Electronic Seminar on Mathematics Education
http://math.mit.edu/seminars/esme
2017–2018

Sep 12  Curated Courses in Mathematics
Petra Bonfert-Taylor, Dartmouth
Sara Eichhorn, University of California, Irvine
David Farmer American Institute of Mathematics
Jim Fowler, Ohio State University

Sep 26  Rolling the dice: Flipping an introductory probability and statistics class
Jerry Orloff and Jon Bloom, Massachusetts Institute of Technology

Oct 10  Mathematical manipulatives: The MIT Mathlets
Haynes Miller and Jennifer French, Massachusetts Institute of Technology

Oct 24  From lecture to active learning: Rewards for all, and is it really so difficult?
David Pengelley, Oregon State University

Nov 7   MAA’s Instructional Practice Guide: Introduction to a new resource
Beth Burroughs, Montana State University

Nov 21  Transforming the gateway: Redesigning large introductory-level courses
Teena Gerhardt, Michigan State University

Dec 5   Active learning at Penn: 2013–2017
Robin Pemantle, University of Pennsylvania

Dec 19  Supporting graduate students for successful teaching experiences
Emily Braley, Harvard University and Duke University
Robin Gottlieb, Harvard University

Feb 6   Impacting students’ practice of mathematics, especially at critical moments
Dev Sinha, University of Oregon

Feb 20  Active learning 2.0: Making it inclusive
Darryl Yong, Harvey Mudd College

Mar 6   The Illinois Geometry Lab: Fostering a culture of undergraduate research
and community engagement in mathematics departments
Jeremy Tyson, University of Illinois at Urbana-Champaign

Apr 3   Mathematics emporium with adaptive technology
Andrew Tonge, Kent State University

Apr 17  A radical approach to calculus
David Bressoud, Macalester College

May 1   The Inquiry Oriented Differential Equations Project
Chris Rasmussen, San Diego State University

May 15  Inquiry based learning calculus
Angie Hodge, University of Nebraska Omaha
2018–2019

Sep 18  Rising to the challenge of diversifying the mathematics community
        Allissa Crans, Loyola Marymount University
        Dave Kung, St. Mary’s College of Maryland

Oct 2   Active Calculus
        Matt Boelkins, Grand Valley State University

Oct 16  Educating the future professoriate:
        Summer Institute for Graduate Teaching Assistants
        Catherine Snyder, Peter Turner, Seema Rivera, Clarkson University

Oct 30  The College Mathematics Instructor Development Source (CoMInDS):
        Supporting faculty who provide professional development
        to the next generation of college mathematics instructors
        Jack Bookman, Duke University
        Natasha Speer, University of Maine

Nov 13  Ask. Don’t tell.
        Alfonso Gracia-Saz, University of Toronto

Nov 27  Teaching students to communicate as mathematicians:
        threshold concepts and their application at MIT
        Susan Ruff, Massachusetts Institute of Technology

Dec 11  A mathematics learning community on inclusive teaching
        Gavin LaRose, University of Michigan

Feb 5   Inquiry and engagement in an interactive classroom
        Annalisa Crannell, Franklin and Marshall College

Feb 19  Redesigning a large linear algebra service course – a travel report
        Philipp Hieronymi, University of Illinois at Urbana-Champaign

Mar 5   Teaching probability and statistics from a purely Bayesian point of view
        Sanjoy Mahajan, Olin College of Engineering

Mar 19  Video textbooks in the active learning classroom
        Mike Weimerskirch, University of Minnesota

Apr 2   Inquiry based learning at Michigan
        Ralf Spatzier, University of Michigan

Apr 30  Active learning in calculus at Cornell
        Steve Bennoun and Tara Holm, Cornell University

May 14  Managing college group work and creating groupworthy tasks
        Eric Hsu, San Francisco State University
Sep 10  Course-based undergraduate research experiences: Two examples  
Sunil Chebolu, Illinois State University  
Haynes Miller, Massachusetts Institute of Technology

Sep 24  A focus on student buy-in: Why it matters and what to do about it  
Stan Yoshinobu, California Polytechnic State University

Oct 8  Student-centered assessment of mathematical proficiency  
Benjamin Braun, University of Kentucky

Nov 5  Integrating sustainability into the mathematics curriculum  
Bree Ettinger, Emory University

Nov 19  Incorporating service-learning into math courses  
Sara Billey, University of Washington

Dec 3  Co-creating interactive online exercises  
Annoesjka Cabo, Delft University of Technology

Feb 4  A scalable hybrid introductory ODE course  
Dave Levermore, University of Maryland, College Park

Feb 18  Who are we?: On the diversity and demographics of the mathematics community  
Ron Buckmire, Occidental College

Mar 17  Active learning online: A panel discussion  
Rick Cleary, Babson College  
Rachel Levi, MAA  
Mike Weimerskirsch, University of Minnesota

Mar 31  TPSE’s top ten things every online instructor should do  
Abbe Herzig, AMS  
Dave Kung, TSPE

Apr 7  Keep it active: Engaging students in virtual classrooms  
Rena Levitt, Minerva Schools at KGI

Apr 14  Calculus in context: Introducing calculus ideas through epidimeology models  
Eric Stade, University of Colorado, Boulder

Apr 28  Project-based learning  
Rachel Levy, Mathematical Association of America

May 12  What mathematical knowledge improves high school math teaching?  
Yvonne Lai, University of Nebraska, Lincoln

May 26  Reliable classification of classroom practices using lecture recordings  
George Kinnear, University of Edinburgh