

SSMA Presentations
November 13-15, 2008 (as of 15 Aug 2008)

1st Author Name	Title	Type	Scheduled Time
Amirshokoohi, Aidin	Pre-service Teachers' Views and Perceptions Toward Environmental and STS Issues	25 min	Friday 11:35-12:00
Amirshokoohi, Aidin	Inquiring into Changes in Matter: pre-service teachers' conceptions and attitudes toward inquiry	25 min	Thursday 4:25-4:50
An, Song	Using School Math and Everyday Math to Measure and Estimate Irregular Figures Area	25 min	Friday 11:35-12:00
Anderson Sr., Christian	Urban Mathematics Teachers' Beliefs about African American Students in its influence on Instructional Practice	50 min	Thursday 10:35-11:25
Aslan-Tutak, Fatma	Impact of a Mathematics Methods Course: Stories of Preservice Elementary School Teachers' Geometry Learning	50 min	Thursday 1:30-2:20
Balka, Don S.	Algebra for All: What Ideas Have Changed in Our SSMA Message?	50 min	Friday 3:15-4:05
Barrow, Lloyd H.	Understanding About Shadows	50 min	Friday 9:30-10:20
Becker, Jerry P.	Open-Ended Problems that fit into the Elementary-Middle School Curriculum – With Extensions (Useful Handouts)	50 min	Thursday 3:15-4:05
Berlin, Donna F.	Integrating Science and Mathematics Education Using Place-Based Pedagogy	50 min	Thursday 9:30-10:20
Bhattacharyya, Sumita	The Importance of Proper Research Design: A Critical Evaluation of an Inquiry-based Project	50 min	Friday 9:30-10:20
Bilica, Kim	Taxonomy of Teaching Evolution: Critically Examining Our Teaching Strategies	50 min	Friday 8:30-9:20
Bisogno, Janet L.	Roller Coaster Physics	Workshop	Saturday 10:45-12:15
Blanchard, Meg	Comparing Two Methods of Technical Support for Teachers: Videoconferencing versus Face-to-Face	25 min	Thursday 2:30-2:55
Boehmer, Ray F.	Teaching the Nature of Scientific Theories	50 min	Thursday 3:15-4:05
Brasell, Heather	Challenges to Integrating Math and Science in Methods Courses	50 min	Thursday 1:30-2:20
Brown, Lisa	Living and Working in Space	Workshop	Friday 1:30-3:00
Brown, Lisa	Learning to Fly	Workshop	Saturday 8:45-10:15
Brown, Lisa	NASA Resources in the Classroom	50 min	Saturday 10:45-11:35
Brown, Sue	The Use of Assessment Data for Course Improvement	25 min	Friday 3:15-3:40
Browning, Sandra T.	The Effects of the Use of Explicit Number Names on Mathematical Understanding	50 min	Saturday 9:45-10:35
Burton, Megan	Teacher Leaders Sustaining Inquiry and Integration in Mathematics and Science	25 min	Thursday 2:30-2:55
Cage, Kathleen	Have a Ball Exploring Parabolas	Workshop	Saturday 8:45-10:15
Cakiroglu, Erdinc	Eighth Grade Turkish Students' Skills in Translating Among Different Representations of Algebraic Concepts	25 min	Thursday 2:30-2:55
Cakiroglu, Jale	The Interplay between Learning Environment, Epistemological Beliefs, Learning Approaches and Gender	25 min	Thursday 3:15-3:40
Cappetta, Robert	Initiates for Reflective Abstraction	50 min	Thursday 3:15-4:05
Chamblee, Gregory	Georgia's New High School Mathematics Curriculum: What is It?	50 min	Thursday 8:30-9:20
Chen, I-shin	The Study of integrating hands-on activities into science courses for fifth graders	25 min	Thursday 2:30-2:55
Chen, Xi	Examining Middle Grade Prospective Teachers' Knowledge Growth for Teaching Division of Fractions with Concept Map	50 min	Saturday 9:45-10:35
Cianca, Sherri	Soap, Birdhouses, and Discovery Boxes: Inquiry-Based Learning in Community	25 min	Thursday 3:15-3:40
Cicmanec, Karen B.	Survey development: A little <i>Art</i> and a little <i>Science</i> .	Workshop	Friday 10:35-12:05
Cobbs, Georgia	Probeware: The Sport Utility Vehicle for Mathematics & Science Integration	Workshop	Friday 8:30-10:00
Columba, Lynn	"Affective Teaching" to Learn Science: What is the Relationship between Practice and Achievement?	50 min	Thursday 10:35-11:25
Conn, Angie	Eliciting NCTM process standards through mathematical letter writing	25 min	Thursday 4:25-4:50
Cooper, Sandi	Discrete or Continuous: Fraction Models for Young Students	50 min	Friday 3:15-4:05
Cooper, Sandi	Math in the Museum: An Exploration of Mathematical Thinking in Informal Learning Environments	25 min	Thursday 4:25-4:50
Cooper, Susan J.	Integrating Reading and Inquiry in Secondary Science and Math Classrooms	50 min	Thursday 10:35-11:25
deGroot, Cornelis	Picture Perfect Squares	Workshop	Thursday 8:30-10:00
Drake, Bob M.	Changing Teachers' Emphasis in Mathematics	50 min	Thursday 1:30-2:20
Eddy, Colleen M.	Establishing Validity of the MTEBI for Incoming Preservice Elementary Teachers	50 min	Friday 9:30-10:20
Edenfield, Kelly	Analyzing the Mathematics Tasks Used in Secondary Classrooms	Workshop	Saturday 10:45-12:15
Edenfield, Kelly	Designing Experiences for Pre-Service Teachers in the Face of Reform	25 min	Saturday 9:15-9:40

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Emenaker, Charles	Making a Mess of Math!	Workshop	Friday 1:30-3:00
Force, Crista M.	Life Stories of Scientist with Learning Disabilities	50 min	Friday 8:30-9:20
Forrester, Jennifer H.	Assessing Middle School Students' Estimation Ability: The influence of directionality, haptics, and graphically embedded objects	25 min	Thursday 3:15-3:40
Francis, Raymond	Making the Connection: effective models for integrating mathematics and science	50 min	Friday 9:30-10:20
Fraser-Abder, Pamela	What we need to understand before we can teach Science. Math for ALL	50 min	Thursday 8:30-9:20
Gardner, Grant E.	Nanotechnology in Undergraduate Education: Preparing Future Developers, Appliers, and Communicators of Nanoscience	25 min	Thursday 3:50-4:15
Harkness, Shelly S.	Informing Mathematics and Science Integration Professional Development: Teachers' Models, Definitions, and Constraints	50 min	Friday 1:30-2:20
Harrell, Pamela E.	Robert Noyce Scholarship Program: Recruitment, Training, and Evaluation of Math and Science Teachers	25 min	Friday 2:30-2:55
Hecimovic, Tony	A Two-Year Project to Increase Elementary Mathematics Knowledge of Teachers and Their Students	50 min	Saturday 8:45-9:35
Hines III, Mack T.	Using Black Parental Professional Development to Increase the Mathematical Achievement of African American Students	50 min	Saturday 9:45-10:35
Holmes, Shawn Y.	Using computer simulations to assess ethical sensitivity: A movement toward professionalism	25 min	Thursday 11:35-12:00
Jeanpierre, Bobby	Building an Inquiry Mathematics and Science Professional Learning Community	50 min	Thursday 9:30-10:20
Jiang, Zhognhong	The Team-Teaching of a Mathematical Modeling Course for Pre-Service Teachers	25 min	Thursday 4:25-4:50
Jones, M. Gail	Learning About Scale: A Retrospective Look	25 min	Thursday 11:35-12:00
Kamen, Michael	The San Gabriel River Trail Project: Promoting Collaborative Research between the University and the Local Community	25 min	Friday 4:25-4:50
Kazempour, Mahsa	Impact of an Inquiry Professional Development Experience on Teachers' Core Conceptions	25 min	Thursday 3:50-4:15
Keene, Karen	Give Students a New MINDSET: Operations Research Mathematics for High School	50 min	Thursday 9:30-10:20
Kelly, Catherine	Rethinking Curriculum Design in Young Children's Emerging Numeracy Skills	50 min	Saturday 8:45-9:35
Kim, Kyoung-Tae	Assessing Assessment: Teachers' Perspectives and Implications	25 min	Friday 4:25-4:50
Klerlein, Jacob T	A critical look at mathematical play with technological tools: Actions and perceptions	50 min	Saturday 10:45-11:35
Koch, Janice	"Ecology Disrupted" describes the use museum materials in secondary science units.	50 min	Thursday 9:30-10:20
Kosko, Karl W.	Is Mathematics Discussion Effective: Interesting Results from a National Data Set and What They Might Mean	50 min	Saturday 10:45-11:35
Krebs, Denise	The Incorporation of Nanoscience into Chemistry Lessons Involving Ice Cream	25 min	Thursday 4:25-4:50
Kwok, Angela	Engineering Activities for the Elementary Student	50 min	Friday 10:35-11:25
La Fata Almendral, Caterin	Studying the implementation of math infused middle school science and technology lessons	50 min	Friday 10:35-11:25
LaFramenta, Joanne	Authentic assessment of preservice elementary school teachers in a mathematics methods course	50 min	Saturday 10:45-11:35
Lashley, Terry	Using Data Analysis to Target Student Science and Mathematics Learning Opportunities	Workshop	Thursday 1:30-3:00
Lee, Hyonyong	A Survey on High School Students' Perceptions about Earth Environmental Problems	25 min	Friday 3:15-3:40
Leou, Mary	The Hudson River Estuary as a Context for K-12 Professional Development	50 min	Thursday 10:35-11:25
Li, Yeping	Conceptualizing and Organizing Content for Teaching and Learning in Chinese, Japanese, and Singapore Mathematics Textbooks	25 min	Saturday 11:45-12:10
Lin, Cheng-Yao	Should there be one and only one way to do multiplication?	50 min	Saturday 9:45-10:35
Maxwell, Sheryl	Making Connections through Activity-Based Mathematics Centers	50 min	Thursday 3:15-4:05
McCloskey, Andrea	Using Video-Based Predictions to Assess Preservice Teachers' Knowledge of Students' Math and Science Thinking	50 min	Friday 1:30-2:20
Metheny, Dixie	Lesson Study at the College Level	50 min	Friday 10:35-11:25
Miller, Brant G.	Model Eliciting Activities (MEAs): The Contextualization of Mathematics and Science	Workshop	Friday 10:35-12:05
Miller, Ken	A Structure to Promote Science Inquiry in Montana Classrooms: The PRISM Grant	50 min	Thursday 8:30-9:20
Milton, Katie	Fifth Grade African American Females' Positionality as Mathematics and Science Learners	50 min	Saturday 1:45-2:35
Mitchell, Johanna	Oceans Eleven: Using Whales to Integrate Eleven Subject Areas	25 min	Friday 11:35-12:00
Moch, Peggy L.	Analyzing the Facts: What's the Probability	50 min	Friday 10:35-11:25
Mohr, Doris	Service Learning as a Component of Elementary Teacher Preparation	25 min	Friday 4:25-4:50
Moseley, Christine	The Draw-An-Environment Test and Rubric (DAET-R) as a valid assessment of environmental beliefs	25 min	Friday 3:50-4:15
Mwakapenda, Willy	Justifications and counter-justifications for integrating mathematics and other school disciplines	50 min	Friday 10:35-11:25

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Naizer, Gil	What did we do right? Follow up conversations with TxCETP Scholars	25 min	Thursday 11:35-12:00
Nesmith, Suzanne J.	Utilizing Contextual Problems to Determine Preservice Educators' Understanding of Operation Problem Structures	50 min	Friday 8:30-9:20
Nie, Bikai	How Does a Standards-Based Curriculum Differ from a Traditional Curriculum?	50 min	Saturday 1:45-2:35
O'Donnell, Patti	Student Teacher Demographics and Beliefs: Do They Affect Science Inquiry Implementation?	25 min	Thursday 4:25-4:50
Park, John	Video-Tape Measurements of Physical Events	25 min	Friday 4:25-4:50
Polly, Drew	Supporting standards-based mathematics in elementary classrooms	25 min	Thursday 4:25-4:50
Popejoy, Kate	Using Podcasts in a Nature of Science Context in an Elementary Science Methods Course	25 min	Thursday 11:35-12:00
Ramsey, Sarah J	Transitional Kindergarten Students' Attitudes towards Science	25 min	Saturday 9:45-10:10
Ramsey, Sarah J.	Using Reflection to Understand Inquiry	25 min	Friday 4:25-4:50
Reed, Carol J. S.	Writing in Algebra to Promote Reflection and Mathematical Understanding	50 min	Saturday 1:45-2:35
Reid-Griffin, Angelia	Science Math Academy: Using Literacy across Subject Areas to explore Global Issues	25 min	Friday 2:30-2:55
Reid-Griffin, Angelia	Science Math Academy: Using Inspire Data to Learn about Graphing	25 min	Friday 3:15-3:40
Robertson, Laura	Unpacking the Kit: How do Elementary Science Kits Affect Classroom Culture?	25 min	Friday 4:25-4:50
Robison, Sally A.	Lesson Study Design Project that works for Mathematics & Science Teachers	50 min	Friday 1:30-2:20
Rock, Daryl	What can math teachers of African American students learn from schools in the Caribbean.	50 min	Friday 1:30-2:20
Roth, Kathleen	Science Teachers Learning From Video Analysis of Practice: Impact on Student Learning	50 min	Saturday 10:45-11:35
Rush, Steven	Challenging Your Elementary Students to Act Like Scientists is Easier Than You Think	50 min	Friday 3:15-4:05
Russo, Maria	Collaboration of middle school math, science, and technology teachers through professional development	Workshop	Thursday 10:35-12:05
Sandh, Manpreet	Explanation of Floating and Sinking by 8th Graders and University Students	25 min	Friday 11:35-12:00
Scantlebury, Kathryn	Factors impacting high school teachers' and students chemistry achievement	50 min	Thursday 1:30-2:20
Schell, Vicki	Complex Numbers? "i" love 'em!	50 min	Thursday 10:35-11:25
Schmidt, Diane L.	Lesson Planning Formats in Mathematics Education Courses	50 min	Saturday 1:45-2:35
Sexton, Susan	Discourse in the Standards-based Classroom	Workshop	Thursday 1:30-3:00
Shores, Melanie L.	Exploring pre-service teachers' perceptions of student attributions in mathematics.	25 min	Thursday 2:30-2:55
Slykhuis, David A.	Increasing Physical Science Achievement with Lego	25 min	Saturday 8:45-9:10
Steele, Bridget J.	Fun with Financial Literacy	50 min	Saturday 1:45-2:35
Stuessy, Carol	SERGE: Emergence of a New Model Integrating Science Education Research and Graduate Education	50 min Panel	Thursday 1:30-2:20
Stuessy, Carol	PlantIT and PlantingScience: Two Professional Development Opportunities to Work with Plant Scientists	Workshop	Thursday 8:30-10:00
Taylor, Amy R.	What factors influence the understanding of a concept of scale	25 min	Friday 2:30-2:55
Telese, James	Teacher Professional Development in Mathematics and Student Achievement: A 2005 NAEP Analysis	25 min	Friday 2:30-2:55
Thanheiser, Eva	Developing Mathematical Reasoning Skills in a Middle and High School Physics Context	25 min	Thursday 3:50-4:15
Thomas, Julie	From Dissertation to Promotion and tenure: A Survivor's Guide	50 min	Friday 1:30-2:20
Thompson, Ruthanne	On Developing a Longitudinal Research Agenda for Mathematics and Science Teacher Preparation	50 min	Friday 3:15-4:05
Toole, Cece	Soaring to Understanding Using the Learning Cycle	50 min	Thursday 8:30-9:20
Utley, Juliana	Strategies to Increase Student Understanding of Multiplication and Division of Fractions	Workshop	Friday 8:30-10:00
Wagner-Krankel, Mary	Integrative Math and Environmental Science Lessons Using the TI-83 Plus	50 min	Friday 8:30-9:20
Watson, Jan	EXPECT, DIENES, InSPIRE-InSTRUCT	50 min	Friday 9:30-10:20
Weinburgh, Molly	Delicate Empiricism: Goethe's science of nature	25 min	Friday 3:50-4:15
White, Arthur L.	Professional Development and the Professional Environment for Teaching	50 min	Thursday 8:30-9:20
Wise, Kevin C.	Physical Science Teaching Strategies – Literature Based Recommendations	25 min	Friday 11:35-12:00
Wu, Zhonghe	Balanced teaching and balanced learning – Middle school mathematics – concept, computation, and application	50 min	Friday 8:30-9:20
Zambo, Debby	How Children Make Sense of Mathematics in their Brain	25 min	Friday 3:50-4:15

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Zambo, Ron	Project MIDL: Distance Education for Middle School Mathematics Teachers	25 min	Friday 4:25-4:50
Zambo, Ron	Mathematics Methods for Elementary Education Majors: A Conversation About Technology Integration	50 min	Saturday 8:45-9:35
Zinicola, Debra A.	Integrating math and science in lessons for elementary and middle school students	Workshop	Thursday 10:35-12:05
Zoller, Uri	The Imperative Paradigms Shift in Stems Education and Research for Sustainability	50 min	Thursday 9:30-10:20
Zollman, Alan	Synergy: An Integrated Degree to Advance STEM at the University & Public School	25 min	Thursday 11:35-12:00
Zollman, Alan	Rocky and Bullwinkle: A look at tenure, promotion, publishing, grantmanship, and happiness.	25 min	Friday 2:30-2:55
Zollman, Alan	Past Presidents Roundtable	50 min	Saturday 8:45-9:35