

Mathematics TeacherEducators

A Special Interest Group of the Association of Teacher Educators

2020 ATE Meeting at Atlantic City, NJ

Tuesday, February 18, 2020

4:00 - 6:00 Meeting room _____

Special Dynamic Session

First Presentation: “Orange - A Powerful Open-Source Software Program for Mathematics Learning”

Description: Presenters will discuss the challenges mathematics teacher educators face: real-life math problems; demonstrate Orange, an open-source software program for math data presentation; utilize different tools in Orange to solve problems by using real data; share experience in teaching and researching Orange.

Presenters: Dr. Ming Zhang, Dr. Xiaoping Li, Dr. Philip Lundquist, Professors of Teacher Education, Central Michigan University, Mount Pleasant, MI

Second Presentation: “Addressing Planning for Instruction and Instructional Strategies in Secondary Math Methods Courses”

Description: Teacher educators, particularly those who teach mathematics methods, are tasked with supporting preservice mathematics teachers in planning instruction and instructional strategies. The presenters will share an overview of a study related to how mathematics teacher educators focus on these topics in secondary mathematics methods courses.

Presenters: Dr. Ryann N. Shelton, Visiting Lecturer, Baylor University
Dr. Trena L. Wilkerson, Professor of Education, Baylor University, TX

Third Presentation: “Beyond Manipulatives: 3D Design and Printing for Mathematics Teachers and Educators”

Description: We explore and envision the use of 3D design and printing in mathematics teacher education through hands-on activities. Using design examples, we address student engagement, modeling, art, literacy, nature of mathematical reasoning, and interdisciplinary collaboration in integrating design and maker technologies in teacher education.

Presenter: Dr. Lingguo Bu, Associate Professor of Mathematics Education
Southern Illinois University Carbondale

