



MAA Project NExT

NEW EXPERIENCES IN TEACHING

Program - San Antonio, 2015 JMM

Sessions (all in room 217D - more complete information below):

- * Project NExT Lecture, Ruminations on Learning to Teach; Developing Pedagogical Intimacy, Productive Persistence, and Other Aspects of Critical Pedagogy, **Uri Treisman**, Sunday, 2:00 – 2:50 pm.

- * **Integrating Active Learning in Everyday Lessons** (panel discussion, including Matt Boelkins, Suzanne Doree and Ann Stewart), Saturday, 2:00-3:15pm.
- * **Preparing a Successful Grant Application** (panel discussion, including Mansoor Haider, Deanna Needell, Victoria Powers and Adriana Salerno), Saturday, 3:30-4:45pm
- * **Engaging in Undergraduate Research: From Funding to Publishing** (panel discussion, including Casey Douglas, Christine Kelley, Darren Narayan and Cindy Wyels), Sunday, 8:00-9:15am.
- * **Scholarship of Teaching and Learning: What Is It and How Does One Do It?** (panel discussion including Thomas Banchoff, Jackie Dewar - author of a relevant recent book, Ed Herman and Ann Stewart), Sunday, 3:15-4:30pm.
- * **Starting Outreach Programs at Your University** (panel discussion including Bruce Bayly, Christine Kelley, Perla Myers and Harold Reiter), Monday, 9:30-10:45am
- * **Mathematics in Partnership: Examples of Interdisciplinary Teaching** (panel discussion including Laurie Heyer, Bill Kronholm, Glenn Ledder, and Nancy Neudauer), Tuesday, 9:30-10:45am.

- * **Young Mathematicians' Network / Project NExT Poster Session**, Sat. 2:15-4:15, Exhibit Hall C.

Social Events:

- * **Legacy of R.L. Moore Project - Educational Advancement Foundation** (in partnership with Project NExT) Reception. Sat. Jan. 10. 6:30-8:30pm. Lone Star Salon C. 2nd Floor Grand Hyatt
- * **Project NExT Reception** (open to Fellows, consultants, and all friends of Project NExT). Monday, Jan. 12. 8-10pm. Marriott Alamo Ballroom D

Project NExT Lecture - Uri Treisman
Sunday, 2:00-2:50 pm.

Ruminations on Learning to Teach: Developing Pedagogical Intimacy, Productive Persistence, and Other Aspects of Critical Pedagogy

Title: Integrating Active Learning in Everyday Lessons

Time: Saturday, 2:00 - 3:15 Room: 217D

Panelists:

Matt Boelkins, Grand Valley State University
Suzanne Doree, Augsburg College
Ann Stewart, Hood College

Abstract:

The growing body of research articles in mathematics education research, and more generally the scholarship of teaching and learning, all agree that using active learning will increase student knowledge retention, improve comprehension, and positively impact other important educational and engagement goals. But how can you move from philosophically supporting active learning to actually using it in your classroom? Rather than comprehensive pedagogical shifts (such as a flipped classroom or inquirybased learning), this panel will focus on the nuts and bolts of developing active learning for your everyday classroom (bitesize ideas). Panelists will present tips, tricks and pitfalls (to avoid) for turning current lesson plans, assignments and course objectives into more meaningful, engaging classroom activities.

Organizers:

Alyssa Armstrong, Wittenberg University
Laura Plunkett, Holy Names University
Karl Schmitt, Valparaiso University
Nathan Warnberg, University of WisconsinLa Crosse

Title: Preparing a Successful Grant Application

Time: Saturday 3:30 - 4:45 Room: 217D

Panelists:

Mansoor Haider, North Carolina State University
Deanna Needell, Claremont McKenna College
Victoria Powers, Emory University
Adriana Salerno, Bates College

Abstract:

For many, obtaining grants is a meaningful and rewarding experience that is essential to advancing one's career. In this session, our panelists will discuss a wide range of opportunities for obtaining funds that support the varied aspects of academia: teaching, research, program development, and outreach. Perspectives from the view of an applicant, an external reviewer, and a program director, will be shared. In particular, the panel will address how early career faculty, or those with little grant writing experience, can craft successful proposals.

Organizers:

Alden Gassert, University of Colorado Boulder
Anna Haensch, Duquesne University
Amanda Mangum, Niagara University
David Shuman, Macalester College

Title: Engaging in Undergraduate Research: From Funding to Publishing

Time: Sunday, 8:00 - 9:15am Room: 217D

Panelists:

Casey Douglas, St. Mary's College of Maryland
Christine Kelley, University of Nebraska Lincoln
Darren Narayan, Rochester Institute of Technology
Cindy Wyels, California State University Channel Islands

Abstract:

Panelists from various institutions will present ideas about undergraduate research. Panelists will share their strategies for finding funding sources that support undergraduate research. They will share their views on how to choose projects that make sense in the busy lives of undergraduate students. We will ask them how they gauge their timeline and what the "right" timeline is for an undergraduate research project. After research with an undergraduate is complete, we want to know where are good journals to publish results and what venues are available to present these results. The panelists will share with us how they make these decisions also.

Organizers:

Katie Anders, University of Texas at Tyler
Jeremiah Bartz, Francis Marion University
Edward Kim, University of Wisconsin La Crosse
Heather Moon, St. Mary's College of Maryland

Title: Scholarship of Teaching and Learning: What Is It and How Does One Do It?

Time: Sunday 3:15 - 4:30 Room: 217D

Panelists:

Thomas Banchoff, Brown University
Jacqueline Dewar, Loyola Marymount University
Edwin Herman, University of Wisconsin Stevens Points
Ann Stewart, Hood College

Abstract:

Four panelists from varying research backgrounds will present insights and reflections on their transition to, and subsequent work in, Scholarship of Teaching and Learning (SoTL). Participants can expect to gain a better idea of what SoTL is, as well as what background is needed to become acquainted with the field. The goal of this panel is to provide attendees information about starting research in SoTL or expanding their current pedagogical research. Participants should leave with ideas of where to look for information on current topics and resources to begin their own research. Panelists will also discuss advice for incorporating SoTL into a department's current research interests along with addressing Institutional Review Board (IRB) requirements and approval.

Organizers:

Amanda Harsy, Lewis University
Thomas L. Madsen, Youngstown State University
Cory PreviteJohnson, California State University, San Bernardino
Tharanga Wijetunge, Lyon College

Title: Mathematics in Partnership: Examples of Interdisciplinary Teaching

Time: Tuesday, 9:30 - 10:45am Room: 217D

Panelists:

Laurie Heyer, Davidson College
Bill Kronholm, Whittier College
Glenn Ledder, University of Nebraska Lincoln
Nancy Neudauer, Pacific University

Abstract:

Mathematical skills are integral to the study of science, technology, and engineering, and there are also deep connections between mathematics and other nonSTEM fields. This panel discussion will explore the logistics and the practice of teaching an interdisciplinary course with a core mathematics component. The panel will describe experiences of instructors from mathematical sciences departments who have taught or cotaught interdisciplinary courses. Panelists will address questions about the development of the courses at various stages, including the course motivation, administrative aspects of introducing an interdisciplinary course, funding considerations, and organizational details. The panel will also provide ideas about assessment in collaborative courses and course sustainability concerns.

Organizers:

Katie Haymaker, Villanova University
Wanwan Huang, Roosevelt University
Daniel Maroncelli, Concordia University St. Paul
Matt Welz, University of Wisconsin Stevens Point

Title: Starting Outreach Programs at Your University

Time: Monday, 9:30 - 10:45am Room: 217D

Panelists:

Bruce Bayly, University of Arizona
Christine Kelley, University of Nebraska Lincoln
Perla Myers, University of San Diego
Harold Reiter, University of North Carolina at Charlotte

Abstract:

Outreach is often listed as a departmental objective without an ongoing strategy for engaging with the community or guidance on how new faculty might start such programs. This panel will feature faculty from a variety of colleges and universities discussing the different outreach programs they have organized at their schools. They will discuss practical considerations including funding opportunities, as well as the diverse outreach formats that have succeeded around the country.

Organizers:

Jessie Hamm, Winthrop University
James Ricci, Daemen College
Daniel Schultheis, University of Minnesota
Mutlara Sondjaja, New York University