



Kappa Mu Epsilon National Mathematics Honor Society

KME NATIONAL CONVENTION
April 3 – 5, 2014

Hosted by Alabama Theta Chapter at Jacksonville State University in Jacksonville, Alabama

Participating Chapters:

Alabama Alpha, Athens State University
Alabama Beta, University of North Alabama
Alabama Epsilon, Huntingdon College
Alabama Zeta, Birmingham-Southern College
Alabama Theta, Jacksonville State University
Kansas Alpha, Pittsburg State University
Kansas Beta, Emporia State University
Kansas Delta, Washburn University
Michigan Beta, Central Michigan University
Missouri Beta, University of Central Missouri
Missouri Theta, Evangel University
Pennsylvania Mu, Saint Francis University
Pennsylvania Tau, DeSales University
Rhode Island Beta, Bryant University
South Carolina Delta, Erskine College
Texas Gamma, Texas Woman's University
West Virginia Alpha, Bethany College

*Sponsored in part by:
the American Mathematical Society and
the American Statistical Association*

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COMMITTEES

Awards Committee

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Jessica Willson, Michigan Beta
LeighAnn Sherfey, Missouri Beta
Hope Moorhead, Missouri Theta
Don Tosh, Missouri Theta
Elise Löfgren, Pennsylvania Mu

Resolutions Committee

Derek Newland, Alabama Alpha, Chair
Chris Vaughn, Alabama Alpha
Ethan Francis, Kansas Beta
Dan Wisniewski, Pennsylvania Tau
Art Gorka, South Carolina Delta

Thursday, April 3, 2014

7:00-9:00 p.m.

Ice Cream Social, Trivia, and Photo Scavenger Hunt
Houston Cole Library—11th Floor Conference Center
(Enter through 1103 B—turn right out of the elevators)

Registration packets will be available.

8:00 p.m.

National Council Meeting
Houston Cole Library 1102

Friday, April 4, 2014

8:00 - 9:00 a.m.

Registration and Breakfast
Houston Cole Library 1103 B

8:30 a.m.

Awards Committee Meeting
Houston Cole Library 1102

9:00 a.m.

First General Session
Houston Cole Library 1103 A

Welcome and introductions
Welcome

Rhonda McKee, President, Kappa Mu Epsilon
Dr. William A. Meehan, President,
Jacksonville State University

Roll call

Mark Hamner, Secretary, Kappa Mu Epsilon

Filing of delegates

Brian Hollenbeck, President-Elect, Kappa Mu Epsilon

Old business
Introduction of new business

9:30 a.m.

Student Presentations, Session #1
Houston Cole Library 1103

1-1 "The Rubik's Cube in the Mathematics Classroom"

Christopher Vaughn, Alabama Alpha
Athens State University

1-2 "Benefit Reserves in Actuarial Mathematics"

Summer Lyons & James Wood, Rhode Island Beta
Bryant University

1-3 "First-Order Sigma-Delta Algorithm"

Alexander Dunkel, Alabama Epsilon
Huntingdon College

10:40 a.m.

Refreshment Break

Houston Cole Library 1103

11:00 a.m.

Workshops [Select one of the following]

"Tips for Applying for Graduate School"

Houston Cole Library 1103

Larry Scott, Moderator, Kansas Beta
Emporia State University

Falynn Cartmill Turley, Graduate & Instructor
Jacksonville State University

Amy Bretches, Kansas Beta,
Emporia State University

Phuong Minh N. Do, Pennsylvania Mu
St. Francis University

"Project Math"

Houston Cole Library 1101 C

Tom Leathrum, Alabama Theta
Jacksonville State University

"Coding Theory in your Mailbox"

Houston Cole Library 1101 B

Dale Bachman, Missouri Beta
University of Central Missouri

12:00 noon

Group Picture

Houston Cole Library 1103 B

12:15 p.m.

Lunch

Jack Hopper Dining Hall

Meetings of the National Committees

Resolutions Committee

President's Dining Room

1:15 p.m.

Workshops [Select one of the following]

"Project Math"

Houston Cole Library 1103

Dr. Tom Leathrum, Alabama Theta
Jacksonville State University

“Coding Theory in your Mailbox”

Houston Cole Library 1101 B
Dale Bachman, Missouri Beta
University of Central Missouri

2:15 p.m.

Student Presentations, Session #2

Houston Cole Library 1103

2-1 “Lambda Calculus and its application to functional programming in Haskell”

Adam Petz, Kansas Beta
Emporia State University

2-3 “Colorfully Complex; Visualizing Complex Numbers using Domain Coloring”

Brandon Marshall, Kansas Delta
Washburn University

3:00 p.m.

Refreshment Break

Houston Cole Library 1103

3:15 p.m.

Section Meetings

Student Section, Houston Cole Library 1103
Faculty Section, Houston Cole Library 1101 C

7:00 p.m.

Banquet

Leone Cole Auditorium
(behind/under Jack Hopper Dining Hall)

Welcome
Dinner

Brian Hollenbeck, President-Elect

Keynote Address

“Secrets of Mental Math”
Arthur Benjamin, Harvey Mudd College
Claremont, California

Saturday, April 5, 2014

7:30 - 8:15 a.m.

Registration and Breakfast

Houston Cole Library 1103

8:30 a.m.

Student Presentations, Session #3

Houston Cole Library 1103

3-1 “Calculating Population Centers”

Allison Russell & Kaitlyn Flagg, Alabama Zeta
Birmingham-Southern College

3-2 "An Algebraic Method of Constructing the Zero Divisor Lattice of $\mathbb{Z}/n\mathbb{Z}$ "
Jim Crowder, Alabama Zeta
Birmingham-Southern College

3-3 "Analysis of a Novel Numerical Scheme for GR-type Non-linear Wave Equations"
Huda Qureshi, Alabama Zeta
Birmingham-Southern College

9:40 a.m.

Refreshment Break

Houston Cole Library 1103

Awards Committee Meeting
Houston Cole Library 1102

10:00 a.m.

Career Panel Discussion

Mary Simmons, Protective Life Insurance Co.
Falynn Cartmill Turley, JSU Faculty and
University of Alabama-Birmingham
PhD candidate in biostatistics
Jim Roebuck, Weaver High School
Dale Bachman, Institute for Defense Analysis/
Center for Communications Research

10:45 a.m.

Second General Session

Rhonda McKee, President, presiding
Houston Cole Library 1103

Convention Evaluation Forms
Continuation of new business

Reports of national officers

Dan Wisniewski, Editor, *THE PENTAGON*
Pete Skoner, Historian
Cynthia Woodburn, Treasurer
Mark Hamner, Secretary
Brian Hollenbeck, President-Elect
Rhonda McKee, President

Reports of sectional meetings

Report of Resolutions Committee

Report of the Awards Committee and presentation of awards

Payment of travel vouchers