## MAY MEETING OF THE ROCKY MOUNTAIN SECTION

The fifty-sixth Annual Meeting of the Rocky Mountain Section of the MAA was held on the campus of the University of Northern Colorado, May 5 and 6, 1973. There were 143 registrants including Dean C. Benson of South Dakota School of Mines and Technology, the Sectional Governor, and Professor F. N. Fisch of the University of Northern Colorado, the Section Chairman. The invited address, *Consequences of Continuity*, was delivered by Professor R. P. Boas of Northwestern University, President of the Association. R. R. Bond, President, University of Northern Colorado, welcomed the Section at the banquet Friday evening. The banquet address, *Developing Mathematics in India and Latin America*, was delivered by Professor Emeritus B. W. Jones of the University of Colorado.

The following officers were elected at the business meeting: Chairman, F. N. Fisch, University of Northern Colorado; Vice-Chairman, J. C. Davis, Mesa College; Meeting Chairman, R. R. Gutzman, Colorado School of Mines.

The following panels and papers were read at the invitation of the program committee:

1. Innovations in Teaching College Mathematics: Terry Cleveland, Cragmor Center, University of Colorado, *Precalculus Mathematics as Self-Paced Study*. Hal Moore, Brigham Young University, *Precalculus Mini-Courses — Self Pacing with Constraints*. John Skelton, University of Denver, *Interaction among Art, Computer Science and Mathematics*. D. J. Sterling, Colorado College, *Mathematics under a Modular Scheme*. Don Tucker, University of Utah, *Experiments with Pacing in Precalculus and Calculus Mathematics*.

2. Innovative Practices in the Mathematics Preparation of Prospective Elementary Teachers: Ruth Hoffman, University of Denver, *Multi-Media for the Mathematics Training of Elementary Teachers*. Charles McNerney, University of Northern Colorado, *The Preparation of Prospective Elementary Teachers — A Multi-Facet Approach*. Harry Rosenberg, Fort Lewis College, *Use of a Concept Development Approach in the Training of Elementary Teachers*.

3. *MAA-CUPM Recommendations on Statistics at Undergraduate Level*, by Robert Heiny, University of Northern Colorado.

4. *Think Metric — The Process of Change*, by Robert Johnson, University of Northern Colorado.

5. *The Mathematics Component of the University of Colorado Upstep Program*, by Marc Swadener, University of Colorado.

Sixteen papers were contributed and read on the program:

1. *Cylic Ideals in Orders*, by David Ballew, South Dakota School of Mines and Technology.

2. *A Classification Procedure Based on Principal Components*, by Dennis Brady, South Dakota School of Mines and Technology.

3. *Decompositions of Finitely Generated Cotorsion Modules*, by Stephen Bronn, Southern Colorado State College.

4. *The Fish Story, a Population Model*, by Ross Fraker, Utah State University.

5. *The First Known Mathematician in America*, by Howard Frisinger, Colorado State University.

6. *An Axiomatic Trigonometry*, by Joe Frommer, Boulder, Colorado.

7. *Splitting Rings of Generalized Triangular Type*, by John Fuelberth and James Kuzmanovich, University of Northern Colorado.

8. *General Proximities and Pairs of Spaces*, by George Castl, University of Wyoming.

9. *Patterns in Problem Solving*, by Richard Gibbs, Fort Lewis College.

10. *Stochastic Models for Surpluses and Deficits and Approximations*, by Robert Heiny, University of Northern Colorado.

11. *Remarks on Reconstruction and n-Reconstruction Graphs*, by Bennet Manvel, Colorado State University.

12. *Permutation Groups and Determinants*, by Peter Murray, Westminster College.

13. *The Evolution of a Function*, by Duane Porter, University of Wyoming.

14. *Gauss, Least Squares and Generalized Inverses*, by Donald Robinson, Brigham Young University.

15. *A Strategy for the Game of SIM*, by Leslie Shader, University of Wyoming.

16. *A Note on Fermat's Last Theorem*, by Richard Swaller, South Dakota School of Mines and Technology.

In addition to the above papers and addresses, a textbook exhibit was presented with the generous assistance of numerous publishers.

D. J. STERLING, *Secretary-Treasurer*

## MAY MEETING OF THE SEAWAY SECTION

The Spring Meeting of the Seaway Section of the MAA was held at Rosary Hill College, Buffalo, N. Y., on May 12, 1973, in recognition of the twenty-fifth anniversary of Rosary Hill College. Chairman Erik Hemmingsen presided at the meeting which had a registered attendance of 105 people.

The annual Harry M. Gehman Invited Lecture was given by K. O. May, University of Toronto, whose topic was *Communication Problems in Mathematics*.

At the business meeting the following officers were elected: Chairman, William Stone, Union College; First Vice-Chairman, D. O. McKay, University of Western Ontario; Second Vice-Chairman, C. A. Lathan, Monroe Community College. The new Governor of the Seaway Section, Malcolm Pownall, Colgate University, was introduced.

Paul Lemke, student at Rensselaer Polytechnic Institute, was recognized as receiving the highest score in the Seaway Section in the 1972 William Lowell Putnam Mathematical Competition.

H. B. Foisy, State University College at Postdam, gave the Annual Report on the MAA High School Mathematics Contest.

Papers presented at the morning session were:

*The Computer Oriented Calculus Course at Clarkson*, by Gustave Rabson, Clarkson College.

*Convergence Criteria for Rational Series*, by Jennifer Kevins, student at St. Bonaventure University.

*A Net Characterization of the E-transformation*, by J. H. Tsai, State University College at Geneseo.

*Models of Ordinals*, by D. S. Martin, State University College at Brockport.

Papers presented at the afternoon session were:

*A Note on Graphs Whose Neighborhoods are n-cycles*, by B. L. Chilton, State University College at Fredonia.

*The Permanent Function of a Symmetric Matrix*, by E. T. Hoefer, Rosary Hill College.

*Transformation Semi-groups Acting on Totally Ordered Spaces*, by Dennis Anson, Alfred University.

*An Application of Logic*, by R. G. Van Meter, State University College at Oneonta.

EMMET STOPHER, *Secretary-Treasurer*