

MAA COMMITTEE ON COMPUTERS IN MATHEMATICS EDUCATION

SATURDAY, 2-AUG-2003
1:00 PM - 2:50 PM
MILLENNIUM HOTEL
BOULDER CREEK BOARD ROOM
BOULDER, CO

AGENDA

- I. Call to Order**
- II. Attendance**
- III. Review of the Minutes of the last meeting.**
- IV. Activities at the current meeting**

a. MAA CP A1 CREATIVE USE OF TECHNOLOGY IN TEACHING MATHEMATICS

Mary L. Platt, Salem State College

Marcelle Bessman, Jacksonville University

Thursday, July 31, 1:00 p.m. - 3:00 p.m.

Friday, August 1, 3:15 p.m. - 5:15 p.m.

This session will focus on innovative uses of technology to support and enhance the learning of mathematics in all college courses. In particular, we are interested in the use of technology to support conceptual understanding and appreciation of the application of mathematical principles to solving real world problems. The session is sponsored by the MAA Committee on Computers in Mathematics Education (CCIME).

b. MAA CP B1 E-LEARNING MATHEMATICS COURSES

Elias Deeba, University of Houston-Downtown

Ananda Gunawardena, Carnegie-Mellon University

Thursday, July 31, 3:15 p.m. - 5:15 p.m.

This session includes papers that deal with methods of design, implementation, delivery assessment, and maintenance of complete e-learning environments, as well as experiences implementing such courses are welcome.

V. Activities planned for the Joint Meetings 2004, Phoenix, AZ, January 7-10, 2004

Uses of the WWW That Enrich and Promote Learning (MAA CP C1)

(Wednesday and Saturday afternoons)

Marcelle Bessman*, Jacksonville University

Marcia P. Birken, Rochester Institute of Technology

Mary L. Platt, Salem State College

Brian E. Smith, McGill University.

This session seeks to highlight uses of the Web and its tools that engage students in the learning process. Tools such as course management systems, digital resources, tutorial systems, and hybrids that combine these functions on the Web can make a difference in student engagement, understanding, and performance. Talks should demonstrate how these technologies are being integrated into the learning process. The session is sponsored by the MAA Committee on Computers in Mathematics Education (CCIME).

Mathlets for Teaching and Learning Mathematics (MAA CP M1)

Thursday afternoon

David M. Strong*, Pepperdine University

Thomas E. Leathrum, Jacksonville State University

Joe Yanik, Emporia State University.

This session seeks to provide a forum in which presenters may demonstrate mathlets and related materials that they have created or further developed. Mathlets are small computer-based (but ideally platform-independent) interactive tools for teaching math, frequently developed as World Wide Web materials such as scripts or Java applets, but there may be many other innovative variations. Mathlets allow students to experiment with and visualize a variety of mathematical concepts, and they can be easily shared by mathematics instructors around the world. The session is sponsored by the MAA Committee on Computers in Mathematics Education (CCIME).

Also as a CPS:

The Effective Use of Computer Algebra Systems in the Teaching of Mathematics (MAA CP G1)

Wednesday afternoon

L. Carl Leinbach*, Gettysburg College

Edward A. Connors, University of Massachusetts.

Computer Algebra Systems (CAS) create an environment for the learning and teaching of mathematics. They can be used to encourage mathematical explorations and to affect the way in which we teach and what material we emphasize. Papers for this session are to discuss one of the following topics: classroom uses of CAS, student projects that use the CAS in a significant way, testing practices that allow the students to use a CAS, or evaluations of the overall use of CAS at a particular institution. It is expected that each presentation, in addition to explaining the use of the CAS, will address the effectiveness of this use in the teaching and learning of mathematics. While proposals for papers dealing with the use of a CAS in any mathematics course are welcome, preference will be given to papers dealing with the use of a CAS in courses other than the calculus sequence. In particular, papers on the use of the CAS in courses such as applied statistics, college algebra, quantitative methods, and the mathematics preparation of teachers are particularly welcome. Note that this session is focused on the use of a CAS, not technology in general. However, the choice of a platform (computer or handheld device) or CAS (Derive, Maple, Mathematica, or other CAS) is that of the presenter.

VI. Discussion and Approval of proposals for MathFest 2004, Providence, RI, August 12-14, 2004

Written proposal may be submitted to the Chairperson who will circulate them via email and make paper copies for the meeting. Proposals submitted at the meeting are also welcome.

VII. Preliminary discussion of proposals for Joint Meetings 2005, Atlanta, GA, January 5-8, 2005

VIII. Response to MAA correspondence.

Committee Name

Committee Charge

Interface with SIGMAA

General Comments

IX. SIGMAA

X. Other

XI. Adjourn