

Tuskegee University and TEAM-Math 2007 Conference
on the Mathematical Preparation of Teachers

Friday, August 24, 2007

3:00 PM – 3:30 PM	Registration and Reception Kellogg Conference Center Registration Desk and Atrium	
3:30 PM – 4:15 PM	Kellogg Conference Center Ballroom B	
3:30	Opening and Welcome	Shaik Jeelani, V. P. for Research Tuskegee University
3:40	Occasion and TEAM-Math Briefing	W. Gary Martin, TEAM-Math Project Director Marilyn Strutchens, TEAM-Math Project Co-Director
4:25 PM – 4:55 PM	Mini-Presentations I (Refer to handout in folder for complete titles and abstracts)	
Pamela Norris	<i>Improving Students' Critical Thinking Skills</i>	Ballroom A
Calvin McTier	<i>Mathematics Reform and Inclusion</i>	Meeting Rooms D-E
Mohammed Qazi	<i>Using Investigations to Teach Undergraduate Mathematics</i>	Meeting Rooms F-G
5:00 PM – 5:30 PM	Mini-Presentations II	
Cathy Jones	<i>Reform vs. Traditional Pedagogy</i>	Ballroom A
Jack Frederick	<i>MathMovesU & Rocket Science</i>	Meeting Rooms D-E
Michele Matin	<i>How has TEAM-Math Influenced me?</i>	Meeting Rooms F-G
5:35 PM – 7:30 PM	Dinner and Address	
5:35	Grace	Herman Windham
5:40	Food Service	
6:10	Introduction of Speaker	Marilyn Strutchens
6:15	Dinner Speaker	Randy Philipp
7:20	Recognitions	Mohammed Qazi
7:25	Remarks	Carlton Morris
7:30	Closing	Carolyn Gathright

Saturday, August 25, 2007

8:00 AM– 9:30 AM Breakfast

Kellogg Conference
Center, Ballroom B

8:00	Grace	Carolyn Sippial
8:05	Food Service	
8:20	Introduction of Speaker	Carolyn Gathright
8:25	Breakfast Speaker	Glenda Lappan
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 in K-12 Classrooms: GAISE Recommendations*
Facilitator: Michael Adams Ballroom A
- *High School Mathematics: Where Are We Headed?*
Facilitator: W. Gary Martin Meeting Rooms D-E
- *Linking Research to Practice and Practice to Research*
Facilitator: Marilyn Strutchens Meeting Rooms F-G

10:50 AM – 11:50 AM Concurrent Exemplary Teaching Practices
(Refer to handout in folder for abstracts)

- *Motivating Students in Math: Lessons Learned and Tools to Use*
Facilitator: Melissa Gilbert Ballroom A
- *How Do I Assess This?*
Facilitator: Lora Joseph Meeting Room B
- *Meet the Wumps*
Facilitator: Gayle Herrington Meeting Rooms D-E
- *Making Real World Connections with TI-Nspire*
Facilitator: Jennifer Brewer Meeting Rooms F-G

12:00 PM – 1:00 PM Concurrent Exemplary Teaching Practices
Topics and room assignments as above for first three sessions

- *Building Blocks for Future Success with the TI-10 and TI-15 Explorer*
Facilitator: Jennifer Brewer Meeting Rooms F-G

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	Denise Mewborn
2:45	Recognitions, Remarks and Conference Evaluation	Mohammed Qazi
3:00	Closing	Carolyn Gathright

Tour of Moton Field (Group meets in hotel lobby at 3:30PM)



TM

Transforming East Alabama Mathematics Conference

Titles and Descriptions of Addresses

Friday Dinner Address, August 24, 2007

Motivating Prospective Elementary School Teachers to Learn Mathematics

– Dr. Randy Philipp

Prospective elementary school teachers (PSTs) often fail to value their required undergraduate mathematics courses. I will report the results of a large-scale experimental study in which we found that PSTs who studied children's mathematical thinking while learning mathematics improved their mathematical content knowledge and beliefs about mathematics, teaching, and learning more than PSTs who did not study children's mathematical thinking. Implications for the mathematical and pedagogical preparation of PSTs will be discussed, and videoclip examples of children engaged in mathematical thinking will be shown.

Saturday Breakfast Address, August 25, 2007

Mathematical Representations as a Tool for Analysis, Insight, and Reasoning

– Dr. Glenda Lappan

Choosing and using representations to gain insight into a mathematical situation is poorly understood and poorly executed by many of our students. This session will raise questions and give examples that can help us navigate the teaching of representations as a powerful tool in understanding and doing mathematics.

Saturday Luncheon Address, August 25, 2007

Important Ideas in Data Analysis for PreK-12 Students, Teachers, and Teacher Educators

– Dr. Denise Mewborn

Data analysis is an increasingly important area of mathematical thinking in our world, but it is often considered ancillary in the preK-12 curriculum and receives minimal treatment in teacher education programs. In this session, I will provide an overview of the various topics in data analysis that are relevant for PreK-12 students and teachers, the ways in which these topics can be integrated with other content strands, and instructional strategies for helping students and teachers explore and understand these ideas.

Transforming East Alabama Mathematics FOURTH ANNUAL CONFERENCE PROGRAM

TUSKEGEE UNIVERSITY

Kellogg Conference Center

August 24-25, 2007

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