

MAA COMMITTEE ON COMPUTERS IN MATHEMATICS EDUCATION

SATURDAY, 3-AUG-2002
SHERATON BURLINGTON CONFERENCE CENTER
SALES CONFERENCE
BURLINGTON, VT

MINUTES

- I. **Call to Order:** 1:00 p.m.
- II. **Attendance**
CCIME Members (present): Douglas Ensley, Zsuzsanna Kadas, Roger Nelson, Mary Platt (Chair), Bruce Yoshiwara
CCIME Members (not present): Marcelle Bessman (excused), Marcia Birken, Elias Deeba, Preston Dinkins, Brian Smith, Jeffrey Watt
CCIME friends: Rebecca Hill, Howard Penn
- III. **Minutes:** Approved as read
- IV. **Activities at the current meeting**
 - a. **MAA CP A1 CREATIVE USE OF TECHNOLOGY IN TEACHING MATHEMATICS**
Mary L. Platt reported that the first session, in Emerald Ballroom III, had excellent attendance; the second session, in the UVM Living and Learning Center had less. The talks were interesting (with one exception).
 - b. **MAA CP B1 E-LEARNING MATHEMATICS COURSES**
Doug Ensley reported from Elias Deeba's notes that the sessions had an average of 35 in attendance (28 – 48), with one cancellation. Elias proposes to offer the same session again for MathFest 2003.
 - c. **MAA SESSION E-LEARNING IN MATHEMATICS: THE GLOBAL CLASSROOM REVISITED**
(Marcelle was at the SIGMAA organizational meeting.) Zsuzxanna Kadas and Douglas Ensley both reported seeing low attendance.
- V. **Activities planned for the Joint Meetings 2003, Baltimore, MD, January 15-18, 2003**
Plans are moving forward for the Contributed Paper Sessions listed below. Deadlines posted on MAA online.
 - a. **MAA CP A1 Innovative Uses of the World Wide Web in Teaching Mathematics**
Wednesday morning and Thursday afternoon
Brian E. Smith*
Faculty of Management

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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

Rich Marchand*

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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.

The committee considered three proposals for contributed paper sessions.

- a. Creative Uses of Technology in Teaching Mathematics**, with the same description as used for MathFest 2002. The committee voted unanimously to endorse this proposal.
- b. E-Learning in Mathematics Courses**, with the same description as used for MathFest 2002. The committee voted not to endorse the proposal, because of the argument that the topic was too specialized to run every summer and actually falls within the Creative Uses of Technology proposal.

- c. Elias Deeba has proposed a new session about how technology impacts courses in programs for elementary and secondary teachers of mathematics. The committee voted unanimously to endorse the proposal in principle but recommends further action.
 - 1. Elias should also submit the proposal to COMET.
 - 2. He should reword the proposal to include or clarify that the relevant courses involve both preservice and inservice teachers.
 - 3. He should make explicit that the technology to be discussed could be for the instructor of the course, or for aiding the students to learn material in the course, or for the students' use when they are the instructors.

The committee considered two ideas for minicourses.

- d. A minicourse on how to use java applets from the "Lite Applet Project". Doug Ensley will contact Frank Wattenburg about giving the minicourse. The committee voted unanimously that it would consider endorsement via email for such a minicourse.
- e. A minicourse on how to use built-in features of Excel to mimic applets. Mary will contact Bart Stewart to suggest he consider submitting a proposal for a minicourse for MathFest 2003 or the Joint Meetings 2004.

VII. Preliminary discussion of proposals for Joint Meetings 2004, Phoenix, AZ, January 7-10, 2004.

As noted above, Bart Stewart is to be contacted. Deadlines are the last day of 2003 meeting.

VIII. Math DL/JOMA

Submissions have been slow. The committee will continue to encourage CPS presenters to make submissions.

IX. SIGMAA

The organizational meeting for the SIGMAA on the use of the Web in Instruction was at the same time as this meeting. Marcelle was there to help.

X. Other: none

XI. Adjourn: 2:15 p.m.