

Tuskegee University and TEAM-Math 2006 Conference  
on the Mathematical Preparation of Teachers

Saturday, August 26, 2006

8:00 AM– 9:30 AM Breakfast

Kellogg Conference  
Center, Ballroom B

Friday, August 25, 2006

3:00 PM – 4:00 PM

Registration and Reception  
Kellogg Conference Center  
Registration Desk and Atrium

4:00 PM – 4:45 PM

Kellogg Conference Center Ballroom B

4:00

Opening and Welcome

Luther Williams  
Provost,  
Tuskegee University

4:10

Occasion  
and TEAM-Math Briefing

W. Gary Martin  
TEAM-Math  
Project Director  
Marilyn Strutchens  
TEAM-Math  
Project Co-Director

4:55 PM – 5:15 PM

Mini-Presentations I  
(Refer to handout in folder for complete titles and  
abstracts)

Anna Wright  
Calvin McTier

*A TEAM-Math School  
Mathematics Reform and  
Inclusion*

Ballroom A

John Mayer

*A Community of Learners  
and Leaders*

Meeting Rooms D-E

Meeting Rooms F-G

5:20 PM – 5:40 PM

Mini-Presentations II

Bethany Elliott &  
Rodney Ragland  
Kathy Westbrook

*Number Talks and Menus  
African American Student  
Voices*

Ballroom A

Meeting Rooms D-E

Narendra Govil

*Discrete Mathematics in  
Schools*

Meeting Rooms F-G

5:45 PM – 7:30 PM Dinner and Address

Ballroom B

5:45

Grace

Herman Windham

5:50

Food Service

6:15

Introduction of Speaker

Marilyn Strutchens

6:20

Dinner Speaker

Pat Campbell

7:20

Recognitions

Mohammed Qazi

7:25

Remarks

Benjamin Benford

7:30

Closing

Carolyn Gathright

8:00

Grace

Carolyn Sippial

8:05

Food Service

8:20

Introduction of Speaker

Carolyn Gathright

8:25

Breakfast Speaker

William A. Massey

9:25

Recognitions

Herman Windham

9:30

Closing

Mohammed Qazi

9:40 AM – 10:40 AM

Round Table Discussions (Refer to handout in  
folder for details about each session)

*Teaching Statistics K-12: Instruction, Assessment and Curriculum Issues*

Facilitator: Michael Adams

Ballroom A

*Calculators in K-6: Help or Hindrance?*

Facilitator: W. Gary Martin

Meeting Rooms D-E

*Mathematics Teaching in the Middle Grades: Prospects and Issues*

Facilitator: Marilyn Strutchens

Meeting Rooms F-G

10:50 AM – 11:50 AM

Concurrent Exemplary Teaching Practices  
(Refer to handout in folder for abstracts)

*Manipulatives: Tools or Toys for the K-2 Student?*

Facilitator: Judy Welch

Ballroom A

*What Are The Chances?*

Facilitator: Lora Joseph

Meeting Room B

*Rodent Romp: A Graphical Exploration*

Facilitator: Gayle Herrington

Meeting Rooms D-E

*Getting Started with Geometry using Cabri Jr.*

Facilitator: Terry Green

Meeting Rooms F-G

12:00 PM – 1:00 PM

Concurrent Exemplary Teaching Practices

*Topics and room assignments as above for first three sessions*

*Middle School Adventures in Data Collection using the CBR2*

Facilitator: Terry Green

Meeting Rooms F-G

*Tour of the Carver Museum* (Group meets in hotel lobby at 11:55PM)

1:10 PM – 3:00 PM Luncheon and Address

Ballroom B

1:10

Grace

Elizabeth Senger

1:15

Food Service

1:40

Introduction of Speaker

Gary Martin

1:45

Luncheon Speaker

Pat Wilson

2:45

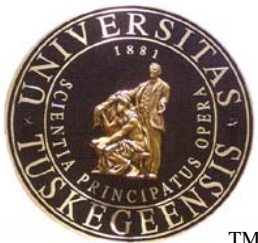
Recognitions, Remarks,  
and Conference Evaluation

Herman Windham

3:00

Closing

Mohammed Qazi



TM

## Transforming East Alabama Mathematics Conference

### Titles and Descriptions of Addresses

#### Friday Dinner Address, August 25, 2006

Crossing Domains to Partner for Change – Dr. Pat Campbell

University mathematics educators, mathematicians, and school district leaders each bring unique expertise and expectations to the shared responsibility of preparing and enhancing mathematics teachers. But simply offering knowledge and a commitment to meet obligations will not yield a meaningful partnership much less promote positive change in schooling. This presentation will offer some lessons learned from a university educator who has spent over 10 years crossing from the domain of a flagship university to that of urban schools in order to stimulate and study efforts to apply research on mathematics teaching and learning in the reality of public schooling.

#### Saturday Breakfast Address, August 26, 2006

The Four Dimensions of Mathematics – Dr. William A. Massey

The cover story of Business Week magazine in January of 2006 was titled "Math Will Rock Your World". This article was serving notice that mathematics is having a major impact on the business community in the 21st century. Given the impact that mathematics has always had on the biological, financial, information, and physical sciences, we see that the future is bright and exciting for both practitioners and researchers in mathematics and related fields.

The critical issue that needs to be addressed is properly training the next generation of students for careers in the new mathematical world that lies ahead. One important step is to get beyond the archaic 20th century view of pure versus applied mathematics. My talk presents a unifying vision of mathematics for the new century of opportunity through excellence. This integrated perspective provides useful guidelines for both the development of educational programs and the planning of future career goals in the mathematical sciences.

#### Saturday Luncheon Address, August 26, 2006

Developing a Deep Understanding of Mathematics – Dr. Pat Wilson

The first recommendation of the Mathematics Education of Teachers report states, "Prospective teachers need mathematics courses that develop a deep understanding of the mathematics they will teach." Although those who teach mathematics to teachers usually have a deep understanding of mathematics, they may not have been prepared to help others develop that deep understanding of mathematics. This session will identify the diverse group of people who teach mathematics to teachers, propose characteristics of a deep understanding of mathematics for teaching, and offer examples of initiatives that prepare and support those who teach mathematics for teachers.

## Transforming East Alabama Mathematics THIRD ANNUAL CONFERENCE PROGRAM

**TUSKEGEE UNIVERSITY**  
**Kellogg Conference Center**  
**August 25-26, 2006**

### CONFERENCE THEME:

**The Mathematical Preparation of Teachers – Educators  
and Mathematicians Working More Closely Together**



TEAM-Math is a partnership of Auburn University, Tuskegee University, fifteen school districts (Alexander City, Auburn City, Barbour County, Bullock County, Chambers County, Elmore County, Eufaula City, Lanett City, Lee County, Macon County, Opelika City, Phenix City, Russell County, Tallapoosa County, and Tallasse City school districts), and business partners working towards the common goal of improving mathematics education in East Alabama