

MAA COMMITTEE ON COMPUTERS IN MATHEMATICS EDUCATION

SATURDAY, 3-AUG-2002

1:00 PM - 2:50 PM

SHERATON BURLINGTON CONFERENCE CENTER

SALES CONFERENCE

BURLINGTON, VT

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, August 1, 1:00 pm - 3:00 pm and

Friday, August 2, 1:15 p.m.-3:15 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, August 1, 3:15 pm - 5:15 pm

This session invites papers that describe e-learning mathematics courses. 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.

This session is sponsored by the Committee on Computers in Mathematics Education (CCIME).

c. MAA SESSION E-LEARNING IN MATHEMATICS: THE GLOBAL CLASSROOM REVISITED

Marcelle Bessman, Jacksonville University

Douglas A. Quinney, University of Keele

Friday, August 2, 2:30 pm - 3:50 pm

The Global Classroom is a "classroom without walls" that supports interaction between students and a "visiting" scholar and among students all gathered in a "classroom" on a virtual campus that resides on a server. It supports synchronous, collaborative use of common software packages including Mathematica(r), Maple(r) and various commonly used software packages, such as word processors and spreadsheets via the web. Control of a

software package opened on one machine can be passed to a person at another machine in another room or even another geographic location. This campus supports audio connectivity in a cooperative learning environment. Sessions can be recorded for review of the session by students or for study by students who missed the session. Presenters will discuss existing e-learning activity in mathematics and demonstrate the Global Classroom as a synchronous/asynchronous mode of course delivery.

V. Activities planned for the Joint Meetings 2003, Baltimore, MD, January 15-18, 2003

(Note email from CCP): The MAA committee on contributed paper sessions have approved the following sessions for the Joint Meetings in Baltimore, Jan. 2003, recommended by CCIME. The committee considered 38 proposals and therefore had to limit the amount of time for some sessions.

"Innovative Uses of the World Wide Web in Teaching Mathematics", Bessman, Smith and Birken
2 sessions.

This is to include the material in the proposal "Mathlets for Teaching and Learning Mathematics", Strong, Yanik and Leathrum

:Computational Mathematics in Linear Algebra and Differential Equations:, Deeba, Marchand and McDevitt
1 session

The proposal considered by CCIME, "Mathematics on the World Wide Web", Sarah Mabrouk was not approved.

a. MAA CP A1 Innovative Uses of the World Wide Web in Teaching Mathematics

Wednesday morning and Thursday afternoon

Brian E. Smith*

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Marcelle Bessman, Jacksonville University

Marcia Birken, Rochester Institute of Technology

Tom Leathrum, Jacksonville State University

David Strong, Pepperdine University

Joe Yanik, Emporia State University

This session seeks to highlight innovative teaching strategies in mathematics that emphasize the use of the World Wide Web as a learning tool. These strategies could include the construction of teaching materials or creative use of existing or standardly available materials. This session will include Java Applets, and other Mathlets used in teaching mathematics.

b. MAA CP Y1 Computation Mathematics in Linear Algebra and Differential Equations

Saturday afternoon

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Elias Deeba, University of Houston-Downtown

Tim McDevitt, Millersville University

Computer algebra systems, spreadsheets and graphing calculators have become popular tools for facilitating numerical investigations of many meaningful problems in Linear Algebra and Differential Equations. Such investigations lead to better students' understanding of mathematical concepts while empowering them with the capabilities to analyze more realistic problems. This session invites papers describing novel projects from these disciplines in which technology is required. Outstanding papers may be considered for publication as part of an MAA collection.

VI. Discussion and Approval of proposals for MathFest 2003, Boulder, CO, July 31 – August 2, 2003.

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 2004, Phoenix, AZ, January 7-10, 2004.

VIII. Math DL/JOMA

IX. SIGMA

Saturday

1:00 - 2:50 pm

Organizational Meeting for a SIGMAA on the Use of the Web in Instruction

Providence Board

X. Other

XI. Adjourn