



April Meeting of Rocky Mountain Section

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information about the overall program is available from AAAS Congressional Science Fellow Program, 1776 Massachusetts Avenue, N.W., Washington, C.D. 20036; telephone (202) 467-4475.

The AMS-MAA-SIAM Congressional Science Fellowship is to be awarded competitively to a mathematically trained person at the postdoctoral to mid-career level without regard to sex, race, or ethnic group. Selection will be made by a panel of the AMS-MAA-SIAM Joint Projects Committee for Mathematics with the cooperation and advice of the overall AAAS Program. *Applications should be sent to the Conference Board of the Mathematical Sciences, 1500 Massachusetts Avenue, N.W., Suite 457-458, Washington, D.C. 20005. The deadline for receipt of applications is 15 February 1980. It is anticipated that the award will be made by around 1 April 1980.*

In addition to demonstrating exceptional competence in some areas of the mathematical sciences, an applicant for the AMS-MAA-SIAM Congressional Science Fellowship should have a rather broad scientific and technical background and a strong interest in the uses of the mathematical and other sciences in the solution of societal problems. He or she would also be articulate, literate, flexible and able to work effectively with a wide variety of people. An application should state why the applicant wants to be a Congressional Science Fellow, should summarize his or her qualifications, and should be accompanied by a resume. Also, CBMS should receive by 15 February 1980 three letters from persons knowledgeable about the applicant's competence and suitability for the award.

MATHEMATICAL ASSOCIATION OF AMERICA

Official Reports and Communications

MAY MEETING OF THE INTERMOUNTAIN SECTION

The meeting was held at Idaho State University, Pocatello, on May 4-5, 1979. Chairman was Steven Parker, Idaho State University with committee members T. L. Williams, Idaho State University; S. S. Terry, Ricks College; S. J. Leon, Weber State College; and M. P. Windham, Utah State University. Sessions for presented papers were held Friday afternoon and Saturday morning. Titles and authors are listed below.

The invited guest of honor for the banquet was Dr. James D. Murray, Professor of Mathematics at Oxford University and currently a Visiting Professor at the Massachusetts Institute of Technology, University of Utah and California Institute of Technology. His invited address was: *How the Leopard Got Its Spots and Some Other Biological and Ecological Stories: A Mathematician's View.*

The invited address on Saturday morning was given by Dr. Keith Reed, University of Utah, titled: *The Mathematics of Chance—A Mathematics Course in a Liberal Education Program.*

JUNE MEETING OF THE PACIFIC NORTHWEST SECTION

The Annual Meeting of the Pacific Northwest Section was held June 15-16, 1979 at the University of British Columbia, Vancouver, B.C. in conjunction with meetings of the AMS and SIAM. Highlight of the meetings was Constance Reid's dinner talk, "The Answer to the Question Everyone Asks."

In addition to Mrs. Reid's talk, the following invited addresses were given
An Introduction to Cognitive Mapping, T. Pletcher, Vancouver Community College, Langara, B.C.
Furstenberg's Proof of Szemerédi's Theorem (or, Ergodic Theory Strikes Again), Douglas A. Lind, University of Washington, Seattle, Washington
Mathematics in the Open University, B. Coates, British Open University and J. Koumi, British Broadcasting Company
Cooperative Education in Mathematics, D. Dale Olesky, University of Victoria
Geometrical Theorems in Slides—An Innovative Approach for Teaching Geometry, Ved P. Madan, Red Deer College, Red Deer, Alberta
Compartmentalization of Mathematical Cognition, Hazel Jo Reed, The Evergreen State College, Olympia, Washington

A Probabilistic Approach to Studying Groups, Kenneth A. Ross, University of Oregon, Eugene, Oregon

The AMS program included two invited addresses.
One-Dimensional Transformations, Oscar E. Lanford III, University of California, San Diego, California
Some Geometrical Aspects of General Relativity, Theodore T. Frankel, University of California, San Diego, California

In addition there were Special Sessions on Mathematical Physics, Probability, Analysis, Representations and Ring Theory, and Algebra and Set Theory.

JOHN HERZOG, *Secretary-Treasurer*

APRIL MEETING OF ROCKY MOUNTAIN SECTION

The 62nd Annual Meeting of the Rocky Mountain Section was held April 27-28 at the University of Denver, Chairman John Hodges, University of Colorado presiding. There were 117 in attendance including Professor Peter Hilton, First Vice President of MAA and Professor Duane Porter, University of Wyoming, Section Governor.

Professor Hilton presented the banquet address on "Teaching Applied Mathematics." The theme of the 62nd meeting was Applied Mathematics. There was a panel discussion on this theme moderated by Professor Ottis Rechar of Denver University. Participants were: Professor Peter Hilton; Professor John Maybee, University of Colorado; and Herbert Greenberg, University of Denver.

The following papers were contributed:

Generalized Convexity and Applications, Stanley Gudder, DU
Measuring the Pointedness of a Convex Body, James Fickett, CU
How to Impress the Administration, David Ballew, SDSM
The Cubic Equation Revisited, F. Max Stein, CSU
Math Anxiety in College Students, Nancy Angle, UCD
A Mixed Integer Programming Model of Biological Systems, Wilbur Miller, USC
Problems with Potential, Roger Opp, SDSM
Computer Graphics in the Calculus Classroom, Austin R. Brown, CSM
The Mathematics Students Study and Need in Wyoming, Melfried Olson, UW
Confessions of an Applications Addict, William Ramaly, Ft. Lewis College
On Cooking a Turkey, Robert Fisk, CSM
A Stochastic Model for Resource Allocation, S. K. Sengupta, SDSM
Early History of the Mathematics Department at the University of Colorado, Burton Jones, CU
Doubly Stochastic Matrices in Accounting, Dean Lucas, Martin Marietta
Personalized Instruction Systems, Matthew Hassett, AFA & ASU

The Business Meeting was convened on Saturday, April 28 by Professor Hodges with forty-one in attendance. The officers for 1979-80 are: Chairperson, Professor Laurel Rogers, University of Colorado at Colorado Springs; Chairperson-elect, Professor William Ramaly, Ft. Lewis College; Vice Chairperson, Allan Skillman, Casper College; Program Chairperson, David Rearick, University of Colorado; Past Chairperson, Professor John Hodges, University of Colorado; Secretary-Treasurer, David Ballew, South Dakota School of Mines and Technology.

The minutes and treasurer's report were approved. The proposed changes in the Bylaws to increase registration fees and free more funds for the Annual Meeting passed. Professor Duane Porter presented the Governor's report, discussed the High School Mathematics Contest and the MAA Headquarters building. Professor Robert Vunovich presented the report on the High School Mathematics Contest. The Section voiced its appreciation to Professor Vunovich for his work on the contest. Professor Peter Hilton represented the MAA at the meeting and discussed future joint meetings of MAA and AMS. Professor Rebekka Struik of the University of Colorado presented the report on the High School Lectureship Program.

DAVID BALLEW, *Secretary-Treasurer*

SPRING MEETING OF THE NORTH CENTRAL SECTION

The spring meeting of the North Central Section was held at the College of St. Teresa in Winona, Minnesota, on April 27-28, 1979. Professor Joe Konhauser presided at the business meeting. Reports were given on the 1979 Summer Seminar on Statistics at the University of Minnesota, Duluth and on the MAA High School Contest results in Minnesota and North Dakota. Recognition was given to the high scorers on the Putnam Examination from the North Central Section.

The membership elected Steve Hilding, Gustavus Adolphus College President-Elect, Roger Avelsgaard, Bemidji State University, Member at Large on Executive Committee, and re-elected Charles Heuer, Concordia College, Moorhead as Secretary-Treasurer.

An invited address entitled *The Ideal Situation for Continuous Functions*, was given on Friday evening by Professor Don Mattson of Moorhead State University. On Saturday an invited address was given by Professor R. P. Boas of Northwestern University. His talk was entitled *The Harmonic Series*.

The following contributed papers were given:

A Minimum Competency Requirement in Mathematics for College Students, Francis Hatfield, Mankato State University
Matrix Examples for an Abstract Algebra Course, John Schue, Macalester College
A Converse Problem in Differential Equations, Warren Shreve, North Dakota State University
Elementary Integrals, Hubert Walczak, College of St. Thomas
Dissipation in Lotka-Volterra Systems, Tom Haigh, St. Johns University
Some Geometrical Aspects of the Fundamental Theorem of Calculus, Helen Skala, College of St. Teresa
The Greatest Integer Function and the Golden Ratio, Gerald Bergum (presented by Kenneth Yocom), South Dakota State University
A Generalization of Cramer's Rule, Sylvan Burgstahler, University of Minnesota, Duluth

CHARLES V. HEUER, *Secretary-Treasurer*

APRIL MEETING OF THE ALLEGHENY MOUNTAIN SECTION

The annual spring meeting of the Allegheny Mountain Section of the MAA was held at Westminster College, New Wilmington, Pennsylvania, on April 27-28, 1979. There were approximately 75 members of the Association and 35 students present from the member schools. The host was Barbara Faires, Mathematics Department of Westminster College.

Friday evening, April 27, 1979, was highlighted by two invited presentations and a contributed papers session for both students and faculty. The invited speakers were Anthony LoBello, Allegheny College, and Fred Roberts, Rutgers University. The title of Professor LoBello's presentation was *Observations on the History of Mathematics on the Occasion of the Einstein Centennial*. The invited talk by Professor Roberts was *Interval Graphs, Traffic Phasing, Ship Building, and Mobile Radio Frequency*.

There were three invited talks Saturday morning. Caulton Irwin, West Virginia University, presented a paper entitled *Mathematical Aspects of Energy Modeling*. T. R. Nealigh, Westminster College, presented a paper, designed primarily for students, entitled *The Trials and Tribulations of the*