement the following programs and activities: LSAMP Scholars Program, Summer Bridge Program for high school graduates, Summer Research Program for undergraduate STEM students, Graduate Bridge Program for graduate school bound undergraduates, Drop-In Centers/Cooperative Learning Centers for STEM students, The NSF Summer Research Conference for LSAMP students and the NSF LSAMP Magazine. Dr. Louis Dale, Vice President for Equity and Diversity at the University of Alabama at Birmingham, was the author of the Alabama LSAMP proposal in 1991 which was successfully funded then and continues to be, entering its 22<sup>nd</sup> year.

## ALSAMP SUMMER BRIDGE PROGRAMS

**ALSAMP Summer Bridge Programs** are supported by the National Science Foundation (NSF) as one component of the statewide ALSAMP headquartered at UAB. The programs are designed to provide entering minority freshmen majoring in a science, technology, engineering or mathematics discipline, with early college preparation experiences to facilitate their successful transition from high school to college. The Bridge programs, which began in 1992, were the first such programs in the nation and since that time, have been replicated by other institutions and are considered models by NSF. Moreover, UAB was one of the first universities in the country to receive an Alliance for Minority Participation Award from NSF.

The Bridge programs introduce students to the necessary skills needed to successfully enter and matriculate through freshmen academic coursework and prepare them for future success when they return in the fall. Early on, Summer Bridge students become acquainted with faculty, mentoring and advising personnel, campus support services and participate in weekly seminars on effective techniques for time management, financial management, study and test-taking skills, personal safety and communication. The qualities of initiative and competitiveness are enhanced through each student's research, preparation and presentation of scientific poster projects and essays. Opportunities for personal growth are provided through individual and group activities as students network and bond with their peers as they experience campus life.

Summer Bridge students, faculty and site coordinators from each ALSAMP institution convene in July for the Summer Bridge Conference where students network, display their research posters, read essays and share their summer experiences.



2012 ALSAMP Summer Bridge Students



2013 ALSAMP Summer Bridge Students

# TWENTIETH ANNUAL ALSAMP SUMMER BRIDGE CONFERENCE

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM - July 20, 2012

## PROGRAM

7:45 - 8:25 a.m. Poster Set-Up:  
English: *Room 144* Mathematics: *Room 131* Science: *Rooms 134 and 135*

8:30 - 10:00 a.m. Poster Competition In-Session

8:30 a.m. Registration *First Floor South Lobby*

9:00 a.m. **SESSION I** *Room 230*

Welcome and Introductions.....Dr. Louis Dale  
*Vice President for Equity and Diversity*

Greetings.....Dr. Carol Z. Garrison  
*President*

Introduction of Guest Speaker.....Ms. Itia Dowdell  
*UAB Summer Bridge Student*

Guest Speaker.....Mr. Adrian D. Jones  
*UAB Student Government Association President*

Presentation.....Mr. Sami Chowdhury  
*UAB Summer Bridge Student*

Comments.....Dr. Dale

UAB Summer Bridge Student Oral Essay Presentations.....Ms. Jeanine Irons  
*Summer Bridge English Instructor*

Group Photo Session

Tour Poster Exhibits *Rooms 131, 134, 135 and 144*

11:30 a.m. **LUNCH** *Room 133*

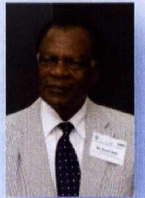
12:30 p.m. **SESSION II** *Room 230*

*A Visual Look Back*.....Dr. Carolyn Braswell  
*Associate Vice President for Equity and Diversity*

Award Presentations:

- Program Participation Certificates
- English Poster Awards
- Mathematics Poster Awards
- Science Poster Awards
- Written Essay and Oral Essay Awards

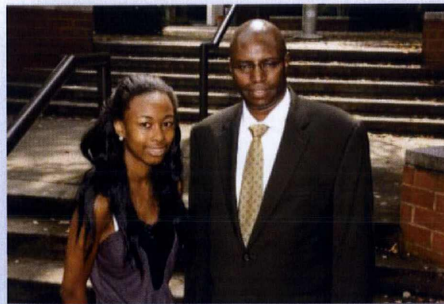
Closing Remarks.....Dr. Dale



# SIGHTS AND SCENES FROM THE 2012 SUMMER BRIDGE CONFERENCE



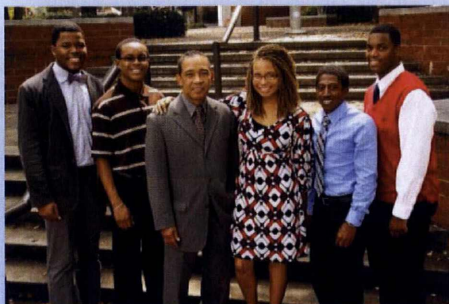
Dr. Jacqueline Johnson and the Alabama A&M Summer Bridge Students



Mr. Elijah Nyairo and the Alabama State Summer Bridge Student



Auburn Summer Bridge Students



Dr. Kenneth LaiHing and the Oakwood Summer Bridge Students



Dr. Herman Windham and the Tuskegee Summer Bridge Students



Dr. Viola Acoff and the UA Summer Bridge Students



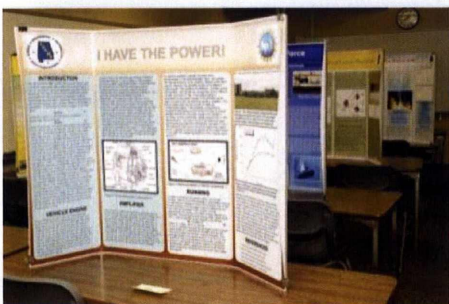
Dr. Carolyn Braswell, Dr. Louis Dale and the UAB Summer Bridge Students



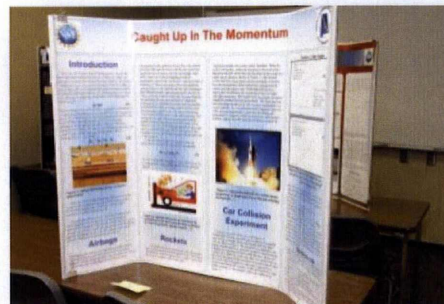
Dr. Emanuel Waddell and the UAH Summer Bridge Students



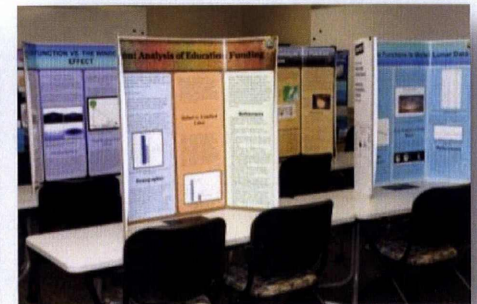
Best Oral Presentation Award Recipient Subria Spencer



Research Posters



Research Posters



Research Posters

**TWENTY-FIRST ANNUAL ALSAMP SUMMER BRIDGE CONFERENCE**  
 THE UNIVERSITY OF ALABAMA AT BIRMINGHAM - July 19, 2013

**PROGRAM**

8:30 a.m. Registration

9:00 a.m. Welcome/Occasion.....Dr. Louis Dale  
*Vice President for Equity and Diversity, ALSAMP Principal Investigator*

Greetings from the Provost.....Dr. Linda Lucas  
*Provost*

Recognition of Site Coordinators and Guests .....Dr. Carolyn Braswell  
*Associate Vice President for Equity and Diversity, ALSAMP Co-Principal Investigator*

Summer Bridge Program Descriptions.....ALSAMP Site Coordinators

Introduction of Summer Bridge Student Essay Presenters:

Alabama A & M University	Dr. Jeanette Jones
Alabama State University	Dr. Carl Pettis
Auburn University	Dr. Overtoun Jenda
Oakwood University	Dr. Kenneth LaiHing
Talladega College	Ms. Kimberly Davis
Tuskegee University	Dr. Herman Windham
The University of Alabama	Dr. Viola Acoff
The University of Alabama at Birmingham	Dr. Carolyn Braswell
The University of Alabama in Huntsville	Dr. Emanuel Waddell

Comments.....Dr. Dale

Group Photos

11:30 a.m. Lunch

Introduction of Keynote Speaker.....Ms. Ashley Leonard  
*UAB Summer Bridge Student*

Keynote Speaker.....Dr. Vanessa Leonard  
*Trustee, The University of Alabama System  
 Third Congressional District*

Special Presentation.....Ms. Chrisalyn Butler  
*UAB Summer Bridge Student*

ALSAMP Student Essay

Awards.....Dr. Braswell

Closing Remarks.....Dr. Dale

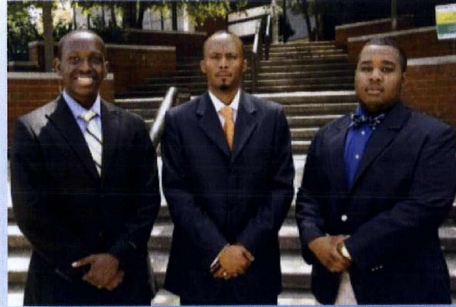
1:30 p.m. Adjournment



## SIGHTS AND SCENES FROM THE 2013 SUMMER BRIDGE CONFERENCE



Dr. Jeanette Jones and the Alabama A&M Summer Bridge Students



Dr. Carl Pettis and the Alabama State Summer Bridge Students



Dr. Overtoun Jenda and the Auburn Summer Bridge Students



Dr. Kenneth LaiHing and the Oakwood Summer Bridge Students



Ms. Kimberly Davis and the Talladega Summer Bridge Students



Dr. Herman Windham and the Tuskegee Summer Bridge Students



Dr. Viola Acoff and the UA Summer Bridge Students



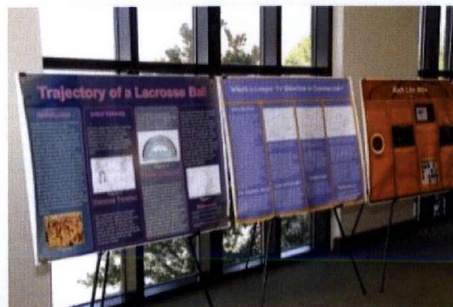
Dr. Carolyn Braswell, Dr. Louis Dale and the UAB Summer Bridge Students and Instructors



Dr. Emanuel Waddell and the UAH Summer Bridge Students



First Place Oral Presentation Award Winner  
Jerrod Dukus



Math Research Posters



Science Research Posters



## OVERVIEWS OF CAMPUS ALSAMP SUMMER BRIDGE PROGRAMS

### **Alabama A&M University**

The ALSAMP Summer Bridge Program is a 4-week academic opportunity funded by the National Science Foundation for underrepresented minority students accepted to AAMU and plan to major in science, technology engineering or mathematics (STEM) in the Fall of 2013. Program objectives are to: facilitate the transition of students from high school to AAMU; engage students early in AAMU academics; familiarize students with campus resources; increase the retention rate of students; acquaint students with the rigorous schedule of a AAMU freshman; establish a faculty and staff support system and to connect students with a solid peer group.

### **Alabama State University**

The ALSAMP summer bridge program was first developed at The University of Alabama at Birmingham. It is for qualified high school STEM students planning to attend college at an ALSAMP institution to participate in summer bridge activities which include: living on campus for a three week period, attending special seminars, attending required tutoring sessions and the development of a research project to be presented at the ALSAMP Summer Bridge Program Conference at UAB. The ASU Summer Bridge Program will be held July 8 - 26, 2013.

### **Auburn University**

The College of Sciences and Mathematics (COSAM) Summer Bridge Program is an intensive four week residential program for talented and highly motivated minority students from populations traditionally underrepresented in the sciences and mathematics who want to get a head start in their college career. The program, which takes place on the main campus of Auburn University, emphasizes academic preparedness, development and enhancement of study and time-management skills, establishment of academic and social support and career awareness. Chemistry and Mathematics faculty, graduate teaching assistants, counselors and academic advisors will staff the program. The program will be held June 2 - 27, 2013.

### **Oakwood University**

The Summer Bridge Program will be held July 7 – 19, 2013. It is a two-week residential program which will provide students with a review of mathematics, English, biology and chemistry by faculty and visits to local companies and The University of Alabama at Huntsville. Workshops will address study skills, time management, adjusting to college life and use of the library.

### **Talladega College**

The Bridge Program is a six-week intensive program, beginning June 3, 2013 and ending July 12, 2013. The program is designed to help students make a seamless transition from high school to college. It is open to 2013 graduating seniors who plan to major in science, technology, engineering and mathematics (STEM) or psychology. Selected students will take two college courses (Mathematics and Communications/English) for three hours credit each. A letter grade of “C” or better must be earned in a course in order to receive credit. Housing, meals, tuition, fees & books will be provided by the program.

## **Tuskegee University**

The Summer Bridge Program at Tuskegee University is an eight-week program (Regular Summer School). The official dates for the program are June 3, 2013 to August 2, 2013. The program is conducted in conjunction with the university's existing Pre-Freshman Engineering Program. Students in the program take two (2) college level courses. One course shall be mathematics (Calculus I or Pre-Calculus Algebra). The second course shall be an introductory engineering course, an English course, or a course in the student's area of interest. Usually there are no classes on Fridays. Fridays are held open for the students to attend a guest lecture or to take a field trip to an industry. The culminating activity will be an Awards Banquet.

## **The University of Alabama**

Applicants for the 2013 Summer Bridge Program are being recruited from students who have been accepted for fall 2013 admission into a STEM major at The University of Alabama. The Summer Bridge students will be housed on campus in student housing facilities. Each student will enroll in two courses: an English course and a Math course. In addition, each student will be assigned to work on a research project that will be presented at the LSAMP Summer Bridge Program Conference at UAB. The students will also be required to attend weekly seminars on various topics related to professional development and preparing for college. In addition, there will be a number of team building exercises conducted. Students who successfully complete the Summer Bridge Program will be eligible to receive a merit scholarship for the first year of college. This merit scholarship will consist of half tuition for each student for both the fall 2013 and spring 2014 semesters.

## **The University of Alabama at Birmingham**

The ALSAMP Summer Bridge Program is a seven-week residential academic opportunity funded by the National Science Foundation for underrepresented minority students accepted to UAB and plan to major in science, technology, engineering or mathematics (STEM) in the fall of 2013. Students are enrolled in ten hours of classes (Mathematics 105, English 101 and Physical Science 101 w/lab) May 31 - July 19, 2013. Seminars are held each Friday, the topics being: Off to a Great Start; Time Management; Effective Study and Test Taking Skills; Campus Safety; Academic Payday; Creating a Research Poster Presentation and Writing Abstracts; Etiquette and Social Skills and Money Management. Observations in three active Shelby Biomedical Research Center labs highlight the seminar series. Students construct a research poster for each of their classes and awards are presented to those students judged most outstanding by visiting reviewers.

## **The University of Alabama in Huntsville**

The Summer Bridge Program is a two-week (July 7 - 19, 2013) summer residency program for UAH students designed to facilitate the transition of Alabama underrepresented minority students from high school or community colleges to UAH where they have been accepted for the fall term. Program components include: Academic enrichment, weekly seminars, career and academic counseling and mentoring/orientation. The concluding conference features a distinguished visiting guest speaker and student poster competitions in the areas of mathematics, English and essay writing.

## 2013 ALSAMP SPRING RESEARCH CONFERENCE

The ALSAMP Spring Research Conference is an annual prestigious event of the Alabama Alliance that provides undergraduate scholars an opportunity to highlight their research and creativity.

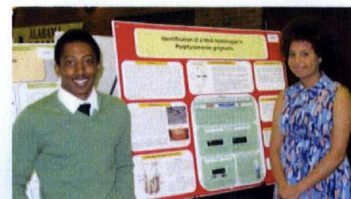
In addition to bringing attention to the excellent work of the students, the conference allows students to gain presentation skills, compete for awards and form relationships with their faculty mentors and fellow conference presenters.



ALSAMP Principal Investigator and Site Coordinators



ALSAMP Undergraduate Scholars



# 2013 ALSAMP SPRING RESEARCH CONFERENCE

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM - April 21-22, 2013

## AGENDA

5:30 p.m.	<b>REGISTRATION</b>	<i>Great Hall Foyer</i>
6:00 p.m.	<b>SESSION I</b>	
	Presiding	Dr. Louis Dale, <i>ALSAMP Principal Investigator</i>
	Dinner	
	Overview of Poster Competition	Dr. Carolyn Braswell, <i>ALSAMP Co-Principal Investigator</i>
	Adjournment to Rooms C & D	
7:15 p.m.	Poster Registration/Set-Up	<i>Great Hall Rooms C&amp;D</i>
	Poster Set-Up Adjourned	



## Monday, April 22, 2013

7:45 a.m.	<b>SIGN-IN/CONTINENTAL BREAKFAST</b>	<i>Great Hall Foyer / Rooms A&amp;B</i>
8:30 a.m.	<b>SESSION II</b>	
	Poster Judging In Progress	
10:35 a.m.	Judging Ends	
10:45 a.m.	<b>SESSION III</b>	<i>HUC Auditorium</i>
	Presiding	Dr. Mary Jane Krotzer, <i>Site Coordinator Stillman College</i>
	Introduction of Guest Speaker	Dr. Kenneth LaiHing, <i>Site Coordinator Oakwood University</i>
	Presentation	Ms. Amanda Plain, <i>Chemistry Graduate Student President, Graduate Student Association</i>
11:45 a.m.	<b>GROUP PHOTOS</b>	
12:00 Noon	<b>SESSION IV</b>	<i>Great Hall Rooms A&amp;B</i>
	Presiding	Dr. Dale
	Greetings	Dr. Robert Palazzo, <i>Dean, College of Arts and Sciences</i>
	Lunch	
	Award Presentations	Dr. Braswell and Site Coordinators
	• Certificates of Participation/Research Awards	



**Closing Remarks and Adjournment**

## 2013 SPRING RESEARCH CONFERENCE PROJECTS

### Alabama State University

Bacteriophage Q $\beta$  Display Functional Peptides

Using computer-generated Random Numbers to Calculate the Lifetime of a Comet

Collaborative eLearning

Synthesis, Purification, Characterization, and Volumetric Analysis of Aspirin

The Electrospinning Process and Clinical Applications of Electrospun Nanofibers

Nanoparticles Can Interfere With the Growth of *Streptococcus pneumoniae*

Theoretical Graph Theory of Applied Systems

The Effects of Nano Particle on Bacteria

Encapsulation of Chlamydia Mucosal Vaccine in Poly D, Lactic co-Glycolic Acid



La'Shannon T. Axel

Jordan A. Chatmon <sup>\*1st</sup>

Robin E. Evans <sup>\*3rd</sup>

Brittanie Hanley <sup>\*1st</sup>

Amber Hendon

Alishia N. Miller <sup>\*3rd</sup>

LaKeisha Rango

Tyra W. Tate

Michael Williams

### Auburn University

The Effect of Growth Hormones on Animals and the Population

The Study of Baleen and on Bowhead Whales

The PlayStation Evolution

What Determines an Individual's Suggested Dosage for Medication

Memories

Drowning in Filth: The Environmental Impact of Poor Sanitation in Developing Countries

The Jet Engine and Its Impact on the Aerospace Industry

Birth of the Bionic Eye

It looks Like a Duck, Quacks like One, but is it really a Duck?

The Proton Exchange Membrane in a Car! Efficiency? Dangers?

Advancing Breakthroughs: Bionic Hand that Can Feel



Amani Hill

Gabriel Howard

Joseph Isaac

Jeremy Knott

Shaunequia McClendon

Mallory McDaniel

Anton Casey Peterson

Jasmine Sample

Nadia Sigler

Natalie Walker

Kayla Ware

### Oakwood University

Fabrication and Optimization of Electrospun Polymer Nanofibers

Determination of Molecular Medical Activity Using Computer Calculations

Identification of an HtrA homologue in *Porphyromonas gingivalis*

Hypothetical protease vrgMP may regulate virulence in Methicillin-Resistant *Staphylococcus aureus*

Functionalization and Analysis of Gold Nanoparticles for Biotechnology Applications

Electrotonic and graded potential in *Mimosa pudica* induced by electrostimulation



Eric W. Best, Jr.

Devin Cohen

Lauren Eaton <sup>\*1st</sup>

Jordan Matthews <sup>\*2nd</sup>

Kristen McLean <sup>\*2nd</sup>

James Sampson <sup>\*3rd</sup>

**\*2013 Spring Research Conference Award Winners**

### Stillman College

Effectiveness of Hand Washing of College Students

Kynarra Caruthers

### Talladega College

The Study of Risk Factors of Lung Cancer Incidence Between African Americans and Caucasians

A Comparative Study of Survival Rates from Colon Cancer Between African Americans and Caucasians



Rajeon Beard

Ariel Wynn

### Tuskegee University

How to Measure an Engine's Output Using a Dynamometer

Stop Flow Lithography for Non-Spherical Particle Synthesis

University Cafeteria Study

Fighter Jets: Pilots Safety Standards

Computer Networks and the Internet

Control of nano-particles using alternating current electric fields



Alequcis P. Conway

Jahria D. Cox <sup>\*1st</sup>

Jean-Pierre Papouloute <sup>\*2nd</sup>

Jaleel Shaw

Leonard K. Spencer, Jr.

Valario A. White, Jr.

### The University of Alabama

The Effects of Increased Deformation on the Hardness of Pure Aluminum Processed via Accumulative Roll Bonding

Size Measurements of Ti-6Al-4V Powders Using Scanning Electron Microscopy

Microhardness Measurements of Ti-6Al-4V Specimens Made by Electron Beam Additive Fabrication

Real-Time Simulation vs. MATLAB Simulink: Power System Analysis

The Effect of Increased Deformation on the Hardness of Pure Aluminum Processed via Accumulative Roll Bonding



Bradley Bolden

Darien Doss

Joshua Harvey

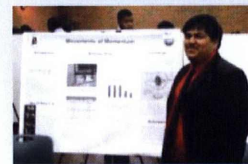
Theodore Robinson <sup>\*3rd</sup>

David Turner <sup>\*2nd</sup>

### The University of Alabama at Birmingham

Movements of Momentum

The Effect of an Incline on the Power of a Workout



Sami Chowdhury

Kyia Stewart

### The University of Alabama at Huntsville

Irradiation of Polymethylmethacrylate with Deep UV Radiation

Midori Roman

### The University of South Alabama

Motion Detection with the use of a Wi-Fi Connection

Artificial Neural Network Based Household Electricity Demand Forecasting

Thermoelectric Power Generation



Damon Edwards

Luvedia Sherun Green

Antonio Jackson

**\*2013 Spring Research Conference Award Winners**



## UAB PRESIDENT'S DIVERSITY LUNCHEON

### GUEST SPEAKER

**Dr. Joan Ferrini-Mundy**



Dr. Joan Ferrini-Mundy, Assistant Director for Education and Human Resources at the National Science Foundation (NSF), visited UAB on Wednesday, January 23, 2013. She was the speaker and guest of Dr. Richard Marchase, Interim President, and Dr. Louis Dale, Vice President for Equity and Diversity and Alabama LSAMP Principal Investigator, at a noon luncheon in the UAB Alumni House. UAB department chairs and faculty interested in securing support from NSF were invited to attend, in addition to LSAMP Principal Investigators from the southeast

region. An exhibit of Bridge to the Doctorate (BD) Fellows research posters greeted guests as they arrived and Fellows stood by to discuss their findings with interested guests.

Dr. Ferrini-Mundy discussed NSF's effort to broaden participation of underrepresented minorities and women in science, technology, engineering and mathematics. Following her presentation, Dr. Ferrini-Mundy held a brief question and answer session with the attending principal investigators and coordinators.



Concluding her visit to the UAB campus with a tour of the Shelby Interdisciplinary Biomedical Research Laboratories, Dr. Ferrini-Mundy expressed her appreciation to all for the southern hospitality and the dedication of the attending LSAMP's STEM team to broaden participation of underrepresented minorities and women in science, technology, engineering and mathematics.



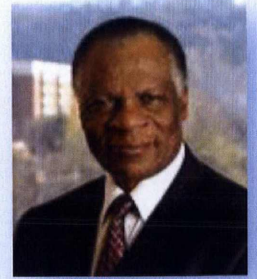
Dr. Ferrini-Mundy confers with LSAMP Principal Investigators

**UAB PRESIDENT'S DIVERSITY LUNCHEON**  
THE UNIVERSITY OF ALABAMA AT BIRMINGHAM - January 23, 2013

**PROGRAM**

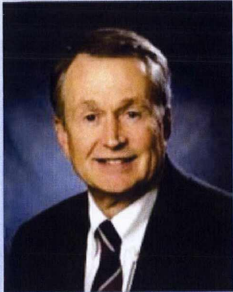
**Welcome**

**Dr. Louis Dale**  
*Vice President for Equity and Diversity*



**Greetings**

**Dr. Richard Marchase**  
*Interim President*



**Networking Lunch**

**Introduction of Speaker**

**Dr. John Mayer**  
*Associate Chair*  
*Department of Mathematics*



**Speaker**

**Dr. Joan Ferrini-Mundy**  
*Assistant Director*  
*National Science Foundation*



**Special Presentation**

**Dr. Carolyn Braswell**  
*Associate Vice President*  
*Equity and Diversity*



**Closing Remarks**

**Dr. Linda Lucas**  
*Provost*





## THE BRIDGE TO THE DOCTORATE PROGRAM

**The Bridge to the Doctorate Program (BD)** is a NSF initiative within the LSAMP Program to provide former LSAMP baccalaureate degree graduates with a fellowship for graduate studies. The ultimate goal is to increase the number of minority students that obtain a Ph.D. degree in a science, technology, engineering and mathematics (STEM) field.

The program is aimed at increasing the quality and quantity of students successfully completing STEM baccalaureate degree programs and increasing the number of students interested in, academically qualified for and matriculated into programs of graduate study.

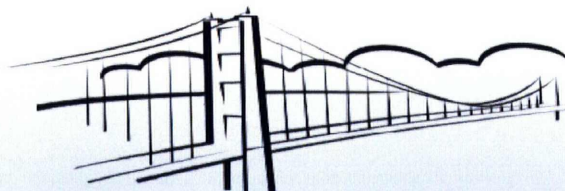
LSAMP supports sustained and comprehensive approaches that facilitate achievement of the long-term goal of increasing the number of students who earn doctorates in STEM fields, particularly those from populations underrepresented in STEM fields. The program goals are accomplished through the formation of alliances. The BD Program provides support for eligible students from schools in the Alabama Alliance to pursue a Ph.D. in science, mathematics, engineering or technology. Students will receive a \$30,000 stipend along with full remission of tuition and fees during their first two years.

### **THE PROGRAM OFFERS:**

- Full Graduate Tuition & Fees
- Mentoring Program
- Conference and Research Travel Opportunities
- Seminars and Workshops
- Graduate and Professional Student Associations
- Research Opportunity in Interdisciplinary Areas
- Academic Enrichment
- Diverse and Interactive Community

### **QUALIFICATION REQUIREMENTS:**

- Must be a U.S. citizen or permanent resident of the U.S.
- Must have participated directly or indirectly in the LSAMP Program at the undergraduate level and must provide certification of this participation.
- Must be a first time graduate student.
- Have a minimum GPA of 3.0
- Plan to pursue a Masters, then Doctoral Degree in a STEM discipline.



**2013 BRIDGE TO THE DOCTORATE PROGRAM**  
THE UNIVERSITY OF ALABAMA AT BIRMINGHAM - January 26, 2013

All activities will be held in Campbell Hall, Rooms 405 and 443.

**AGENDA**

- 7:15 – 7:45 a.m. Registration and Light Refreshments
- 7:45 – 8:00 a.m. Welcome and Opening Remarks - Dr. Louis Dale, *LSAMP Principal Investigator, UAB*
- 8:00 – 9:15 a.m. Session I – Presiding: Dr. Herman Windham, *Site Coordinator, Tuskegee University*
- Tuskegee Alumni Fellows PowerPoint Presentations:
- 8:00 - *Sandra Brundidge-Young*
  - 8:15 - *Morgan Perry Davis, Jr.*
  - 8:30 - *Veronica F. Powell*
  - 8:45 - *Diane Render*
  - 9:00 - *Gregory Strawder*
- 9:15 – 10:00 a.m. Session II – Presiding: Dr. Carolyn Braswell, *Co-Principal Investigator, UAB*
- UAB Fellows PowerPoint Presentations:
- 9:15 - *Matthew Bishop*
  - 9:50 - *Jaquice Hughes Boyd (BD Alumnus)*
  - 9:45 - *Michael Daniel*
- 10:00 – 10:15 a.m. Break
- 10:15 – 11:30 a.m. Session II – (continued)
- UAB Fellows PowerPoint Presentations:
- 10:15 - *Romone Fancy*
  - 10:30 - *Sandra Garcia (EDEP Fellow)*
  - 10:45 - *Carol Y. Harden*
  - 11:00 - *Vinetra King (CMFSDP Fellow)*
  - 11:15 - *Carnella Michelle Lee*
- 11:30 – 11:45 a.m. Group Photos
- 12:00–12:30 p.m. Lunch - Room 443
- 12:30 – 2:15 p.m. Session II – (continued)
- UAB Fellows PowerPoint Presentations:
- 12:30 - *Monica Lewis (CMFSDP Fellow)*
  - 12:45 - *Tiara Napier*
  - 1:00 - *Harsh Patel*
  - 1:15 - *Deonna Pompey*
  - 1:30 - *Kevin Scriber*
  - 1:45 - *Glenn Terrell (BD Alumnus)*
  - 2:00 - *Eva Trinh (EDEP Fellow)*
- 2:15 – 2:30 p.m. Closing Remarks – Dr. Dale



## 2013 BRIDGE TO THE DOCTORATE CONFERENCE PRESENTERS



**Matthew Bishop**  
*Physics*



**Michael Daniel**  
*Biology*



**Romone Fancy**  
*Biomedical Engineering*



**Sandra Garcia**  
*Microbiology*



**Carol Harden**  
*Biology*



**Jacquice Hughes Boyd**  
*Engineering*



**Vinetra King**  
*Psychology*



**Carnella M. Lee**  
*Biology*



**Monica Lewis**  
*Microbiology*



**Tiara Napier**  
*Biomedical Engineering*



**Harsh Patel**  
*Biomedical Engineering*



**Nichole Pompey**  
*Mathematics*



**Kevin Scriber**  
*Biology*



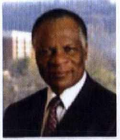
**Glenn Terrell**  
*Engineering*



**Eva Trinh**  
*Psychology*



# ALABAMA LOUIS STOKES ALLIANCE FOR MINORITY PARTICIPATION



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