



May Meeting of the Rocky Mountain Section

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5. *Nonlinear boundary value problems and the equation of first variation*, by Lynn Erbe, University of Nebraska.
6. *Some aspects of the theory of extensors*, by P. S. Morey, Jr., University of Omaha.
7. *The dependence of solutions of second order differential equations on their boundary conditions*, by G. A. Klassen, University of Nebraska.
8. *Unsolved problems in intuitive geometry*, by Victor Klee (invited lecture).

HENRY M. COX, *Secretary*

MAY MEETING OF THE ILLINOIS SECTION

The forty-seventh annual meeting of the Illinois Section of the MAA was held on the Edwardsville campus of Southern Illinois University on May 10–11, 1968. Dr. R. D. Boswell, Section Chairman, presided. There were eighty-five persons in attendance.

Professor Daniel Zelinsky of Northwestern University spoke on the topic, "Algebra is the study of functions too" and this address was followed by the presentation of five papers:

1. *Homomorphism topologies on abelian groups*, by B. F. Hobbs, Olivet Nazarene College.
2. *Abelian surfaces*, by Nancy Fincke, Western Illinois University.
3. *Approximation of Banach-valued multidimensional complex functions*, by W. J. Neath, Northern Illinois University.
4. *On a special linear transformation*, by Carl Townsend, Southern Illinois University (Carbondale).
5. *Why not divide by zero?* by William Bennewitz, Southern Illinois University (Edwardsville).

The dinner address was presented by Dr. H. K. Farahat, Senior Lecturer, University of Sheffield, England, and currently Visiting Associate Professor of Mathematics at the University of Illinois. His topic was "Mathematical education in England." Professor A. A. Albert, Dean of the Division of Physical Sciences, University of Chicago, spoke on Saturday morning on "Finite Projective Planes." The meeting concluded with a panel on "Computers in the Undergraduate Curriculum" in which the participants were Professors Alphonso DiPietro, Eastern Illinois University, Donald Herrick, Northern Illinois University, Jurg Nievergelt, University of Illinois, and William Rippenberger, Knox College.

At the annual business meeting following sessions on Friday afternoon the following officers of the Section were elected for 1968–1969: Chairman, Professor Arnold Wendt, Western Illinois University; Vice-Chairman, Professor Hiram Paley, University of Illinois; and Secretary-Treasurer, Professor Howard Saar, Shawnee Community College.

HOWARD SAAR, *Secretary-Treasurer*

MAY MEETING OF THE ROCKY MOUNTAIN SECTION

The fifty-first annual meeting of the Rocky Mountain Section of the MAA was held at the University of Denver, Colorado, on May 10 and 11, 1968. There were 110 registrants, including Professor F. M. Stein of Colorado State University, the Sectional Governor, and Professor Kenneth Noble of the University of Denver, the Section Chairman. The invited address was delivered by Dr. W. S. Dorn, Watson Research Center, IBM Corporation, who spoke on 'Computer Extended Instruction'. Chancellor M. B. Mitchell of the University of Denver welcomed the Section at the banquet on Friday evening.

At the business meeting, the nominating committee was instructed to consider the advisability of amending the By-Laws of the Section to provide for the election of a second vice chairman to look after the interests of the junior colleges. The committee is to make its recommendation at next year's meeting of the Section. The Section also voted to

sponsor a program of high school lecturers, and a committee consisting of Professor Robert McKelvey, University of Colorado, Chairman; Professor William Scott, University of Utah and Professor Verne Varineau, University of Wyoming, was set up to implement the proposal.

The following officers were elected: Chairman, Jerrold Bebernes, University of Colorado, Boulder, Colorado; Vice Chairman, Ray Hanna, University of Wyoming, Laramie, Wyoming; Secretary-Treasurer, C. R. Wylie, Jr., University of Utah, Salt Lake City, Utah.

The following papers were read at the meeting:

1. *Numerical invariants in noncommutative orders*, by D. W. Ballew, South Dakota School of Mines and Technology.
2. *The Duplication of the sphere*, by Robert Bitts, Arapahoe Junior College.
3. *Edge diffraction for parabolic differential equations*, by Jack Cohen and David Hector, University of Denver.
4. *Student grades as a multiple Markov chain*, by Major R. L. Eisenman, USAF Academy.
5. *Continuous dependence for two-point boundary-value problems*, by R. E. Gaines, Colorado State University.
6. *Eigenvalue studies for second order differential equations using invariant bedding*, by Frank Hagin, University of Denver.
7. *Closed factors of Chebyshev polynomials $S_n(x)$* , by C. A. Halijak, University of Denver.
8. *An L_n approximate solution of the Riccati equation*, by M. S. Henry and F. M. Stein, Colorado State University.
9. *A maximal ideal radical class*, by T. L. Jenkins, University of Wyoming.
10. *When is a curve a curve?*, by A. J. Kempner, University of Colorado.
11. *The spin—an algebraic and probabilistic toy*, by Jean-Paul Marchand, University of Geneva, Visiting Professor in Mathematics and Physics, University of Denver.
12. *A senior seminar topic*, by D. C. B. Marsh, Colorado School of Mines.
13. *Generalized quadratic forms in a finite field*, by A. D. Porter, University of Wyoming.
14. *Nonlinear difference methods for ordinary differential equations*, by D. P. Squier, Colorado State University.
15. *Some random hydrodynamics*, by J. W. Thomas, University of Wyoming.
16. *A class of positive definite functions on noncommutative groups*, by R. C. Weger, South Dakota School of Mines and Technology.
17. *A model for projective spaces with three points on every line*, by A. Zirakzadeh, University of Colorado.

In addition to these papers, the program included a panel discussion on 'Computer Extended Mathematics' in which the participants were W. S. Dorn, Watson Research Center, IBM Corporation, E. R. Kreuger, University of Colorado, Ruth Hoffman, University of Denver, John Skelton, University of Denver, Larry Blevins, Northeastern Junior College.

C. R. WYLIE, JR., *Secretary-Treasurer*