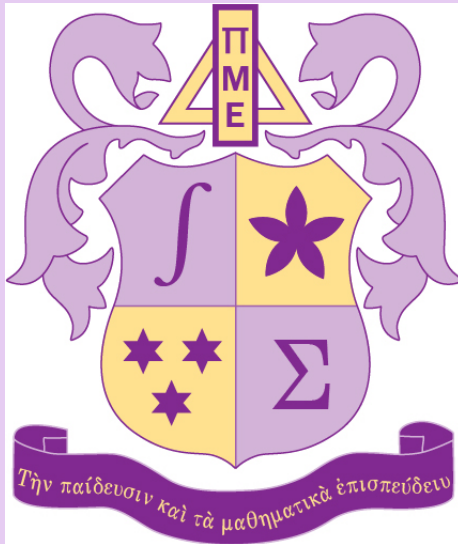


Upcoming Conferences

Undergraduate Mathematics Club
Kent State University

Spring 2017





The Society's Goals:

- ▶ To elect members on an honorary basis according to their proficiency in mathematics
- ▶ To promote activities that enhance the mathematical and scholarly development of its members



The History of Pi Mu Epsilon

- ▶ Founded at Syracuse University on December 8th, 1913
- ▶ Named using Greek letters stemming from the Greek words for scholarship (Pi), mathematics (Mu), and promotion (Epsilon)
- ▶ Incorporated on May 25th, 1914. Re-incorporated in 1988.
- ▶ A national society comprised of local chapters at colleges and universities.
- ▶ Currently there are 389 chapters in 48 states and the District of Columbia. (Missing: Wyoming and Hawaii)
- ▶ Each chapter is designated by its own Greek Letter and a chapter number.
- ▶ The Ohio Epsilon Chapter (chapter 58) was chartered at Kent State University in 1956



The Society Council

- ▶ Angela Spalsbury, Ohio Xi at Youngstown State University (President)
- ▶ Paul Fishback, Michigan Iota at Grand Valley State University (President-Elect)
- ▶ Eve Torrence, Virginia Iota at Randolph-Macon College (Past-President)
- ▶ Stephanie Edwards, Michigan Delta at Hope College (Secretary-Treasurer)
- ▶ Brigitte Servatius, Massachusetts Alpha at Worcester Polytechnic Institute (Journal Editor)
- ▶ Councilors
 - ▶ Chad Awtrey, North Carolina Nu at Elon University
 - ▶ Jennifer Beineke, Massachusetts Kappa at Western New England University
 - ▶ Darci Kracht, Ohio Epsilon at Kent State University
 - ▶ Ben Ntatin, Tennessee Epsilon at Austin Peay University



Activities of the National Organization

Financial support for various organizations:

- ▶ American Mathematics Competitions
- ▶ American Regional Mathematics League
- ▶ Mathematical Association of America (MAA) National Meeting Poster Session



Chapter Grants:

- ▶ Matching Prize Grants (\$100)
- ▶ Matching Conference Grants (\$300)
- ▶ Richard A. Good Lectureship Grants (\$500)



Activities of the National Organization

The *Pi Mu Epsilon Journal*



- ▶ Published in the fall and spring of each year
- ▶ Cash prizes for student-authored articles
- ▶ Problem section: pizza party for institution with most correctly solved problems

“This award had a MAJOR impact on my vision for a research career.” Robert Devaney, Boston University, MAA Past-President



The Ohio Epsilon Chapter

- ▶ Inductions will be held in April
- ▶ Applications available in March
- ▶ Requirements:
 - ▶ Completed at least the equivalent of two semesters of calculus and two additional courses in mathematics, at or above the calculus level, all of which lead to the fulfillment of the requirements for a major in the mathematical sciences.
 - ▶ Have maintained the equivalent of a grade point average of at least 3.0 on a 4 point scale in all mathematics courses that lead to the fulfillment of the requirements for a major in the mathematical sciences.
 - ▶ Have maintained the equivalent of a grade point average of at least 3.0 on a 4 point scale in all courses that lead to the fulfillment of the requirements for an undergraduate degree.
- ▶ Membership is for life!



The Youngstown State University Regional Pi Mu Epsilon Conference



Saturday, February 25, 2017

9:30 am – 2:00 pm

includes breakfast and lunch

open to all undergraduate and high school students

FREE!



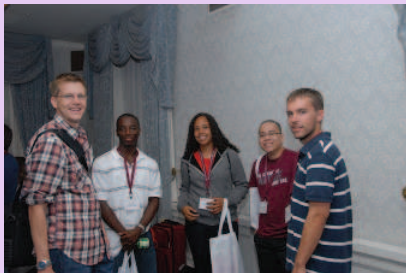
The 2017 National Pi Mu Epsilon Conference



in conjunction with MAA MathFest 2017
July 26–29
Chicago, IL



PME-MAA Opening Student Reception



Student Presentations at the National PME Meeting

Fifteen-minute talks may be expository on material most undergraduates have not seen in their classrooms or on new research accomplished while an undergraduate.



Student Presentations at the National PME Meeting

Sample titles from previous conferences:

- ▶ Computational Models of Congressional Redistricting
- ▶ Exploring Leibniz's Infinitesimals
- ▶ Integer Compositions Applied to the Probability Analysis of Blackjack and Infinite Deck Assumption
- ▶ A Quantitative Analysis of SIR-type Malaria Models
- ▶ Mathematical Manipulatives from 3D Printing
- ▶ Using Independent Bernoulli Random Variables to Model Gender Hiring Practices



Activities Sponsored by the Mathematical Association of America

- ▶ Math Jeopardy
- ▶ *Zombies and Calculus: A Survival Guide*, Colin Adams, Williams College
- ▶ *Games Mathematicians Play*, Christopher Swanson, Ashland University
- ▶ Panel Session: *Non-Academic Mathematical Career Paths for Undergraduates*
- ▶ Estimation!
- ▶ Student Poster Sessions and Other Undergraduate Activities



Pi Mu Epsilon Banquet and Awards Ceremony



Awards for Student Talks at the National PME Meeting



Talks are judged, and cash prizes (\$150) are awarded by several professional organizations:

- ▶ The American Mathematics Society
- ▶ The MAA Special Interest Groups on Mathematical Biology and Environmental Mathematics
- ▶ The American Statistical Association
- ▶ The Society for Industrial and Applied Mathematics
- ▶ Budapest Semesters in Mathematics





Professor Ingrid Daubechies, Duke University



Travel Funding for PME Student Speakers

- ▶ PME provides transportation support for up to 5 student speakers from each Chapter: up to \$600 per student with a \$1200 per Chapter maximum.
- ▶ PME also provides each student speaker with stipend to help defray lodging and food expenses. (approx \$250 each)
- ▶ **Almost all PME student speakers receive travel and sustenance grants.**



Travel Funding for MAA Student Speakers

- ▶ MAA provides travel funding (up to \$750) for student presenters
- ▶ At most one student from each institution or REU can receive full funding; additional such students may be funded at a lower rate.
- ▶ We will coordinate the KSU student speakers to maximize funding. (*Do not submit an abstract, register, or apply for funding yourself.*)



PME Student Speakers (2015)



KSU Student Speakers (2015)



PME Student Award Winners (2015)



Student Survey Comments

- ▶ “This event has served as an inspiration to continue my pursuit of mathematics, through great talks and math community.”
- ▶ “MathFest is an excellent opportunity to expand your mathematical knowledge, meet distinguished mathematicians, and learn about careers in your field. It was a wonderful and fun experience and you should definitely participate.”
- ▶ “I would tell students that they should participate and give a talk. It has been a memorable and great experience that will help me in several ways in the future.”



Tuesday, March 21

1:00 – 5:00 pm

Prizes awarded by category

Abstract submission deadline: February 1

