



Preconference Sessions at the 2010 AMTE Annual Conference

Thursday Morning, January 28, 2010

The following Preconference Sessions will be held on Thursday morning, January 28, 2010, at the 2010 AMTE Annual Conference at the Hyatt Regency Hotel in Irvine, California. Each session requires pre-registration; information is below. **No onsite registration will be available.** Please contact the organizers for more information.

PRECONFERENCE SESSIONS

Technology Workshop

Developing teachers' mathematics TPACK: Showcasing exemplary technology tools and their uses in mathematics education.

Standards for Elementary Mathematics Specialist (EMS) Teacher

Preparation/Certification

Overview of the Standards for EMS teacher preparation/certification including how to use the recommendations to advocate for EMS.

Developing Preservice and Beginning Teachers' Use of Formative Assessment in the Secondary Classroom

Sponsored by Texas Instruments, AMTE's NTLI Sponsor

Learn how to use networked technology to help preservice and beginning teachers develop their use of ongoing, classroom-level assessment.

NCTM's NCATE Program Reviewer Training Workshop

Learn how to be an NCTM-prepared NCATE reviewer.

Preparing to Teach Mathematics with Technology [PTMT]: Engaging Practices and Materials for Technology-Using Mathematics Teacher Educators

Engage in using NSF-sponsored teacher education materials to prepare middle and secondary mathematics teachers to effectively use technology.

Using Video and Student Work Focused on Children's Thinking to Help Professional Developers Support Elementary School Teachers in Transforming Their Teaching

Draw upon video and written student artifacts to support professional developers working with elementary school teachers

The Mathematical Preparation of Teachers: Developing the Knowledge Base for Teacher Educators (Canceled due to low enrollment)

Discuss how to develop a strong, cohesive, and scientifically reliable body of professional knowledge about what mathematical preparation is needed of teachers and of teacher-educators.

TECHNOLOGY WORKSHOP: Developing Teachers' Mathematics TPACK: Showcasing Exemplary Technology Tools and Their Uses in Mathematics Education

Sponsored by AMTE's Technology Committee

Organizer: Christopher Johnston (cjohnst2@gmu.edu)

Presenters: Christine Browning (christine.browning@wmich.edu), Shannon Driskell (Shannon.Driskell@notes.udayton.edu), S. Asli Ozgun-Koca (aokoca@wayne.edu), Suzanne Harper (harpersr@muohio.edu), Susann Mathews (susann.mathews@wright.edu)

Time: 9:00 a.m. – 12:00 p.m.

Session limit: 50 participants

Description: This session will afford mathematics teacher educators the opportunity to:

- Experience, minds-on, various technology tools appropriate for mathematics education
- Discuss with other educators issues surrounding the use of technology
- Discuss activities that take advantage of the technology and promote mathematics Technology, Pedagogy, and Content Knowledge (TPACK).

Various technology tools will be showcased by members of the AMTE Technology Committee and other experienced mathematics teacher educators.

To Register: Indicate your interest on the AMTE Conference Registration Form.

Standards for Elementary Mathematics Specialist (EMS) Teacher Preparation/Certification

Sponsored by AMTE, the Brookhill Foundation & CISCO Learning

Organizers: Terry Goodman (Goodman@ucmo.edu) & Maggie McGatha (maggie.mcgatha@louisville.edu)

Presenters: Hyman Bass, University of Michigan; Robert Berry, University of Virginia; Nadine Bezuk, San Diego State University; Diana Erchick, Ohio State University; Terry Goodman, University of Central Missouri; Maggie McGatha, University of Louisville; Denise Mewborn, University of Georgia; Barbara Reys, University of Missouri; Nicole Rigelman, Portland State University; Joanne Rossi Becker, San Jose State University; Kathy Stumpf, Brookhill Foundation

Additional Speakers: Francis (Skip) Fennell, McDaniel College; Jon Wray – Howard County Public Schools, MD

Time: 8:00 a.m. – 12:00 p.m.

Session limit: 50 participants on site. Participants can also access the session via an on-line broadcast.

Participants choosing this option will be provided with technical information that can be used to access the broadcast (see below).

Description: The AMTE Elementary Mathematics Specialists (EMS) project group will share an overview of the *Standards for EMS Teacher Preparation/Certification* including how to use the recommendations to advocate for EMS. An overview of two ongoing EMS projects will also be shared (Elementary Math Specialists & Teacher Leaders (EMS & TL) Project and the K-5 Mathematics Specialists Academy). Session participants will have an opportunity to provide feedback on the *Standards for EMS Teacher Preparation/Certification*.

To Register: Indicate your interest on the AMTE Conference Registration Form. There is no charge to attend, but pre-registration for the session is required.

To register for the online broadcast of the EMS preconference session, email AMTE2010@ciscolearning.org.

Developing Preservice and Beginning Teachers' Use of Formative Assessment in the Secondary Classroom

Sponsored by Texas Instruments, AMTE's NTLI Sponsor

Presenter: Allan Bellman, Ph.D., Mathematics Education, Supervisor of Teacher Education, University of California, Davis

Time: 8:30 a.m. – 11:30 p.m.

Session limit: 40 participants

Description: Participants will see how networked technology has been used to help pre-service and beginning teachers develop their use of ongoing, classroom-level assessment. Participants will review algebra lessons, modeled after classes from members of the UC Davis 2009-2010 pre-service cohort, and review assignments used to develop teacher's formative assessment skills. Discussion will center on how pre-service teachers are using assessment to meet individual student needs and provide some level of differentiated instruction. While TI-Nspire™ technology and the TI-Nspire Navigator classroom learning system will be used, non-technology tools for assessment will also be discussed.

To Register, or for further information: There is no charge to attend this session. To register, e-mail knicolosi@ti.com and provide the following information: Name, affiliation, e-mail address, telephone, and in a sentence or two, please describe your interest in this session.

NCTM's NCATE Program Reviewer Training Workshop

Sponsored by the National Council of Teachers of Mathematics

Organizer/Presenter: Monique Lynch (mlynch@nctm.org)

Time: 8:30 a.m. – 12:00 p.m.

Session limit: 30 participants

Description: This session is designed to prepare potential mathematics education program report reviewers for the current NCATE system. This session would also be useful to existing reviewers who want to learn the latest information about the process. A completed reviewer application is required in order to participate in this session.

To Register: E-mail nctmncate@nctm.org and indicate that you are interested in attending reviewer training on January 28. There is no charge to attend, but the completion of an application and pre-registration for the workshop are required. For more information, see <http://www.nctm.org/ncate.aspx>.

Preparing to Teach Mathematics with Technology [PTMT]: Engaging Practices and Materials for Technology-Using Mathematics Teacher Educators

Sponsored by the National Science Foundation grant # DUE-0817253

Organizers/Presenters: Hollylynne Lee (Hollylynne@ncsu.edu) and Karen Hollebrands (Karen_hollebrands@ncsu.edu)

Time: 8:00 a.m. – 12:00 p.m.

Session limit: 30 participants

Description: Participants will engage in using NSF-sponsored teacher education materials to prepare middle and secondary mathematics teachers to effectively use technology. The materials aim to develop teachers' TPACK in an approach that integrates content, pedagogy and technology. Materials to be discussed focus on Data Analysis and Probability topics using *TinkerPlots* and *Fathom*. Participants will be provided with access to the materials and have the opportunity to become involved with a national collaborative network. See <http://ptmt.fi.ncsu.edu>.

To Register: Participants will need to bring a laptop with access to *TinkerPlots* and *Fathom* (evaluation versions available for download). There is no charge to attend. Interested attendees should register at <http://ptmt.fi.ncsu.edu/amte10>. Questions can be directed to hollylynne@ncsu.edu.

Using Video and Student Work Focused on Children's Thinking to Help Professional Developers Support Elementary School Teachers in Transforming Their Teaching

Sponsored by the National Science Foundation grant # ESI-0455785

Organizer/Presenter: Randy Philipp (RPhilipp@mail.sdsu.edu)

Presenters: Vicki Jacobs (VJacobs@mail.sdsu.edu), Lisa Lamb, SDSU (Lisa.Lamb@sdsu.edu), John (Zig) Siegfried, SDSU (ziggafoss@hotmail.com), Bonnie Schappelle, SDSU (BSchappe@sunstroke.sdsu.edu)

Time: 8:30 a.m. – 12:00 p.m.

Session limit: 40 participants

Description: In this interactive session, based on results from a large-scale study in which we found that teachers change along a variety of dimensions after engaging in sustained professional development, we will draw upon video and written student artifacts to support professional developers working with elementary school teachers. We will discuss characteristics of video and written student work that effectively engage teachers in discussions of children's mathematical thinking as a basis for their teaching. Video and written student work used during the session will be available for future use by participants. The general session outcome is that participants will reconsider the what, how, and why of using artifacts with teachers.

To Register: There is no charge to attend this session. To register, e-mail RPhilipp@mail.sdsu.edu and provide the following information: Name, affiliation, e-mail address, telephone, and in a sentence or two, please describe your interest in this session.

The Mathematical Preparation of Teachers: Developing the Knowledge Base for Teacher Educators (Canceled due to low enrollment)

Sponsored by the Coordination Working Group for the Network on the Mathematical Preparation of Teachers (MPT-Net)

Organizers: Virginia (Ginny) L. Keen, University of Dayton, Mary Louise Metz, Indiana University of Pennsylvania, Clyde Greeno, The MALEI Mathematics Institute.

Time: 8:00 a.m. – 12:00 p.m.

(Reception at 8:00; Challenge at 8:30; task work 9:00-11:15; then Forum until noon.)

Session limit: 50 participants

Description: This session furthers the MTE community's development of a strong, cohesive, and scientifically reliable body of professional (MPT) knowledge about what mathematical preparation is needed of teachers and of teacher-educators – and about how best to instill such knowledge. The session promotes and facilitates efforts of pre-existing MPT working groups – and activation of new MPT working groups. Participants will cluster into special-interest discussion groups to review progress and develop plans. For details, visit <http://wg-mpet.wikidot.com/2010-amte-pre-session>

To Register: E-mail mpt-net@mathematicsinstitute.org and state your wish to attend the MPT preconference session at the 2010 AMTE Conference. If you wish to join a NEW MPT working group or to create one, so indicate and specify the special-interest area – and visit <http://wg-mpet.wikidot.com/what-is-an-mpt-working-group>. Members of pre-existing MPT working groups also should send copies to the respective coordinators of those working groups.