



May Meeting of the Metropolitan New York Section

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APRIL MEETING OF THE NEBRASKA SECTION

The annual meeting of the Nebraska Section was held at the University of Nebraska at Omaha, April 14-15, 1978 with 65 persons in attendance including 50 members of the Mathematical Association of America. Section Chairman Paul A. Haeder presided. Invited lectures were given by Dr. A. B. Willcox and by Professor Alexander P. Mehaffey.

At the business meeting of the Section, Professor Stanley Luke gave a report on the 1978 High School Mathematics Contest in Nebraska and South Dakota. Members discussed the advisability of assessing sectional dues and passed a motion requesting that the MAA collect an additional one or two dollars and rebate same to the section. The report of Henry M. Cox, Secretary-Treasurer was read, in absentia, by the chairman; it showed a membership of 118 and a balance of \$119 on January 1, 1978.

Officers for 1978-1979 were elected, as follows:

Chairman, Thomas Shores, University of Nebraska-Lincoln; Past-Chairman, Paul A. Haeder, University of Nebraska at Omaha; Chairman-Elect, Mildred Gross, Doane College; Secretary-Treasurer, Henry M. Cox, University of Nebraska-Lincoln; Chairman of Contest Committee, Stanley Luke, Nebraska Wesleyan University.

Dr. A. B. Willcox, Executive Director of the Mathematical Association announced results of the election of Sectional Governor: Gary H. Meisters of the University of Nebraska-Lincoln.

Papers were presented as follows:

Odd $[M, 3]$ Group Codes for the Gaussian Channel, John Karlof, University of Nebraska at Omaha.

Gaussian Channel Codes for Regular Solids, Charles Downey, University of Nebraska at Omaha.

Karl Gauss, the Man and His Work, Alexander Mehaffey, Jr., University of South Dakota.

Can College Students Use Proportions?, Melvin C. Thornton, University of Nebraska-Lincoln.

The Computer Before it was God, Wayne W. Gutzman, University of South Dakota.

$\sin^2 x + \cos^2 x = 1$, Allan Peterson, University of Nebraska-Lincoln.

Properties of Solutions of the Two Body Problem, John P. Maloney and John C. Kasher, University of Nebraska at Omaha.

Existence of Solutions to Certain Degenerate Quasilinear Elliptic Equations, Allan V. Lair, University of South Dakota.

Discussion: M.A.A. Headquarters Building, M.A.A. Programs and Policies, Mildred Gross, Regional Governor, and Alfred B. Willcox, Executive Director of the Mathematical Association of America.

Practical Aspects of Fuzzy Sets, Richard H. Warren, University of Nebraska at Omaha.

A Diophantine Equation and Some Finite Differences, Bernard J. Portz, Creighton University.

Gauss' Use of Infinitesimals in His Investigations of Curved Surfaces, Gary Meisters, University of Nebraska-Lincoln.

The Structure of Cyclic Convolutional Codes, P. A. von Kaenel, University of Nebraska at Omaha.

On the Distribution of Nonzero Elements in Certain Sparse Matrices, Dale M. Mesner, University of Nebraska-Lincoln.

Results and Statistical Summary of the 1978 Annual High School Mathematics Contest, Stanley D. Luke, Nebraska Wesleyan University.

An Existence Result for Second Order Boundary Value Problems, Dwight V. Sukup, University of South Dakota.

A Geometrical Construction of the Full Elliptic Integral of the First Kind Using a Compass and Straightedge, Gregory A. Kriegsmann, University of Nebraska-Lincoln.

Some Bridges To and From Mathematics, Alfred B. Willcox, Executive Director, The Mathematical Association of America.

Henry M. Cox, Secretary

MAY MEETING OF THE METROPOLITAN NEW YORK SECTION

The thirty-seventh annual meeting of the Metropolitan New York Section of the MAA was held at Queensborough Community College on Sunday, May 7, 1978, with approximately 150 persons in attendance. Professor Robert J. Bumcrot of Hofstra University, Chairperson of the Section, presided at the meeting, which began with the business meeting at 9:45 a.m. Dean James Eastham, Professor Emeritus of Mathematics of Queensborough Community College delivered the Address of Welcome.

The business meeting included the following:

The first Charles Salkin Award to the highest regional scorer in the MAA High School Math Contest was presented to Mr. Fred Helenium of Stuyvesant High School (in absentia), who received a perfect score on the test. The Section Awards to the highest scorer in the Putnam Mathematics Competition were presented to the two students who received the same score: Renato E. Mirolo, Columbia University and Peter P. Soni, New York University. It was decided that the next annual meeting will be May 5, 1979, at Adelphi University.

The principal speaker, Professor John Thorpe, SUNY at Stony Brook, gave his invited address: *Space, Time and Geometry*. The main part of the afternoon session was a panel discussion in the form of a skit on: *Bayesians vs. Non-Bayesians: Gambling Situation*. The afternoon session concluded with the following student and faculty papers given in four parallel sessions:

Research on a Classical Diophantine Problem of Format, Joseph Arking, New York Academy of Sciences.

Theory of Groups, Madeline Becker, North Shore High School.

On Minimum Points of Monotone Norms, Richard Bielak, Brooklyn College.

Formulas for Any Triangle's Centroid, Circumcenter, Incenter, and Orthocenter, Haig Bohigan, John Jay College of Criminal Justice.

An Interesting Class of Functions Induced by Permutations, Michael W. Ecker, Lehman College.

A Triangle Exists If and Only If Its Circumcircle is an Ellipse, Leon Gerber, St. John's U.

The Trapezoid Rule in Three Dimensions, Sheldon P. Gordon, Suffolk Community College.

The Case Against Changing to the Metric System, Morton J. Hellman, Long Island, University.

On Super Abundant and Deficient Numbers, Harvey J. Hindin, Polymathic Associates.

Specializations of the Mean Value Theorem, Hagop Ketchedjian, Brooklyn College.

Math and Genetics, Lisa Kirsch, Valley Stream North High School.

A Review of Some "Greedy" Algorithms, Deborah F. Kornblum, Western Electric.

It Takes More than Abortion to Prevent One Birth, Rochelle Wilson Meyer, Suffolk County Community College.

An Integral Transform Proof of the Law of Large Numbers, James V. Peters, St. Bonaventure U.

Zeroing in on Determinants, Janet Pomeranz, SUNY Maritime College.

Rings, Algebras, and Other Set Theoretic Fruits, Jay Schiffman, St. John's University.

Incompleteness in Quantified K1.1, Steven Schmidt.

Cartesian Products of Topological Spaces, Samuel Weinberg.

Lily E. Christ, *Secretary*

SPRING MEETING OF THE TEXAS SECTION

The annual spring meeting of the Texas Section was held at Stephen F. Austin State University in Nacogdoches, Texas on March 31, April 1, 1978. There were 198 registered persons in attendance.

Presenting invited addresses were: Professor S. Ulam who spoke on *Mathematics in Atomic Energy During the War*; and Professor Calvin A. Lathen, editor of *Two-Year College Mathematics Journal*, who spoke on *Peer Group Instruction: Alternative to Lecture-Discussion*. There was a panel discussion on *Preparing for College Mathematics: Recommendations of MAA and NCTM* presented by W. K. McNabb of Skyline Center, R. S. Pieters of Hochaday School, Bob Langston of Tarrant County Junior College, and Margaret Hutchinson of the University of St. Thomas. A distinguished service citation for unusual contributions to mathematics and to the Texas Section was presented to Professor H. E. Bray of Rice University.

Officers for 1978-79 are: Chairman: R. G. Dean, Stephen F. Austin State University; First Vice Chairman: Dalton Tarwater, Texas Tech University; Second Vice Chairman: Bill Anderson, East Texas Texas University; Level I Director: David Sanchez, San Antonio College; Level II Director: Margaret Hutchinson, University of St. Thomas; Director at Large: Roger M. Thrall, Rice University; Secretary-Treasurer: Glen Mattingly, Sam Houston State University; and High School Contest: J. R. Boone, Texas A & M University.

Contributed papers were:

Equivalence of Certain Summability Conditions, David F. Dawson, North Texas State University

Limit Preserving Summability of Subsequences, Thomas A. Keagy, Wayland Baptist College

On the Summation of Series by Using the Gauss Multiplication Theorem, Russell Cowan, Lamar U.

Minimizing Sums of Distribution of Integrals of Distributions, E. Green, Abilene Christian U.

Functions Representable as Integrals of Functions, Frank N. Huggins, Univ. of Texas at Arlington

Fixed point Theorems in Banach Spaces with Uniformly Normal Structure, A. A. Gillespie and B. B.

Williams, University of Texas at Arlington

The 3-2 Intersection Property and Extreme Functional, Russell Bilyeu, North Texas State U.

The Minkowski-Farkas Lemma and the Namioka-Bauer Theorem, Ronald Teemley, North Texas State U.

A Unified Method for Some Geometry of the Triangle, J. M. Stark, Lamar University.

Enrichment Materials for Secondary Mathematics, William E. Beeman, University of Texas at

Arlington

The Skyline Center Talented Mathematics Student Program, William K. McNabb, Dallas Independent

School District

Statistics for High School Students, R. S. Pieters, Hockaday School, Dallas

Teaching the Reading of Mathematics, Shirley Tucker, Austin

An Evaluation of PSI in Introductory College Mathematics, J. C. Bolen and G. B. Turney, University of Texas at Arlington

Teaching Mathematics on Television, Larry F. Heath, University of Texas at Arlington

Quotients of Vector Subspace Lattices are Hardly Ever Complete, Don E. Edmondson, University of Texas at Austin

S^p Algebra, Gary Wiggins, Texas Tech University

Translates of (Unitary) Perfect Polynomials Over $GF(q)$ are (Unitary) Perfect, Jacob T. B. Beard, Jr., University of Texas at Arlington

An Integral Domain with an "Almost" Division Algorithm, Nick Vaughn, North Texas State U.

Dedekind-like Conditions in Commutative Rings, H. S. Butts and Robert W. Yeagy, Stephen F. Austin

State University

Large Collections of Group Preserving Block Disjoint Group Divisible Designs, William B. Poucher,

Abilene Christian University

Roots of Polynomials, Ali R. Amir-Moez, Texas Tech University

Circular and Hyperbolic Functions—A Transformation Approach, John Huber, Pan American University

An Analytic Approach to the Nine Point Circle, John F. Lamb, Jr., East Texas State University

A Concise Introduction and Derivation of the Normal Density Function, Lawrence P. Maher, North

Texas State University

Right Answer, Wrong Reasoning, But Why Did it Work 90% of the Time?, James Caristi, Texas Lutheran College

Relating Mathematics to the Real World: Industrial Needs for Mathematics, Fred S. Patterson, Execucom System Corporation

Regulated Functions: Bourbaki's Alternative to the Riemann Integral, S. K. Berbereau, University of Texas at Austin