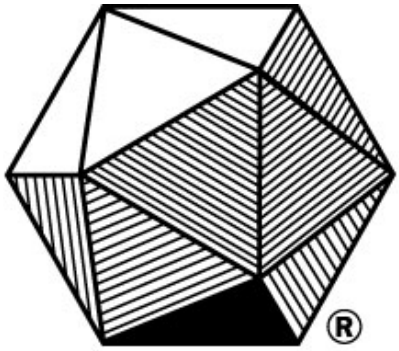

MAA

MATHEMATICAL ASSOCIATION OF AMERICA

79th Annual Meeting of the Oklahoma-Arkansas Section

The University of Oklahoma
6–8 April 2017

MAA Core Interests:
Education
Research
Professional Development
Public Policy
Public Appreciation

OK-AR Section website
http://sections.maa.org/okar/

Executive Committee
2016–2017

Amy Schachle, Past Chair	Anita Walker '17, Secretary
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vacant, 1st Vice-Chair	Michael Lloyd '18, Communications Director
Jeanine Myers, 2nd Vice-Chair	Lisa Mantini, July '14–June '17, Governor

Notes

PHSC stands for Physical Sciences Center.
Friday afternoon time blocks were assigned by the OU Office of Classroom Management.

Abbreviations for OK-AR Institutions Represented in the Program Book

ATU	Arkansas Tech University
CU	Cameron University
ECU	East Central University
HSU	Henderson State University
HU	Harding University
LU	Langston University
OBU	Oklahoma Baptist University
OC	Oklahoma Christian University
OSSM	Oklahoma School of Science and Mathematics
OSU	Oklahoma State University
OU	University of Oklahoma
RCC	Redlands Community College
SE	Southeastern Oklahoma State University
SNU	Southern Nazarene University
TU	University of Tulsa
UA	University of Arkansas
UAM	University of Arkansas at Monticello
UAPB	University of Arkansas at Pine Bluff
UAFS	University of Arkansas at Fort Smith
UCA	University of Central Arkansas
UCO	University of Central Oklahoma

Thursday, 6 April 2017

16:00-19:00 **SECTION NExT**, **PHSC Room 1105**

17:00-20:00 **REGISTRATION**, **PHSC Room 232**

18:00-20:00 **TEAM JEOPARDY COMPETITION**, **PHSC Room 108 and PHSC Room 201**

20:30-24:00 **INDIVIDUAL INTEGRATION BEE**, **PHSC Room 201**

Friday, 7 April 2017

8:00-17:00 **REGISTRATION, BOOK SALES, REFRESHMENTS (afternoon only), PHSC Room 232**

8:30-11:30 **SECTION NExT, PHSC Room 1105**

8:30-11:00 **STUDENT WORKSHOP, Bizzell Library Room 339**

A Mathematical Road Trip: Revisiting the Familiar and Exploring the New
Frank Wang (OSSM)

Abstract In this talk, the speaker will revisit familiar concepts like fractions, and he will provide each audience member a free manipulative that he believes is the only one that clearly and intuitively demonstrates fraction division. He will also show how concepts from higher math, such as group theory, can be presented in a fun and interactive way. For example, he will present his Group Theory with Fruits program, a zany and fun introduction to group theory using fruits as group elements which he has taught on live cable TV. He will also do demonstrations of mathemagics such as approximating π from random counting numbers shouted out by audience members and finding the missing digit in a large multiplication problem. Sprinkled in the talk will be a philosophical discussion of the raison detre of mathematicians and a light introduction to Galois theory. The talk will contain much humor and include ample interaction with the audience.

Bio Frank Wang earned the AB in math from Princeton University in 1986 and the PhD in pure math from the Massachusetts Institute of Technology in 1991. He has taught students at MIT, University of California at San Diego, University of Oklahoma, and Oklahoma School of Science and Mathematics. He is the coauthor of a widely used high school textbook in Calculus, which was published in 1988 and is now in its second edition. Formerly, he served as Chairman and CEO of Saxon Publishers. (He worked with founder John Saxon at his dining room table as a teenager). He has been a popular speaker at math teacher conferences and has spoken to around 30,000 teachers. Currently, he serves as the second president of the Oklahoma School of Science and Mathematics, which is a selective public residential school for high-achieving junior and senior high-school students from throughout Oklahoma.

8:30-11:00 **FACULTY WORKSHOP, Bizzell Library Room LL 118 (on lower level)**

Math Pathways: A Focus on Statistics

Abstract The Charles Dana Center, which is located at the University of Texas at Austin, is dedicated to implementation of alternate mathematics pathways for general-education students. Many universities and colleges in both Arkansas and Oklahoma are currently partnering with this Center. The faculty workshop at last year's Oklahoma-Arkansas Section Meeting was focused on quantitative literacy, but this workshop will explore the need for statistical reasoning and skills required by academic majors outside the science-technology-engineering-mathematics (STEM) disciplines. Participants will be provided up-to-date research and will share in current implementation dialogue regarding the adoption of beginning statistics as an alternate to College Algebra.

Presenters Linus Yu (UAFS)
Rachel Bates (RCC)
Loretta Griffy, Austin Peay State University

11:30-13:00 **SECTION NExT LUNCH, Bizzell Library Room LL 118 (on lower level)**

11:30-13:00 **DEPARTMENT CHAIRS LUNCH, Oklahoma Memorial Union University Club**

11:30-13:00 **FACULTY SPONSORS LUNCH, Bizzell Library Room LL 118 (on lower level)**

UNDERGRADUATE TALKS Session 1, PHSC Room 212 Presiding: Jeanine Myers (ATU)

13:30-13:45 **Equivalence Relations as Mathematical Modeling Tools**, J. Snodgrass (LU), H. Garraway (LU), K. Henderson (LU), S. Johnson (LU)

Mentor A. Bucki, A. Tadesse

Abstract We present several examples of applications of equivalence relations as mathematical modeling tools.

13:50-14:05 **Creating, Implementing, and Assessing an Original Calculus Activity**, Beth Rawlins (UCO)

Mentor Kristi Karber

Abstract I will describe my design of an interactive activity on the Mean Value Theorem and will assess its effectiveness with data obtained from a group of calculus students.

14:10-14:25 **Exploring Square Number Patterns and Binomial Theorem Generalizations**, Nitesh Mathur (TU)

Mentor Kevin O'Neil

Abstract We explore the beauty of square number patterns, generalize the Binomial Theorem, and exhibit applications of other number theoretic phenomena.

14:30-14:45 **Investigating the Energy of Musical Chords**, Mitchell Meyer (OSU)

Mentor Paul Fili

Abstract We describe the relative consonance/dissonance of musical chords as an energy function of the ratios of frequencies of the sound waves.

UNDERGRADUATE TALKS Session 2, PHSC Room 222 Presiding: Nicholas Zoller (SNU)

13:30-13:45 **Combinatorics of Key Sharing**, Michael Linn (ECU)

Mentor Nicholas Jacob

Abstract We will determine a key sharing scheme so that out of n people any k will be able to open a safe. This problem was proposed on the Google application.

13:50-14:05 **Theory of Epidemics: Epidemic Models**, Makayla Cowles (UAPB), Jatryce Bush (UAPB)

Mentor Anna Harris

Abstract We will demonstrate the difference in simple epidemic models and determine the threshold value of each.

14:10-14:25 **Racial and Gender Disparities in Hazard Rates for Cutaneous Melanoma Patients in the United States of America**, Mariama Abramson (CU)

Mentor Jean-Jacques Kengwoung-Keumo

Abstract We investigate the dynamics of racial and gender disparities in cutaneous melanoma hazard rates in the U.S.A.

14:30-14:45 **Application of Spectral Clustering to Non-Convex Datasets**, S. Johnson (LU), J. Snodgrass (LU), H. Garraway (LU), K. Henderson (LU)

Mentor A. Bucki, A. Tadesse

Abstract We present a comparative analysis of the performance of k-means and spectral clustering algorithms on several non-convex datasets.

UNDERGRADUATE TALKS Session 3, PHSC Room 224 Presiding: Cherith Tucker (OBU)

13:30-13:45 **An Analysis of the Prevalence of Septicemia in Oklahoma**, Dominique Digbeu (UCO)

Mentor Tracy Morris

Abstract We present a statistical analysis of hospital discharge records concerning septicemia from 2010 to 2014 that might be related to sewage sludge pollution in Oklahoma.

13:50-14:05 **Exploring Statistics of League of Legends**, Giovanni Bethel (ECU)

Mentor Andrew Wells

Abstract We will examine the data from the 2016 N.A. League of Legends professional regular season. We will highlight statistics leading to the highest win percentage.

14:10-14:25 **Identification of Noise Color via an Infinite-Valued Logic System**, Allie Wynn (UAM), Rebekah Dewitt (UAM)

Mentor Victoria Fox

Abstract Using an infinite-valued logic system, we have developed a rule set in which noise color can be determined in distorted audio samples.

14:30-14:45 **Numerical Experiments Using Mathematica: Modeling Random Genetic Drift in Bacteria**, Tyrone Brock (UAPB), Javaughn Love (UAPB)

Mentor Anna Harris

Abstract In our research we use Mathematica to validate the Markov chain, which is used to model random genetic drift in bacteria.

UNDERGRADUATE TALKS Session 4, PHSC Room 313 Presiding: Myron Rigsby (UAFS)

13:30-13:45 **QoS Parameters of Trajectories for MANET Routing Protocols**, Sajid Rahman (UAPB)

Mentor Anna Harris

Abstract We present a meticulous study on QoS parameters of proactive (OLSR) and reactive (DSR) protocols of MANETs.

13:50-14:05 **Identification of Time-dependent Control Parameters Through Finite Difference Methods in Parabolic PDEs**, Melvin Lipka (CU)

Mentor Narayan Thapa

Abstract In this work, we present numerical experiments on inverse problems which can be applied to medical imaging, nondestructive testing, data mining, and more.

14:10-14:25 **The Knapsack Problem and Optimal Presidential Campaign Strategy**, Robert William Moore (HU)

Mentor Jason Holland

Abstract We use the techniques that are needed to solve the Knapsack problem and apply them to finding an optimal campaign strategy in a presidential election.

14:30-14:45 **Mathematical Modeling: A Unique Approach to Determining Effective Drug Abuse Intervention**, Beth Rawlins (UCO)

Mentor Britney Hopkins, Sean Laverty

Abstract We develop and analyze an epidemiological model of non-user, user, and recovered population dynamics to aid in determining effective drug abuse interventions.

UNDERGRADUATE TALKS Session 5, PHSC Room 316 Presiding: Britney Hopkins (UCO)

13:30-13:45 **Implementation of One-round Key Exchange Protocol**, Samundra Regmi (CU)

Mentor Parshuram Budhathoki

Abstract We will talk about software implementation of the Elliptic Curve-based three-party one-round key exchange protocol using Python.

13:50-14:05 **How Many Unique Baseball Games Could Occur?**, Matthew Breen (UA)

Mentor Ashley Wheeler

Abstract Using a combinatoric approach and certain limitations, we can determine the number of possible outcomes of a baseball game.

14:10-14:25 **Loops in the Complex Plane**, Micah Godfrey (ECU)

Mentor Nicholas Jacob

Abstract We explore transformations of a straight line in the complex plane. We also characterize the number of loops created by simple polynomials.

14:30-14:45 **Chapel Attendance at Southern Nazarene University**, Aaron Couch (SNU)

Mentor Nicholas Zoller

Abstract We find that female students and student athletes are more likely to complete chapel requirements than male students and non-athletes, respectively.

UNDERGRADUATE TALKS Session 6, PHSC Room 356 Presiding: Ron Smith (HU)

13:30-13:45 **Characteristics of Space-Filling Trees**, Nicholas Nelsen (OSU)

Mentor Henry Segerman

Abstract Motivated by the branching structure of the human lung, we generate space-filling trees in 2D and 3D and explore their average path length.

13:50-14:05 **The Permutations Project**, Jace Carpenter (SE), Jacob Graham (SE), Nathan Naylor (SE)

Mentor Charles Matthews

Abstract We attempt to find formulas for lengths and multiplicities of the cycles in the disjoint cycle decomposition of $(1 \cdots n_1)^{k_1} \cdots (1 \cdots n_g)^{k_g}$.

14:10-14:25 **Exploring The AIDS Epidemiology Using Mathematical Models**, Kendyl Washington (UAPB)

Mentor Anna Harris

Abstract We attempt to measure to what degree disease transmission models allocate dependable forecasts for the transmission of HIV/AIDS.

14:30-14:45 **Anticipated Tax Revenue of Marijuana Legalization in Oklahoma**, Kristian Castellanos (ECU)

Mentor Nicholas Jacob

Abstract We will anticipate the revenue generated by legalization of recreational marijuana in Oklahoma by modeling this using two methods based on data from Colorado.

THANK YOU FOR PARTICIPATING, UNDERGRADUATE PRESENTERS!

APPLIED MATH Session 7, PHSC Room 222 Presiding: Brittany Bannish (UCO)

15:00-15:15 **Numerical Experiments Using Matlab: Superconvergence of Conforming Finite Element Approximations**, Anna Harris (UAPB)

Abstract We have verified and supported Wang's L^2 projection methods using Matlab. Wang's method improved both accuracy and computational time.

15:20-15:35 **Experimental Validation of a Stochastic Multiscale Model of Blood Clot Degradation**, Brittany Bannish (UCO)

Abstract We present a math model of blood clot degradation and experimental validation of the model. Implications for stroke treatment are discussed.

15:40-15:55 **An Algebraic-Geometric Approach to the Problem of Estimating the Number of Subspaces in Subspace Clustering**, Abebaw Tadesse (LU)

Abstract We address the problem of estimating the number of subspaces/dimension(s) in subspace clustering, giving particular attention to machine learning applications.

16:00-16:15 **Polynomial Multiplication over Finite Fields**, Parshuram Budhathoki (CU)

Abstract Polynomial multiplication is one of the time consuming operations over Finite Fields. We will focus on polynomial multiplication algorithms.

INSTRUCTIONAL TECHNOLOGY and TEACHING NOTES Session 8, PHSC Room 224 Presiding: David Plaxco (OU)

15:00-15:15 **Case Studies of Virtual Manipulative (VM) and Static Derivative Images**, Katie Burden (UCA)

Mentor Jason Martin

Abstract We explore how VMs may support understanding of the derivative concept by presenting four case studies of students interacting with various images.

15:20-15:35 **Developing Students' Reasoning About the Derivative of Complex-Valued Functions With Geometer's Sketchpad**, Jonathan Troup (OU)

Abstract In my dissertation study, I investigated how Geometer's Sketchpad helped four students reason geometrically about the derivative of complex-valued functions.

15:40-15:55 **Investigating Student Sense-making of Calculus Instructional Videos**, Kayla Waters (UCA)

Mentor Jason Martin

Abstract To what aspects of instructional videos do calculus students attend? This study reports various aspects concerning videos involving rates of change.

16:00-16:15 **Using Geometer's Sketchpad to Explore Linear Transformations**, David Plaxco (OU)

Abstract I will draw on Sfard's (1991) process/object pairs to show how GSP can be used to support students' development of understanding linear transformations.

TEACHING NOTES Session 9, PHSC Room 313 Presiding: Jack Jackson II

15:00-15:15 **Some Favorite Calculus Problems**, Fred Worth (HSU)

Abstract We all have some favorite problems arising in various mathematical subjects. We will look at some of my favorites from calculus.

15:20-15:35 **What is a Trapezoid? The Role of Definition and Classification**, Jack Jackson II (UAFS)

Abstract We will investigate characteristics of definitions and classification schemes for quadrilaterals, including some historical background.

15:40-15:55 **Reflections on PIC Math Training and Teaching**, Sean Laverty (UCO)

Abstract The PIC Math program trains faculty to pursue class projects in business, industry, and government. I will share my experiences as a participant.

16:00-16:15 **Beyond the Product Structure for Definite Integrals**, Courtney Simmons (OSU)

Mentor Michael Oehrtman

Abstract We use Dewey's theory of inquiry to identify productive tools for modeling definite integrals that extend beyond the traditionally studied product structure.

TEACHING NOTES Session 10, PHSC Room 316 Presiding: Paul Howard (OC)

15:00-15:15 **Making College Algebra More Mathematically Rigorous**, Charles Cooper (UCO)

Abstract We will discuss how to make College Algebra more mathematically rigorous, thereby helping students to become better critical thinkers.

15:20-15:35 **Teaching Pre-calculus with a Modified Moore Method: Some Philosophical Considerations**, Paul Howard (OC)

Abstract We will discuss the use of a modified Moore Method for teaching a college pre-calculus course. Philosophical issues will be addressed.

15:40-15:55 **Evolution of a Non-credit Course for Non-STEM Students**, Mary Harper (ECU), Nancy McClain (ECU)

Abstract We focus on multiple pathways to combat retention and the amount of remediation. Additionally we address development, curriculum, and current changes and trends in Oklahoma.

16:00-16:15 **Corequisite Remediation and Math Pathways**, Matthew Wilson (OSU)

Mentor Michael Oehrtman

Abstract We examine the current progress of implementing both corequisite remediation and math pathways in Oklahoma.

15:35-16:30 **EXECUTIVE COMMITTEE MEETING, PHSC Room 430**

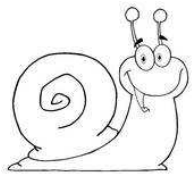
16:30-17:30 R.B. DEAL LECTURE, PHSC Room 201

Unexpected phenomena in high dimensions, Paul Goodey (OU)

Abstract We develop reasonably good instincts about the geometry of two- and three-dimensional Euclidean spaces, and these tend to form the basis for our understanding of higher dimensional geometric phenomena. The typical college linear algebra course reinforces this impression in that it gives us the feeling that simply adding one more dimension to the given situation has relatively little impact other than to possibly cause various calculations to become more complicated. My intention, in this talk, is to try to show that this is very misleading—our low dimensional intuition gives very little insight into the general situation. From some points of view, this should not be too surprising. After all, the jump from one to two dimensions is pretty dramatic and that from two to three can also be quite daunting. I will likely start by trying to investigate your impressions of three dimensional geometry. This is one of those lectures where you will have to talk to me; otherwise, I won't stop! As you will quickly see, I don't particularly want you to get the right answers to my questions, I just want you to think about them. An abstract usually gives some indication of the topics that will be discussed, if I were to do that here, they would not be unexpected, so now I will stop.

Bio Paul Goodey received his B.Sc. in 1968 and his Ph.D. in 1970, both from London University. From 1970 to 1983 he served on the faculty of the Department of Mathematics at the Royal Holloway College of London University. In 1983 he emigrated to the United States to join the faculty of the Department of Mathematics at the University of Oklahoma. During the period 1986-88 he served as Director of the Geometric Analysis Program at the National Science Foundation; from 2000 to 2012 he served as Chair of the Department of Mathematics at the University of Oklahoma. Over the years, he has held various visiting positions at universities in Germany and the United States. In 1992 he was the recipient of the first Oklahoma-Arkansas MAA Award for Distinguished College or University Teaching. At the University of Oklahoma, he was awarded an Edith Gaylord Harper Presidential Professorship in 2000, and in 2014 he received a George Lynn Cross Research Professorship. He retired in December 2016, and he is now trying to remember how to teach.

17:30-18:00 ENJOY A STROLL TO THE ART MUSEUM



18:00-19:30 BANQUET – BUFFET STYLE, OU Art Museum, Sandy Bell Gallery

Tossed Garden Salad	Black Bean and Corn Salad
Chicken Parmigiana	Vegetable Lasagna
Mashed Potatoes with Gravy	Spanish Rice
Stir-Fried Vegetables	Rolls with Butter
Assorted Desserts	Coffee, Tea, Water

19:45-20:45 N.A. COURT LECTURE, PHSC Room 201

Modeling in Prime Time, Susan H. Marshall, Monmouth University

Abstract/Bio A brochure will be available at the Lecture.

Saturday, 8 April 2017

8:00-11:00 **REGISTRATION, BOOK SALES, REFRESHMENTS**, **Price Hall 2nd Floor**

GENERAL Session 11, Price Hall Room 2010 Presiding: Michael Lloyd (HSU)

8:00-8:15 **Stressed-out Intermediate Algebra Students (Part 1)**, Holly Morado (HSU), Michael Lloyd (HSU)

Abstract Anxiety, preparation, and performance are analyzed by measuring the stress hormone cortisol in students' saliva, by assessments, and by psychological surveys.

8:20-8:35 **Stressed-out Intermediate Algebra Students (Part 2)**, Michael Lloyd (HSU), Holly Morado (HSU)

Abstract Anxiety, preparation, and performance are analyzed by measuring the stress hormone cortisol in students' saliva, by assessments, and by psychological surveys.

8:40-8:55 **Solving Latin Squares with Graph Coloring**, Michelle Lastrina (ECU)

Abstract We introduce basic graph theory and demonstrate how to transform a Latin square into a graph coloring problem, then we solve it.

9:00-9:15 **Perspectives on Assessment: Intersection of Purpose and Experience**, Rachel Bates (RCC)

Abstract During this presentation, we will discuss the assessment of student learning outcomes. A review of the overall process and course pass rates will be included.

GENERAL, ANALYSIS, TOPOLOGY Session 12, Price Hall Room 2020 Presiding: Andrew Wells (ECU)

8:00-8:15 **Interesting (at least to me) Facts About Baseball's 500 Home Run Club**, Fred Worth (HSU)

Abstract Statistical oddities are one of the fascinating things about baseball. We will consider some oddities related to the members of the 500 home run club.

8:20-8:35 **Reach for the Sky: How quickly do the heights of regular polygons increase?**, Andrew Wells (ECU)

Abstract We look at the limit of the differences in heights between regular polygons with the same side length.

8:40-8:55 **A New Approach to Integral-Type Operators**, A. Bucki (LU), A. Tadesse (LU)

Abstract We introduce a new operator-theoretical approach to integral-type operators, in particular to products of Mellin-type and Riemann-Liouville-type operators.

9:00-9:15 **The Shape of the Multiverse**, Cherith Tucker (OBU)

Abstract We will explore several possible ways of envisioning a multiverse. Specifically, product spaces and fiber bundles elegantly model the shape of a multiverse.

TEACHING NOTES Session 13, Price Hall Room 3010 Presiding: Adam Molnar (OSU)

8:00-8:15 **Understanding the Concept of Inverse in Abstract Algebra**, Rose Uscanga (OSU)
Mentor John Paul Cook
Abstract In this talk, we discuss an effective way of understanding the concept of inverse in abstract algebra.

8:20-8:35 **Teaching About Conceptions of Independence**, Adam Molnar (OSU)
Abstract Subfields in math do not define the term independence in a consistent way. I present common misconceptions across subfields and offer teaching suggestions.

8:40-8:55 **Schema as a Theoretical Perspective for Undergraduate Topology**, Ashley Berger (OU)
Mentor Sepideh Stewart
Abstract In this talk we present a theoretical framework based on Skemp's idea of schema, in order to investigate undergraduate students' understanding of Topology.

9:00-9:15 **Moving Among the Embodied, Symbolic and Formal Worlds of Mathematical Thinking**, Sepideh Stewart (OU)
Abstract Employing Tall's three-world model, we present specific linear algebra tasks to encourage students to move among the worlds of mathematical thinking.

TEACHING NOTES and INSTRUCTIONAL TECHNOLOGY Session 14, Price Hall Room 3020
Presiding: Jeffrey Beyerl (UCA)

8:00-8:15 **Flipping College Algebra with Open Source Materials**, Nicholas Jacob (ECU)
Abstract We utilized open source software a during a flipped college algebra course in fall 2016. Methods, techniques, successes, and failures will be discussed.

8:20-8:35 **Typing Math in Real Time on a Computer While Teaching**, Jeffrey Beyerl (UCA)
Abstract We claim that typing math while teaching is faster than writing on a whiteboard and it is beneficial for students. Word is not LaTeX, but it's much better than you might think.

8:40-8:55 **Using Open Resources to Teach College Mathematics**, John Watson (ATU)
Abstract We present information concerning using open resources in lieu of a textbook in a general education freshman math course.

9:00-9:15 **Why Pooled Variance in t-test?**, Daiho Uhm (UAFS)
Abstract We present that the pooled variance is the best estimate in an independent sample t-test under equal variance assumptions.

OPEN SESSION Session 15, Price Hall Room 3030

8:00-9:15 The order of talks will be scheduled by the participants.

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11 (Saturday)

9:30-10:35 SECTION BUSINESS MEETING, Price Hall Room 2010

10:45-12:00 MAA SECTION VISITOR LECTURE, Adams Hall Room 150

Solving Problems: MAA American Mathematics Competitions and Evolving Views of Mathematics Education, Michael Pearson, MAA Executive Director

Abstract Through its years as the American High School Mathematics Examination and now as the AMC, MAA competitions programs illustrate the evolving views of what constitutes effective mathematical problem solving, as well as identifying and cultivating mathematical talent. We'll take a leisurely tour through more than a half-century of the Association's efforts to advance mathematics through competitions.

Bio Michael Pearson received a bachelor's degree from the University of Mississippi in 1980, a master's degree from Mississippi State University in 1982, and a Ph.D. (Harmonic Analysis) from The University of Texas at Austin in 1989. Prior to joining the MAA (in 2002), he served on the faculty at Florida International University (1989-1992) and Mississippi State University (1992-2002). As Executive Director, Michael provides leadership to further the mission of the MAA to advance the mathematical sciences. As a long-time member of the MAA, he is delighted to have the opportunity to work closely with colleagues who share the sense of community and common purpose that he sees as the fundamental strength of the Association.

Thank you for coming.

Travel safely.

See you next year in Russellville, Arkansas.
Arkansas Tech University
6–7 April 2018