

Jan 91

ROCKY MOUNTAIN SECTION OF THE MATHEMATICAL ASSOCIATION OF AMERICA

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1006 11th St., Campus Box 38, Denver CO 80217

Chairperson-Elect: Laurel Rogers, University of Colorado at Colorado Springs,

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Durango, CO 81301

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Campus Box 426, Boulder, CO 80309

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Laramie, WY 82071

This is the First Call for Papers for the meeting of the Rocky Mountain Section of the Mathematical Association

The Section will meet on the campus of the University of Northern Colorado
in Greeley, Colorado on April 12-13.

Our featured speaker will be Professor Deborah Haimo, Chair-Elect of the MAA.

The panels are not established, but three tentative topics for panels are:

Impact of NCTM Standards on College Classrooms

Calculus Reforms; Regional Projects

Math Modeling

Other ideas for panels are solicited. Ideally, someone would volunteer to organize a panel.

Titles of papers to be presented, ideas for other panels, and additional suggestions for activities
at the meetings should be sent to—

Don Elliott (or William Bosch)

Department of Mathematics and Applied Statistics

University of Northern Colorado

Greeley, CO 80639

[ph. (303) 351-2297]

Please encourage students to attend and present papers.

One of the important activities of the annual meeting is the election of officers. This year we
will be electing the position of Chair-Elect of the Section. Any suggestions for nominees should be sent
to Tom Kelley, Metropolitan State College of Denver, PO Box 173362, Campus Box 38, Denver,
Colorado 80217-3363. Tom is the Chair of the Nominating Committee.

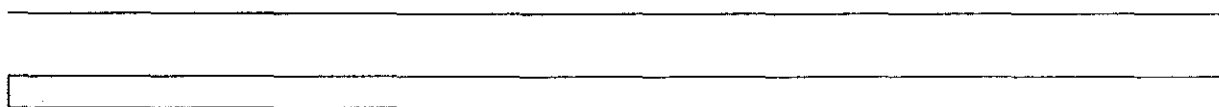
The year, our section meeting coincides with *Mathematics Awareness Week (April 7-13)*.
Colorado Governor Roy Romer will be signing a declaration on February 6th designating that a special
week. The following people will represent the Section at the signing: Gail Gliner, Bill Emerson, George
Donovan, Larry Johnson, Corinne Brase, and Charles Brase. Look for their faces in your local
newspaper. Furthermore, do what you can to promote *Mathematics Awareness Week* locally. Your
department chair should be receiving a copy of Romer's declaration.

Secretary-Treasurer's Corner by Bill Ramaley

In the past, we have usually had exhibits from textbook publishers at the section meeting. At the meeting in Greeley we would like to charge a fee for such exhibits and use the fees to help defray the costs of the meeting. In order to make this possible, would you help me by asking any publishers representatives to contact me if they wish to exhibit at the meeting. Whether or not they wish to exhibit, I would like to have the publishers representatives on the mailing list for the section newsletters. Hence, would you please have your representative contact me for inclusion on the mailing list.

If your department has a student club of the MAA, would you please send me the name of someone in the club to whom I can send our newsletter and can contact about participation in the annual section meeting.

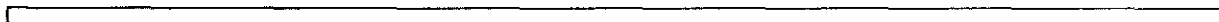
If you have suggestions for the newsletter, let me know.



Request for Speakers.

The joint *CCTM/MAA Lecture Series* needs speakers willing to be available to schools (primarily junior and senior high schools) in Colorado. Speakers must be willing to visit a school less than 50 miles away even if there is no honorarium and the speaker has to pay travel expenses. This has been quite a rewarding program for participants. For further information, please contact

Dr. Ruth Rebekka Struik, Math Dept, Campus Box 426, Univ. of Colorado, Boulder CO 80309
(Phone: Office 492-7683; Home 444-3005)



Summer Short Course at Fort Lewis, June 3-7, 1991

The Rocky Mountain Section of the MAA is sponsoring a short course at Fort Lewis College the week of June 3-7. The course will focus on the use of computer algebra systems in teaching calculus. It will be taught by Dr. Donald B. Small, Professor of Mathematics at Colby College in Waterville, Maine. Additional information will be forthcoming in the next newsletter, or may be obtained by writing Dr. James Wixom at Fort Lewis College, Durango, Colorado, 81301.

News from Departments in the Section

Colorado School of Mines. (from Ardel Boes)

The Pre-Collegiate Minority Education Program was selected as a 1990-91 *Program of Excellence* by the Colorado Commission of Higher Education. A major part of this program is the Teacher Enhancement Program and Young Scholars Program for American Indians directed by Ardel Boes and Barbara Bath, both of CSM Department of Mathematical and Computer Sciences.

South Dakota School of Mines and Technology. (from Karen Whitehead)

New faculty, who joined SDSMT in 1989-90, include

Janet Burgoyne (from Idaho State University),

Sam Berney (from Idaho State University),

Manuel Penaloza (from Arizona State University; originally from Ecuador)

Both Janet and Sam are mathematicians, while Manuel is in Computer Science.

Sailes Sengupta is on leave this year as a Senior Research Fellow at the National Oceanic and Atmospheric Research Laboratory (NOARL) in Monterey, CA, where he is working in the areas of digital image processing and pattern recognition. Ed Corwin and Toni Logar are on leave at Texas Tech, both working on Ph.D.'s in Computer Science.

Ron Weger, who has been with the department for 26 years, is retiring from teaching at the end of this semester in order to pursue his many interests in mathematics and computer science.

In July, SDSMT received an equipment grant (\$259,000) from SUN Microsystems and now has a SUN network consisting of a SUN4/280 server and 5 workstations.

We are experimenting (in a limited way) with the use of *Derive* in our calculus courses and would welcome hearing from anyone else who is doing the same.

University of Southern Colorado (from Melvin Withnell)

New faculty include

Janet Baranett (Ph.D., 1990, from University of Colorado)

Paul Chacon (Ph.D., 1985, from University of Washington; teaching at the University of Southern California from 1985-1990)

On leave for the fall semester of 1990 was John Gill. He traveled to Hungary to participate in the Third International Conference on Approximation Theory. At the conference he presented a paper, "Approximation of Iteration." While on leave he also wrote two other research papers and developed ten senior research projects for our mathematics majors.

Metropolitan State College of Denver (from George S. Donovan)

In late April of 1990, Charles Pine, visited the department. Dr. Pine is the moving force behind the *Algebra Project*, a new curriculum for high school Algebra I. His work is being tested in classrooms throughout the state of New Jersey and students in his *Project* classrooms have shown measurable improvement when compared with comparable students in the same school.

An additional finding of Dr. Pine was that students who postpone algebra do less well in the course. His work was supported by grants from AT&T Foundation and the Ford Foundation. His visit to Metro was sponsored by a System of Colleges Enrichment grant obtained by Ruth Yarar and Jim Loats.

Another visitor to the MSCD campus was Reuben Hersh, the author of *The Mathematical Experience*. He contended that mathematical philosophy was alive and well and that it had outgrown the stage of debating whether mathematics is discovered or created.

A returning faculty member was Patricia Montague, who has taught the past two years at Western Illinois University at Macomb, Illinois.

Two new faculty members are Janet Godfrey (whose masters degree is in education) and Judith Gurka (who recently completed her masters degree in computer science at UCD.) These are full-time, but temporary positions.

Last February, Vern Nelson passed away and a scholarship fund has been established in his memory. While the fund has grown, additional contributions may be sent to George Donovan, Chair, Metropolitan State College of Denver, P.O. Box 173362, Campus Box 38, Denver, CO 80217-3362

Papers were presented at the Spring Meeting of the MAA by George S. Donovan, William Emerson, Gail Gliner, and Joe Raab. In addition, Patricia Montague gave "Abstract Data Types, Objects and Turbo Pascal 5.5" to the 23rd annual Conference of the Association of Small Computer Users in Education; William Emerson gave a talk on "Calculus and *Mathematica* at Metropolitan State College of Denver" to an NSF funded workshop; and Armando Gingras authored the article "Dining Philosophers Revisited" which appeared in the *SIGSCE Bulletin*.

The department now issues the *Denver Metropolitan Journal of Mathematics and Computer Science*. The current issue, of 16 pages, contains a variety of articles and information. For a sample copy write George Donovan at the above address.

POSITION BULLETIN BOARD

(This is a new section, wherein we gladly will list any opening your department may have. The only cost to you is that we ask for a contribution of some information about your department for our *News from Departments in the Section*.) (No new listings. Anyone hiring?)

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Durango, Colorado 81301

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