May Meeting of the Rocky Mountain Section
Source: *The American Mathematical Monthly*, Vol. 76, No. 8 (Oct., 1969), pp. 986-987
Published by: Mathematical Association of America
Stable URL: http://www.jstor.org/stable/2318003
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At the business meeting in the afternoon, the Secretary-Treasurer reported that Mr. Stephen Helmreich of Valparaiso University and Mr. Eric Isaacson of Indiana University had each been awarded a one-year membership in the Association in recognition of their achievement in the 29th Putnam Mathematical Competition. Officers for 1969–70 were elected as follows: Chairman, Professor N. B. Haaser, University of Notre Dame; Vice-Chairman, Professor W. C. Swift, Wabash College; Secretary-Treasurer, Professor M. J. Mansfield, Purdue University at Fort Wayne.

Following the business meeting Professor G. S. Young, President of the MAA, addressed the group on "Topology and Analysis."

M. J. MANSFIELD, *Secretary-Treasurer*

MAY MEETING OF THE ROCKY MOUNTAIN SECTION

The fifty-second annual meeting of the Rocky Mountain Section of the MAA was held at the University of Colorado, Boulder, Colorado, on May 9 and 10, 1969. There were 153 persons registered for the meeting, including Professor F. M. Stein of Colorado State University, Sectional Governor, and Professor J. W. Bebernes of the University of Colorado, Section Chairman. The invited address was delivered by Professor V. L. Klee, Jr., of the University of Washington, who spoke on "Shapes of the Future—Unsolved Geometric Problems for Science and Technology." Professor W. E. Briggs, Dean of the College of Arts and Science of the University of Colorado, welcomed the Section at the banquet on Friday evening.

At the business meeting, the Report of the Nominating Committee recommending that the By-Laws of the Section be amended to provide for the election of a Second Vice-Chairman to look after the interests of the junior colleges, was approved. Professor T. D. Cavanagh, Contest Chairman of the Section, reported that 8610 students from 141 high schools participated in the 1968 MAA mathematics contest. Professor Robert McKelvey reported for the High School Lecturer Program inaugurated last year, and his recommendation that the program be continued was approved. The present committee, consisting of Professor Robert McKelvey, University of Colorado, Chairman, Professor W. R. Scott, University of Utah, and Professor Verne Varineau, University of Wyoming, was reappointed to continue the administration of this program.

The following officers were elected: Chairman, Ray Hanna, University of Wyoming, Laramie, Wyoming; First Vice-Chairman, George Stratopoulos, Weber State College, Ogden, Utah; Second Vice-Chairman, James Davis, Mesa Junior College, Grand Junction, Colorado; Secretary-Treasurer, D. J. Sterling, Colorado College, Colorado Springs.

The following papers were read at the meeting:

1. *Construction of projective ideals*, by D. W. Ballew, South Dakota School of Mines and Technology.
2. *A relationship of perfect fields to compact classes*, by A. J. Boes, Colorado School of Mines.
3. *Surfaces in three-dimensional euclidean space*, by C. E. Burgess, University of Utah.
4. *A property of perfect groups*, by Harold Finkelstein, University of Colorado.
5. *Uniform structures from abstract spaces*, by G. C. Gastle, University of Wyoming.
6. *Similarity of normal matrices in $GF(q)$*, by Mrs. Leslie Hanson and A. D. Porter, University of Wyoming.
7. *On uniform distribution of sequences in $GF(q, x)$ and $GF(q, x)$*, by J. H. Hodges, University of Colorado.
8. *Minimum and maximum topological spaces*, by R. E. Larson, University of Colorado.
9. *Perturbation of the poles of the scattering matrix*, by James LaVita, University of Denver.
10. *On computing the dimensions of spaces of automorphic functions*, by G. L. Loudner, South Dakota School of Mines and Technology.
11. *Quasi-local rings with Noetherian filtrations*, by Sylvia Chin-Pi Lu, University of Colorado (Denver Center).

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12. *The recent discovery of infinitesimal analysis*, by Gary Meisters, University of Colorado.

13. *The continuum hypothesis and the axiom of choice—remarks on the practical relevance of recent independence results*, by Donald Monk, University of Colorado.

14. *Some matric equations over $GF(q)$*, by A. D. Porter, University of Wyoming.

15. *Quasi symmetric functions*, by T. J. Reed, University of Colorado.

16. *Lagrange's version of Lagrange's theorem on groups, 1771*, by R. L. Roth, University of Colorado.

17. *The number of solutions of polynomial equations*, by L. E. Shader, University of Wyoming.

18. *CSU closed circuit television mathematics courses*, by F. M. Stein and R. H. Niemann, Colorado State University.

19. *Applicability of mathematics*, by Stanislaw Ulam, University of Colorado.

C. R. WYLIE, *Secretary-Treasurer*

MAY MEETING OF THE WISCONSIN SECTION

The annual meeting of the Wisconsin Section of the MAA was held at Wisconsin State University-Oshkosh, on May 2 and 3, 1969. Chairman J. A. Raab, Wisconsin State University-Oshkosh, presided. Approximately 110 persons attended.

After registration on Friday afternoon, May 2, the following papers were presented:

1. *Matrix norms composed from norms of submatrices of a partitioned matrix*, by N. E. Nirschl, St. Norbert College, West DePere.

2. *Pseudo quasi metric space*, by Y. W. Kim, Wisconsin State University, Eau Claire.

3. *Generalized characteristic exponents of linear homogeneous systems of differential equations*, by H. S. Gunderson, Wisconsin State University, Oshkosh.

4. *How important is the normal distribution*? by D. Lund, Wisconsin State University, Eau Claire.

A banquet was held Friday evening. After the banquet, several films were shown including "Challenge in the Classroom: The Methods of R. L. Moore."

The Saturday morning session was devoted to a short business meeting and the presentation of three more papers. During the business meeting, Dr. Marshall Wick, Wisconsin State University, Eau Claire, was elected Chairman; Mr. Warren White, University of Wisconsin Extension Center-Sheboygan, was elected Vice-Chairman; and Dr. R. W. Christensen, Wisconsin State University-La Crosse, was elected Secretary-Treasurer. The remainder of the morning session was devoted to the presentation of the following papers:

1. *Nearly antiflexible division algebras*, by L. W. Davis, Wisconsin State University, White water.

2. *Not solving differential equations*, by F. Brauer, University of Wisconsin, Madison.

3. *Commutative subrings of the ring of $n \times n$ matrices over a finite field*, by C. B. Henneken, Marquette University, Milwaukee.

After a luncheon break, a panel consisting of F. Brauer, University of Wisconsin, Madison, J. Lakin, Wisconsin State University-Oshkosh, L. Wahlstrom, Wisconsin State University, Eau Claire, and E. Wilde, Beloit College, presented a discussion of "Geometry and the Undergraduate Program." The Saturday afternoon session concluded with a presentation of the following papers:

1. *CL products of CL spaces*, by C. C. Braunschweiger, Marquette University, Milwaukee.

2. *Complex number algebra as a simple case of Heavyside operational calculus*, by D. Moore, University of Wisconsin, Green Bay.

R. W. CHRISTENSEN, *Secretary-Treasurer*

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