April Meeting of the Rocky Mountain Section
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The program consisted of the contributed papers, an invited address by Professor R.P. Boas, Governor's report by Elsie Muller, and the business session. D.V. Meyer, Central College, Pella, was elected as the Chairman-elect.

The program, arranged by Ellen Oliver, consisted of the following:

1. *Reciprocals of integers as repeating decimals*, by B.E. Gillam, Des Moines.
2. *Modular instruction in Mathematics at Central College*, by Leland Graber, Pella.
3. *The right constructs for programming*, by R.F. Keller, Ames.
4. *Staying alive as a mathematician while teaching at a two-year college*, by R.H. Lambertson, Boone.
5. *The programmable calculator as a teaching device*, by Don Benbow, Norlin Rober, Don McVay, Marshalltown.
6. *A mathematical analysis of the metropolitan government in Polk County, Iowa*, by A.F. Kleiner, Jr., Des Moines.
7. *Positive invariant closed sets for delay differential equations*, by Y.F. Chang, Ames.
8. *Find polynomial inverses of matrices of rational functions*, by James Bruening, LeMars.

Invited Address: *The Harmonic series and some of its applications*, by R.P. Boas, Past-President, MAA, Editor, American Mathematical Monthly, Northwestern University, Evanston, Illinois.

B.E. GILLAM, *Secretary-Treasurer*

APRIL MEETING OF THE ROCKY MOUNTAIN SECTION

The Sixtieth Annual Meeting of the Rocky Mountain Section of the MAA was held on the campus of Metropolitan State College, Denver, Colorado, April 29-30, 1977. There were 143 registrations, including Forest Fisch, Governor of the Section, Donald Bushnell, Chairman of the Section, and H.O. Pollak of Bell Laboratories. The Banquet address "On the Relationship between Applications of Mathematics and the Teaching of Mathematics" was delivered by Dr. Pollak. Invited addresses were: "A Problem-Solving Course in an Industrial Setting", by Armando Gingras, Metropolitan State College; "A Transition Course Between Calculus and Upper Division Mathematics", by Kent Goodrich, University of Colorado; and "On Shortest Connecting Networks", by H.O. Pollak.

There were twenty-six contributed papers:

1. *Those ubiquitous Catalan numbers*, by R.A. Gibbs, Fort Lewis College.
2. *On the conjugates of $1 - 2|x|$*, by Jan Mycielski, University of Colorado.
3. *Puzzles and graphs*, by Stan Gudder, Denver University.
4. *A radical theory for hemirings and an open problem*, by D.M. Olson, Cameron University.
5. *Certain matrix congruences and $(mod p^n)$*, by T.P. Donovan, University of Colorado.
6. *The conjecture $\pi(x + y) < \pi(x) + \pi(y)$*, by David Ballew, South Dakota School of Mines and Technology.
7. *Ranked solutions of some matrix equations*, by Nick Mousouris, Humboldt State University.
8. *An extremum problem in two independent variables*, by R.S. Fisk, Colorado School of Mines.
9. *Some forgotten topics in analytic geometry*, by D.W. Hardy, Colorado State University.
10. *Sex differences in the learning of mathematics*, by Nancy Angle, University of Colorado at Denver.
11. *On residue class cryptography*, by Ron Whittekin, Metropolitan State College.
12. *Another construction of a strictly increasing, continuous, singular function on $[0,1]$*, by Paul O'Meara, University of Colorado at Denver.
13. *Computer arithmetic and abstract algebra*, by Keith Joseph, Metropolitan State College.
14. *Problem-solving techniques usable in secondary mathematics*, by Melfried Olson, University of Wyoming.
15. *An assessment of the processes used by community college students in mathematical problem-solving with suggestions for teaching*, by Beverly Gimmestad, Metropolitan State College.
16. *Emerging trends in secondary teacher education*, by Earl Hasz, Metropolitan State College.
17. *Some simple applications of statistics in industry*, by M.F. Flynn, Coors Container Company.
18. *Research suggestions in Lanchester combat theory*, by P.M. Ellis, Utah State University.
19. *Mathematical programming solutions to identification problems in mass spectroscopy*, by D.W. Fausett, Colorado School of Mines.

20. *On infinite games, the law of large numbers, and Baire category*, by Celestino Mendez, Metropolitan State College.

21. *A cooperative audio-visual project in mathematics and electrical engineering*, by David Ballew and Ronald Schmitz, South Dakota School of Mines and Technology.

22. *Research results with implications for the teaching of general math*, by Bill Juraschek, University of Colorado at Denver.

23. *Matrices can be useful (and fun)*!!!, by A.D. Porter, University of Wyoming.

24. *The curve parallel to a parabola is not a parabola*, by F.M. Stein, Colorado State University.

25. *Problems in teaching the history of mathematics*, by Burnett Meyer, University of Colorado.

26. *Bye-bye slide rule*, by L.M. Orman, University of Southern Colorado.

In addition to the above papers and addresses, exhibits were presented by the Association for Women in Mathematics, McGraw-Hill Book Company, Macmillan Publishing Company, Inc., Prindle, Weber & Schmidt, Inc., MAA, and Worth Publishers, Inc.

The business meeting was convened on Saturday morning, April 30, 1977, at 8:00 A.M. by Professor Bushnell who presided. Thirty-eight members attended. The minutes of the 1976 meeting were circulated and approved. The Treasurer's report for 1975 and an interim report for 1976 were circulated and approved.

Professor Dean Benson presented the Nominating Committee's slate of nominees; the following officers were elected: Vern Nelson, Metropolitan State College, Chairman; John Hodges, University of Colorado, Chairman-Elect; C.A. Grimm and Dale Rognlie, South Dakota School of Mines and Technology, Program Chairmen.

Christopher Bretherton, of the University of Colorado, and Peter Li, of the University of Southern Colorado, were given memberships to the MAA for their high placement on the Putnam Examination.

Professor Forest Fisch, University of Northern Colorado, gave the Governor's report from the Toronto and St. Louis meetings. Professor George Donovan, Metropolitan State College, Chairman of the High School Lectureship program, presented that committee's report. The Section contributed $100 to the continuance of that program. A written report from the High School Mathematics Contest had been submitted by Professor Robert Vunovich of the University of Southern Colorado.

Professor Vunovich was commended for his service to the Mathematics Contest.

The Section voted to start a newsletter edited by Professor David Ballew, South Dakota School of Mines and Technology.

The meeting concluded with a "rap session" conducted by Dr. H.O. Pollak, Past President of the MAA.

DAVID BALLEW, *Secretary-Treasurer*

APRIL MEETING OF THE WISCONSIN SECTION

The 1977 annual meeting of the Wisconsin Section of the MAA was held on the campus of the University of Wisconsin at Oshkosh on April 29 and 30, 1977. There were 135 registered attendants, including 112 MAA members and 23 students.

At the business meeting some revisions in the section by-laws were passed. The section voted to begin a yearly section newsletter. Based on the success of our first fall workshop on mathematical models, the Section voted to hold a second fall workshop.

The two principal speakers at the meeting were Professor Wolfgang Haken of the University of Illinois and Professor Leonard Gillman of the University of Texas. Professor Haken's talk was: "The Four-Color Problem"; Professor Gillman's talk was: "Choosing a Wife."

The contributed presentations were:

The human side of Gauss, by Merrill Barnaby, University of Wisconsin-LaCrosse.

Sylvester at Hopkins: an American centennial, by John Finch, Beloit College.

The misnamed Gaussian (normal) curve, by Carroll Rusch, University of Wisconsin-Superior.

The pocket calculator in higher education, by Eli Maor, University of Wisconsin-Eau Claire.

Returning theory of equations to the undergraduate curriculum, by C.W. Schelin, University of Wisconsin-LaCrosse.

Trees and maximal outplanar graphs, by A.E. Barkauskas, University of Wisconsin-LaCrosse.