

AMTE-TX Sessions at CAMT 2011

All presentations will take place on Monday, July 18, Room Mustang 5

8:00 – 9:00

First Name: Carole
Last Name: Hayata
Affiliation: University of North Texas

Title: The Development of Mathematical Knowledge for Teaching in Pre-service Teachers

Description: Effective mathematics teachers have the ability to make content accessible and understandable to students, or mathematical knowledge for teaching (MKT). Pre-service teachers participated in a study to determine the impact of methods courses on the development of MKT. The data and results of the Mathematical Knowledge for Teaching (MKT) measures (Hill, Schilling, & Ball, 2004) administered will be shared.

Grade Level: Elementary
Type: Presentation
Length: 60 minutes

9:15 – 10:15

First Name: Valerie
Last Name: Sharon
Affiliation: Sam Houston State University

Co-Presenter: Theresa Hughes
Email: tas031@shsu.edu
Affiliation: Sam Houston State University

Title: Learning to Teach a Math Methods Course Using Lesson Study

Description: We will describe the process and outcomes of our collaboration intended for improving our practice in teaching a math methods course for PSTs. Two senior math educators provided guidance, observed, and critiqued four fraction lessons taught by two junior researchers/instructors. Outcome measures for this two-semester study included PSTs knowledge gain and self efficacy, and reflections from researchers.

Grade Level: Elementary
Type: Activity Presentation
Length: 60 minutes

10:30 – 11:30

First Name: Dustin
Last Name: Jones
Affiliation: Sam Houston State University

Co-Presenter: Mary Swarouth
Affiliation: Sam Houston State University

Co-Presenter: Beth Cory
Affiliation: Sam Houston State University

Title: Popsicle Sticks, Ping Pong Balls, and Pennies: Tasks and Instruction Designed for Place Value Understanding

Description: We describe an ongoing and iterative lesson design/implementation/revision cycle related to place value concepts. We will share our findings about how we have helped prospective teachers better understand the mathematics needed for teaching specifically concepts and ideas related to place value.

Grade Level: Elementary
Type: Presentation
Length: 60 minutes

11:45 – 12:45

First Name: Sarah
Last Name: Ives
Affiliation: Texas A&M University - Corpus Christi

Title: Using Artifacts of Practice to Develop PCK for Teaching Probability

Description: Research on preservice teachers understanding of teaching probability will be shared. Participants will examine artifacts of practice (technology-based task, sample student work, and video) that were used in the research and discuss implications for mathematics teacher education.

Grade Level: Secondary
Type: Activity Presentation
Length: 60 minutes

1:00 – 2:00

First Name: Sarah
Last Name: Quebec Fuentes
Affiliation: Texas Christian University

Co-Presenter: Loren Spice
Affiliation: Texas Christian University

Title: Bridging the Gap: Building University-High School Collaborations

Description: The session outlines a project which paired undergraduate students, as classroom assistants, with high-school mathematics teachers to develop a model of productive collaboration between the two groups, linking research and practice. The data gathered were used to develop recommendations for participants interested in developing similar programs.

Grade Level: Secondary
Type: Presentation
Length: 60 minutes

2:15 – 3:15

First Name: Trena
Last Name: Wilkerson
Affiliation: Baylor University

Co-Presenter: Sarah Quebec-Fuentes
Co-Presenter: Bill Jasper
Co-Presenter: Winifred Mallam
Co-Presenter: Sandi Cooper
Co-Presenter: Colleen Eddy
Co-Presenter: Elizabeth Ward
Co-Presenter: Judy Taylor

Title: Development of an Algebra Teacher Self-Efficacy Instrument

Description: To address the need for an effective method to assess teacher confidence in reaching all students in algebra, a team of mathematics educators is currently working on the development of an instrument to measure teachers' self-efficacy in teaching algebra. In this work session, participants will engage in the evaluation of instrument items.

Grade Level: Secondary
Type: Activity Presentation
Length: 60 minutes

3:30 – 4:30

First Name: Colleen

Last Name: Eddy

Affiliation: University of North Texas

Title: AMTE-Tx Business Meeting and Poster Sessions

Description: This is the regular business meeting and poster presentations for the Association of Mathematics Teacher Educators of Texas. Members and interested individuals are welcome.

Poster Presentations

Elaine Young – Egg Model for Fraction Concepts and Operations

Layne Heitz – Using Formative Assessment with Pre-service Elementary Teachers to Improve Content Knowledge
and Model Formative Assessment in Mathematics

Lymeda Singleton – Using Paper Folding to Explore Multiplication of Fractions

Barba Patton – Looking Through the Eyes of a Child: Searching for Mathematics

Grade Level: General Interest

Type: Presentation

Length: 60 minutes