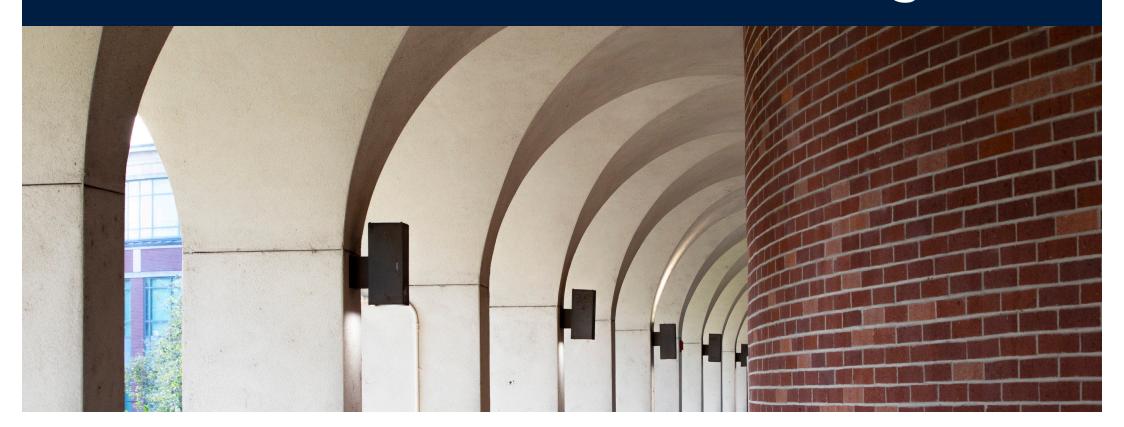# MATHEMATICAL ASSOCIATION OF AMERICA (MAA)
Golden Section Annual Meeting

SATURDAY, FEBRUARY 25, 2023
9:00AM - 5:00PM NEWMAN AUDITORIUM
Onsite registration starts at about 8:30AM
Online registration at: sites.google.com/view/maagoldenmeetings/

The meeting provides a great opportunity to learn about interesting and entertaining areas of mathematics as well as to network with other students and professors. Student presenters recieve complimentary registration and Saturday luncheon, plus a one-year membership to the MAA or (for those who are current members) a free book.

FEATURED SPEAKERS

DR. OMAYRA ORTEGA SONOMA STATE UNIVERSITY
1:45-2:35PM Who are we Serving with our Scholarship: A Covid Model Case Study

Why are publications in peer-reviewed journals one of the most important measures of success in our field? I will give examples of ways to use your research, regardless of the field, in service to your students, your institution, and your community using the example of recent student work in Covid modeling.

DR. EDRAY GOINS POMONA COLLEGE
9:10-10:00AM Clocks, Parking Garages, and the Solvability of the Quintic: A Friendly Introduction to Monodromy

In this talk, we give a gentle introduction to a historical mathematical concept which relates calculus, linear algebra, differential equations, and group theory into one neat theory called "monodromy."

DR. ANASTASIA CHAVEZ ST MARY'S COLLEGE
10:10-11:00AM Matroids, Positroids and Beyond!

Matroids are a fundamental combinatorial object with connections to many areas of mathematics: algebraic geometry, cluster algebra, coding theory, polytopes, physics... just to name a few.

ANTHONY VARILLY-ALVARADO RICE UNIVERSITY
2:50-3:40PM Using geometry to repair data losses: dealing with hard-drive failures in large server clusters

Geometry has a role to play in the design of codes with locality properties. Anthony will explain how to use algebraic surfaces to both reinterpret constructions of optimal codes already found in the literature, and to find new locally recoverable codes.

RICK LUTTMANN SONOMA STATE UNIVERSITY
3:50-4:40PM The Brocard Miracles

French meteorologist Henri Brocard posed a challenge: find points in a triangle with the property that the three segments joining such points to the triangle's vertices make equal angles (in either the clockwise or counter-clockwise direction) with the triangle's sides. The challenge has led to an amazing sequence of almost mystical results

SANTA ROSA JUNIOR COLLEGE