

April 14, 1993

Jane Heckler
Senior Assistant for Programs
The Mathematical Association of America
1529 Eighteenth St., NW.
Washington, D.C. 20036

Dear Ms. Heckler —

Enclosed in my report on the 1993 meeting of the Rocky Mountain Section. As often happens, the snow started Friday evening and Saturday morning was slushy. But we had a fine meeting in spite of the weather.

Our section voted to honor the top Putnam contestant from the section by a membership in MAA. Can you help in getting this individual identified somehow? Since the academic year is drawing to a close, if we can do something quickly, it would be most helpful to me

Our booksale was a "flop" this year. I've reported on the sale to Ms. Knust. Next year I'm not going to have one because the meeting is so far from here (750 miles) and also far from Denver area and we expect fewer than the usual number of registrants.

The nominees for student memberships will be coming to you later. I left the forms with the student advisors and they will be mailed here to me.

Pardon the handwriting on the officer update, but I did not have time to set the printer to catch all the lines.

Thank you for your assistance. The section would like to thank the national office for supporting the travel by John Kenelly. His presentations were excellent. We do appreciate having someone come and give us an outside perspective on these matters.

Sincerely,

William C. Ramaley, Secretary/Treasurer

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The annual meeting of the Rocky Mountain Section was held April 2-3, 1993, on the campus of the Colorado School of Mines in Golden. The program co-chairs were Ardel J. Boes and Willy A. Hereman. There were approximately 140 registrants.

The keynote address was "Technology in mathematics instruction" by John W. Kenelly of the MAA. Dr. Kenelly also gave the banquet address: "New Moves in Assessment and Educational Accountability."

The program consisted of the following:

Panels on: **Use of Technology and Cooperative Projects in the Classroom**

Mathematica in math courses: Student perspectives

Workshop: **Workshop on Interactive Mathematica Texts**

William Emerson, Metropolitan State College of Denver

Special session in honor of John H. Hodges of the University of Colorado,
organized by A. Duane Porter of the University of Wyoming

Contributed talks.

If "Matrix " means "Womb", Who is the Baby? And Who is the Father?

Janet H. Barrett, University of Southern Colorado

Calculus with Mathematica at Colorado School of Mines, Barbara Bath and Frank Hagin,
Colorado School of Mines

The Driven Pendulum: Theory, Practice and Implications for Control,

Elizabeth Bradley, University of Colorado, Boulder

The Good Bug Problem, David Carlson, Colorado Department of Agriculture

A Development of a Polynomial ADT, Jose Cisneros, Metropolitan State College of Denver

A Comprehensive Game Plan for Calculus Reform. Are we close yet?

Carl Crockett, United States Air Force Academy

The Differential and Matrix Groups, W. Harold Davenport, Mesa State College

The Mathematics of Optics, as Viewed by René Descartes,

Nicolas De Toustain, University of Colorado, Boulder

Computer Simulation-A Capstone Course for Math Majors,

George S. Donavan, Metropolitan State College of Denver

A Case Study Course in Mathematics for Non-science Students,

William S. Dorn and James L. LaVita, University of Denver

A Ring of Lebesgue Integrable Functions, Donald P. Elliot, University of Northern Colorado

Remarks on the Matrix Equation $X^e = B$ over a Finite Field,

John H. Hodges, University of Colorado, Boulder

Some Mathematica Mistakes? Thomas Kelley, Metropolitan State College of Denver

Advanced Programming on the HP-48sx,

Warren W. Kokko, Arapahoe Community College

The Use of Writing in Teaching Mathematics, Steven Leth, University of Northern Colorado

Bachelier's Theory of Speculation, C. G. Mendez, Metropolitan State College of Denver

The Function Minute: An Effort to Teach Basic Function Concepts More Effectively,

Jim Olsen, University of Northern Colorado

J. H. Hodges and Matrix Equations, A. Duane Porter, University of Wyoming

Stable Qualitatively Correct Interpolants for Accurate Data,

Steven Pruess, Colorado School of Mines

Odd Neighbors and Odd Neighborhoods, Leslie E. Shader, University of Wyoming

Why is Bach Out of Tune? John Starrett, Metropolitan State College of Denver

What Should you Know about Continuum and how to Teach about it?

Igor Szczyrba, University of Northern Colorado

(contributed talks, continued-)

Computer Algebra Systems and Visualization in Mathematics,

Louis A. Talman, Metropolitan State College of Denver

Chaos for the Uninitiated, Don Teets, South Dakota School of Mines and Technology

William C. Ramaley, Sec'y/Treas
Rocky Mountain Section MAA

Minutes of Executive Council Meeting and the Annual Business Meeting, Rocky Mountain Section of the MAA. April 3, 1993

Gary Grefsrud, section Chairman, convened the meeting of the Executive Council at Table Mountain Inn 7 am. Also present were Laurel Rogers, Bill Ramaley, Corinne Brase, Jack Hodges, Don Teets, Ardel Boes, Willy Hereman, John Kenelly, C. D. Mendez, Bill Emerson and Tom Kelley

Bill Ramaley gave the summary of the treasurer's report, showing the section had approximately \$1109.35 in Checking and \$3,381.46 in savings (including \$1000 as a Short Course reserve fund.) Known outstanding debts were approximately \$550 to Colorado School of Mines in connection with the ongoing meeting.

Four publishers had each paid \$40 for an exhibitor fee and this was to help pay for the wine/cheese reception preceding dinner. There were doughnuts and coffee Friday afternoon and Saturday morning; these to be paid out of meeting income.

Don Teets, of South Dakota School of Mines and Technology, reported SDSMT was still planning to host the 1994 meeting. The dates are April 15-16.

The nominating committee, chaired by Charles Brase, reported their nominees for 1993-94. For Chair-Elect: Janet Barnett, University of Southern Colorado and Edwin Hawkins of Mesa State College; for Vice-Chair: Gladwin Bartel, Otero Community College and Patricia Hauss, Arapahoe Community College; for Secretary-Treasurer, Bill Ramaley, Fort Lewis College.

Jack Hodges announced that on behalf of the section, he has accepted the offer for an Aid to Sections proposal on getting the section involved with curriculum reform. There will be a panel at the 1994 meeting of the section. John Kenelly suggested we have someone experienced in grant writing chair the panel, but the national office will send a good selection of transparencies and other material which can be used.

The question of the effect of "Amendment 2" (which banned the passage of laws in Colorado prohibiting discrimination based on sexual orientation) was discussed and it was decided (section governor) Jack Hodges would report the action of the national MAA in moving the 1995 meeting from Denver.

We discussed how to go about getting wider nominations for the Distinguished Teaching Award. No resolution.

Gary Grefsrud brought up the "MAA Presidential Initiative for "Grassroots" Action." Baffled by just what the national wanted us to do, and impressed with how the invitation for participation ended up with "In his Retiring Presidential Address in Orlando, Donald Kreider reports on the resounding success of this Initiative." Grefsrud intends to write a letter to the national indicating our section would not participate.

The topic of attendance by a section officer at the summer MAA meeting in Vancouver was brought up.

The meeting closed with discussion about how to involve the NCTM or the Two-Year College Association in a joint meeting. No resolution.

The Executive Committee adjourned at 7:55

Respectively submitted,

William C. Ramaley, Secretary/Treasurer, Rocky Mountain Section MAA

Minutes of Annual Business Meeting, Rocky Mountain Section, MAA, April 3, 1993

Gary Grefsrud, Chair of the section, convened the meeting at 8:10 in the Metal Hall of the Green Center at the Colorado School of Mines

The minutes of the 1992 meeting at Colorado College were accepted as circulated.

Treasurer Bill Ramaley presented a summary of the finances of the section. At the time of the meeting, the section had \$3381.46 in savings and \$1109.35 in a checking account with about \$600 in known debts and expenses incurred in connection with the ongoing meeting as yet unquantified.

The 1994 meeting was announced to be held at South Dakota School of Mines and Technology in Rapid City, South Dakota.

The Nominating Committee put forth Janet Barnett, University of Southern Colorado, and Edwin Hawkins, Mesa State College, for the position of Chairperson-Elect. Janet Barnett was elected. The Committee put forth Gladwin Bartel, Otero Community College, and Patricia Hauss, Arapahoe Community College, for the position of Vice-Chair. Patricia Hauss was elected. Finally, the Committee renominated Bill Ramaley to continue as Secretary/Treasurer. He was elected by acclamation.

Governor Hodges congratulated the section on its support for the Greater MAA Building Fund. A plaque honoring Burton W. Jones, University of Colorado (Boulder) will be placed in the lobby of the MAA building in recognition of our section's members contribution of over \$3000.

The Section gave Gerald Diaz, Air Force Academy, our section's award for Distinguished Teacher. His nomination for the national award was forwarded to the national office.

A discussion ensued on the question of the national officers and Board of Governors moving the 1995 meeting out of Denver because of the Colorado voters approving "Amendment 2" which forbade the passage of laws prohibiting discrimination based on sexual orientation. John Kenelly, of the national office, reported that the national officers had sent letters to Denver Mayor Wellington Andrew Webb and Colorado governor Roy Romer saying that if Amendment 2 is repealed the national officers would "accept later" another offer to come to Denver. Considerable outrage, as well as frustration, was expressed, but no resolution was offered for action.

Following a short discussion, registration fees at future section meetings will be \$2 for students and unemployed persons, \$6 if preregistering, and \$10 at the site of the meeting.

Mesa State College, which last hosted the meeting in 1986, offered to host the 1995 meetings. The section officers were instructed to prepare a new "rotation schedule" plan to be offered at the 1994 meeting for discussion.

The section voted to add the 1993 top scorer on the Putnam exam to our list of free MAA student memberships. Bill Bosch, of the University of Northern Colorado, suggested we also recognize the top scorers on the High School tests. This will be done in some manner, as yet to be determined by the Executive Committee.

In closing the meeting, the Section voted to thank the Colorado School of Mines for its kind hospitality. Appreciation was also extended to Ardel Boes and Willy Hereman for their outstanding organization of the meetings.

Officers for 1993-94 are -- Past Chair: Gary Grefsrud, Fort Lewis College

Chair: Tom Kelley, Metropolitan State College of Denver

Chair Elect: Janet Barnett, University of Southern Colorado

Vice Chair: Patricia Hauss, Arapahoe Community College

Secretary/ Treasurer: Bill Ramaley, Fort Lewis College

Governor of Section: C. G. Mendez Metropolitan State College of Denver

Acting Program Chair: Don Teets, South Dakota School of Mines and Technology

Respectively submitted, William C. Ramaley, Secretary/Treasurer

Mathematical Association of America, Rocky Mountain Section