

**Tuskegee University and TEAM-Math 2005 Conference
on the Mathematical Preparation of Teachers**

Friday, August 26, 2005

3:00 PM – 4:00 PM **Registration and Reception**
Kellogg Conference Center
Registration Desk and Atrium

4:00 PM – 7:30 PM **Dinner and Address**
Kellogg Conference Center Ballroom B

Program

4:00	Opening and Welcome	William Lester Provost, Tuskegee University
4:15	Occasion and TEAM-Math Briefing	W. Gary Martin TEAM-Math Project Director Marilyn Strutchens TEAM-Math Project Co-Director Tommy Johnson
5:00	Grace	
5:05	Food Service	
5:55	Introduction of Speaker	Mohammed Qazi
6:00	Dinner Speaker	James Fey
7:15	Recognitions	Carolyn Gathright
7:20	Remarks	Benjamin Benford
7:25	Closing	Herman Windham

Saturday, August 27, 2005

8:00 AM– 9:00 AM Breakfast **Kellogg Conference Center, Ballroom B**

Program

8:00	Grace	Carolyn Sippial
8:05	Food Service	
8:25	Introduction of Speaker	Gary Martin
8:30	Breakfast Speaker	James E. Hamos
8:50	Recognitions	Carolyn Gathright
8:55	Remarks and Closing	Herman Windham

9:15 AM – 10:00 AM **Concurrent Panel Discussions**
Questions and Answers

Mathematical Preparation of Elementary School Teachers – CBMS Recommendations for Elementary School Teacher Preparation
Kellogg Conference Center Meeting Rooms D-E
Panelists **Charma Allen, Kimberly Nunes-Bufford, Elizabeth Senger, Steve Stuckwisch**
Moderator **John Painter**

Mathematical Preparation of Middle School Teachers – A State Approved Model for Middle School Teacher Preparation and CBMS Recommendations
Kellogg Conference Center Meeting Rooms F-G
Panelists **Charles Calhoun, Tommy Smith, Marilyn Strutchens, Bertha Walker**
Moderator **Herman Windham**

Mathematical Preparation of High School Teachers – CBMS Recommendations for High School Teacher Preparation
Kellogg Conference Center Ballroom A
Panelists **John Bales, Beth Hickman, Gary Martin, Michel Smith,**
Moderator **Sarah Westbrook**

9:40 – 9:55 AM **Audience Questions and Answers**
9:55 – 10:00 AM **Closing** **Panel Moderators**

10:15 AM – 11:15 AM **Concurrent Exemplary Teaching Demonstrations**

Algebra Tiles	Tommy Johnson	Meeting Rooms F-G
Problem Solving	Joy Black	Meeting Room A
Proportional Reasoning	Gayle Herrington	Meeting Room B
TI Navigator	Terry Green	Meeting Rooms D-E
Measure, Analyze, Learn	David Carter	Ballroom A

(Vernier Software & Technology)

11:30 AM – 12:30 PM **Concurrent Exemplary Teaching Practices**
(Topics and room assignments as above)
or Tour of the Carver Museum

12:40 PM – 3:00 PM Luncheon and Address **Ballroom B**

Program

12:40	Grace	Elizabeth Senger
12:45	Food Service	
1:15	Introduction of Speaker	Carolyn Gathright
1:20	Luncheon Speaker	Judith Sowder
2:30	Recognitions, Remarks and Conference Evaluation	Herman Windham
3:00	Closing	Carolyn Gathright



TM

Transforming East Alabama Mathematics Conference

Titles and Descriptions of Addresses

Friday Dinner Address, August 26, 2005

Learning Algebraic Structures for Teaching – Dr. James Fey

Courses in abstract algebra are standard requirements in the mathematics major and in preparation of mathematics teachers for secondary schools. But prospective and in-service teachers seldom connect their experiences in collegiate algebra courses to their responsibilities in teaching high school mathematics. With the stimulus of recommendations in the *Mathematics Education of Teachers* report, we have been developing new approaches to the content and teaching of the upper division algebra courses with the specific intent of developing insights and reasoning skills that teachers will find useful. In this session we will describe and illustrate our ideas and the results that we have observed in classroom trials of the approach.

Saturday Breakfast Address, August 27, 2005

Engaging Disciplinary Faculties in the MSPs – Dr. James E. Hamos

One of the major theoretical elements of the Math and Science Partnership program involves the engagement of the disciplinary faculty from higher education in the work of K-12 education. This breakfast talk will highlight several aspects of this engagement including: (1) the origins of the drive to include mathematicians, scientists and engineers, (2) the need to raise this work to a scholarly level, beyond well-meaning service to the community, and (3) the necessity of promoting institutional change within institutions of higher education in order to support faculty members who significantly connect with K-12.

Saturday Luncheon Address, August 27, 2005

Preparing Elementary Teachers: The Role of Reasoning About Numbers and Quantities – Dr. Judith Sowder

For many, if not most teachers, word problems and fractions are the most dreaded topics in the elementary curriculum. Teachers can become confident about teaching these topics if, in their preparation for teaching, they encounter ways of thinking and reasoning about problem situations and about operations on fractions. Examples of tasks that lead to these types of reasoning and video clips of both teachers and children demonstrating (and not demonstrating) appropriate reasoning will be the focus of this presentation.

Transforming East Alabama Mathematics

SECOND ANNUAL CONFERENCE PROGRAM

TUSKEGEE UNIVERSITY
Kellogg Conference Center
August 26-27, 2005

CONFERENCE THEME:

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



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