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April-May Meeting of the Rocky Mountain Section

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11. *Honor roll students, 1974 and 1975 Annual High School Mathematics Examination*, by H. M. Cox, University of Nebraska-Lincoln.

12. *Report on Nebraska-South Dakota Mathematics Contest for High School Students*, by L. J. Stephens, University of Nebraska at Omaha.

13. *Invited address: Relationship between the applications of mathematics and teaching of mathematics*, by H. O. Pollak, Bell Laboratories, Murray Hill, New Jersey.

H. M. COX, *Secretary-Treasurer*

#### APRIL-MAY MEETING OF THE ROCKY MOUNTAIN SECTION

The Fifty-ninth Annual Meeting of the Rocky Mountain Section of the MAA was held on the campus of Ft. Lewis College, Durango, Colorado, April 30 and May 1, 1976. There were eighty-six registrants, including Forest Fisch, Governor of the Section, and A. D. Porter, Chairman of the Section. Dean Larry Johnson, Director of School of Arts and Sciences, welcomed the Section to Ft. Lewis College. The banquet address "Whither Mathematics", was delivered by Professor R. D. Anderson of Louisiana State University. The keynote address, "Yes, 'Virginia', There is such a Thing as a Liberal Arts Course in Mathematics", was given by Professor John Hodges, University of Colorado, and two invited addresses were given: "When Is a Sequence Random", by Dr. Gus Simmons, Sandia Corp., and "Algorithmically Defined Functions", by Professor R. D. Anderson, Louisiana State University.

There were thirty-one contributed papers read at the meeting:

1. *An actuarial option in the traditional mathematics program*, by D. C. Benson, South Dakota School of Mines and Technology.
2. *What mathematics skills do prospective elementary teachers command?*, by Milfried Olson, The University of Wyoming.
3. *Minicourses in mathematics education — a year later*, by A. D. Porter, The University of Wyoming.
4. *A variation on a problem of Davenport and Diophantus*, by B. W. Jones, University of Colorado.
5. *On the Oxtoby-Ulam theorem*, by C. G. Mendez, Metropolitan State College.
6. *Reversible multiples*, by David Ballew and C. A. Grimm, South Dakota School of Mines and Technology.
7. *On internal gravity wave generation by a stationary oscillating source*, by Ed Adams, University of Southern Colorado.
8. *Ill posed linear-operator equations*, by O. N. Strand, National Oceanic and Atmospheric Administration.
9. *Families of fourth order Sturm-Liouville systems*, by F. M. Stein, Colorado State University.
10. *A note on the matrix equation  $\Phi = P\Sigma P^T$ , where  $P$  is a projection*, by J. O. Kork, Colorado School of Mines.
11. *On imitating the Euclidean metric*, by Ira Rosenholtz, The University of Wyoming.
12. *Several conjectures on commutativity in algebraic structures*, by K. S. Joseph, Metropolitan State College.
13. *Solving the Gauss equation via exterior algebra*, by Jack Vilms, Colorado State University.
14. *The integral closure of a ring from a topological point of view*, by C. H. Brase, Littleton, Colorado.
15. *Categorical properties of algebraic structures*, by D. D. Cox and R. E. Prather, University of Denver.
16. *Computer use in teaching mathematics at Utah State University*, by J. D. Watson, Utah State University.
17. *Irreducible self-adjoint unbounded representations of \*-algebras*, by W. M. Scruggs, University of Denver.
18. *An inverse diffraction technique*, by R. D. Mager, University of Denver.
19. *Estimation of parameters in acceleration models by use of ranks*, by Raymond Williams, Fort Lewis College.
20. *Five problems for freshmen and sophomores*, by F. M. Stein, Colorado State University.
21. *Some uses of the programmable calculator in the teaching of probability and statistics*, by J. H. Foster, Weber State College.
22. *Training for prospective and inservice teachers on the role of the hand-held calculator in the mathematics curriculum*, by Steven Kerr, Weber State College.
23. *Undergraduate mathematics education — a user's view*, by William Orth, USAF Academy.
24. *The Jacobian of a certain transformation*, by Hung C. Li, University of Southern Colorado.
25. *Evaluation of the zeta function by Pascal's triangle*, by C. A. Grimm, South Dakota School of Mines and Technology.
26. *A generalized Euclidean algorithm and n-ary continued fractions*, by J. A. Raab, Metropolitan State College.
27. *Converging factors for sequences of linear fractional transformations*, by John Gill, University of Southern Colorado.
28. *The Fibonacci pseudo-group and tri-diagonal matrices*, by H. R. P. Ferguson, Brigham Young University.
29. *Mathematics on the air: making a video tape*, by Corrinne Brass, Littleton, Colorado.
30. *Conversion to metric — a Canadian approach*, by Len Orman, University of Southern Colorado.
31. *Combinations via functional equations*, by Don Snow, Brigham Young University.

The business meeting was convened Saturday morning, May 1, at 8:00 A. M. by Professor Porter who presided. Thirty-eight members attended.

New officers for 1976-77 are: Chairman, Donald Bushnell, Ft. Lewis College; Chairman-Elect, Vern Nelson, Metropolitan State College; Second Vice Chairman, Robert Bitts, Arapahoe Community College; Co-Program Chairmen, Nancy Warren and Freida Hölley, Metropolitan State College.

The officers of the new Intermountain Section are: Chairman, E. A. Davis, University of Utah; First Vice Chairman, Stephen Parker, Idaho State University; Second Vice Chairman, Leslie Glaser, University of Utah; and Secretary-Treasurer, Donald Snow, Brigham Young University. The splitting of the Rocky Mountain Section into the Intermountain Section and the Rocky Mountain Section is now official.

DAVID BALLEW, *Secretary-Treasurer*

#### APRIL MEETING OF THE TEXAS SECTION

The annual spring meeting of the Texas Section was held at Texas A & M University in College Station on April 2-3, 1976. There were 231 registered persons in attendance. This meeting was one of the Centennial Academic Assemblies of Texas A & M University.

Presenting invited addresses were: Professor H. L. Alder, President-Elect of the MAA, who spoke on "Recent Developments in the Theory of Partition Identities"; Professor P. R. Halmos who spoke on "Bounded Matrices"; and Professor Paul Erdős, Centennial Professor of Mathematics at Texas A & M, who spoke on "Combinatorial Problems in Elementary Geometry." Professor Charles Chui of Texas A & M arranged a special session on Approximation theory. Professor Larry Guseman of Texas A & M arranged a special session on Mathematical Pattern Recognition. Professor Howard Rolf, Baylor, organized a panel of representatives of business, industry, and government to discuss the needs of undergraduate programs. Professor Norman Fletcher of Mountain View College organized a special pedagogical session relating to Mathematics in the first two years.

Officers for 1976-77 are: Chairman: G. R. Blakley, Texas A & M University; First Vice Chairman: H. L. Rolf, Baylor University; Second Vice Chairman: R. G. Dean, Stephen F. Austin State University; Past Chairman: J. E. Hodge, Angelo State University; Level I Director: B. D. Langston, Tarrant County Jr. College, Northeast Campus; Level II Director: Archie Brock, East Texas State University; Director at Large: R. H. Cranford, Texas Eastern University; Secretary-Treasurer: J. C. Bradford, Abilene Christian University; MAA High School Contest: J. R. Boone, Texas A & M University.

Contributed papers were:

*Two theorems characterizing increasing  $k$ -set contraction mappings*, by K. L. Singh, Texas A & M University.

*Banach lattices whose duals are  $l_1$* , by H. E. Lacey, University of Texas at Austin.

*Closed subsets of compact groups*, by A. Y. W. Lau, North Texas State University.

*Orthogonal complements in  $C(K)$  spaces*, by R. G. Bilyeu, North Texas State University.

*Further results on expansive mappings*, by R. K. Williams, Southern Methodist University.

*Absolute summability and stretchings of sequences*, by T. A. Keagy, Wayland Baptist College.

*On the summation of infinite series and the gamma function*, by Russell Cowan, Lamar University.

*Summability of sequences determined by certain difference properties*, by D. F. Dawson, North Texas State University.

*On the space  $BSV^m[a, b]$* , by F. N. Huggins, University of Texas at Arlington.

*Endomorphism rings of totally projective Abelian groups*, by R. K. O'Callaghan, University of Texas of the Permian Basin.

*Critical maximal ideals*, by R. W. Yeagy, Stephen F. Austin State University; H. S. Butts, Louisiana State University; N. H. Vaughn, North Texas State University.

*Automata that recognize free monoids*, by Tom Head, University of Alaska and Department of Mathematical Sciences, Rice University.

*On consecutive primitive roots*, by M. G. Monzingo, Southern Methodist University.

*Monogenic near-rings*, by Henry Heatherly, University of Southwestern Louisiana.

*The coloring of graphs*, by R. R. Korfhage, Serban Constantin, Judith Feld, and Fred Reagor, Southern Methodist University.

*Characterizations of normed algebras with multiplicative norms*, by R. S. Doran, Texas Christian University.

*A unified method of solving second order linear partial differential equations with constant coefficients*, by W. S. McCulley, Texas A & M University.

*A new computer oriented development of linear algebra*, by Robert Ducharme, University of Texas at San Antonio.

*The rug cutting paradox*, by John Lamb, Jr., East Texas State University.

*Graffiti on teacher evaluations*, by J. W. Strain, Midwestern State University.

*Proofs by coloration*, by George Berzsenyi, Lamar University.