

1982 SPRING MEETING OF THE ROCKY MOUNTAIN SECTION

The sixty-fifth Annual Meeting of the Rocky Mountain Section of the Mathematical Association of America was held on April 30 - May 1, 1982, on the campus of Western State College in Gunnison, Colorado, with 114 members of the section in attendance. Professor Ivan Niven, President-elect of the MAA, gave the Annual Banquet Address and an invited address "Paradoxes about Rational and Irrational Numbers."

The program included two panel discussions:

1. "Mathematics Support Courses for the Disciplines of Engineering, Natural Science, and Computer Science," moderated by John Gill of the University of Southern Colorado. Panelists included Bob Brown of the Colorado School of Mines, Ralph Niemann of Colorado State University, and David Ballew of the South Dakota School of Mines and Technology.
2. "Mathematics Service Courses for the Disciplines of Business, Education, and the Social Sciences," moderated by George Donovan of Metro State College. Panelists included Vern Nelson of Metro State College, Gale Nash of Western State College, and John Hodges of the University of Colorado.

There were thirty-one contributed papers of which thirteen were by undergraduate students:

1. "The Teaching of Computing at a Distance," by Prof. P.G. Thomas, The Open University and Denver University.
2. "A Generalized Problem of Least Squares," by Prof. Hung-Chiang Li, University of Southern Colorado.
3. "Some Space Shuttle Mathematics," by Prof. Raymond E. Williams, Ft. Lewis College.
4. "Installing a Stove Pipe," by Prof. Aubrey P. Owen, Community College of Denver North.
5. "Two Computer Programming Problems," by Prof. David Ballew, South Dakota School of Mines and Technology.
6. "A Simple Computer Method for Calculation of pi to n Deciman Digits in t Time," by Prof. Gregory Bollendonk, Ft. Lewis College.
7. "Mathematics at Work in Society," by Prof. John Jobe, Oklahoma State University.
8. "How to Obtain That Grant," by Prof. John Jobe, Oklahoma State University
9. "An Interdisciplinary Applied Mathematics Graduate Program," by Prof. William B. Jones, University of Colorado.
10. "An Undergraduate Mathematics Problem Course at Colorado State University," by Prof. Arne Magnus, Colorado State University
11. "Fixed Point Theorems" by Prof. V.M. Schgal, University of Wyoming.
12. "Sets of Integers with Integer Mean and Standard Deviation - Good Test Questions," by Prof. Edward M. Corwin, South Dakota School of Mines and Technology.
13. "On Lacunary Series," by Prof. S.A. Husam, University of Wyoming.
14. "Properties of Solutions of the Difference Equation $Y(t+1) = F(t, Y(t))$," by Prof. Gary Grefsrud, Ft. Lewis College.
15. "Some Topics Visited in the Analytic Theory of Continued Fractions," by Prof. W.J. Thron and Haakson Waadeland, University of Colorado.
16. "Shaders Circles," by Prof. Leslie E. Shader, University of Wyoming.
17. "Simple Iterative Constructions that Densely Fill Space," by Prof. Gary Brennen, University of Colorado.
18. "Beward the Bessel Function Expansion," by Prof. Albert Grimm, South Dakota School of Mines and Technology.

Papers presented by undergraduate students:

19. "A Problem in Number Theory," by Boris Lerner, University of Colorado.
20. "Algebra and Energy," by Debbie Wentzel, South Dakota School of Mines and Technology.
21. "Hardy-Wineberg Equilibrium," by Susan German, Air Academy.
22. "Number of Roulette Wheels with n Colors - a Group Theory Approach," by Mark K. Raus, Air Academy.
23. "Fibonacci Sequence," by T.J. Sakulich, Air Academy.
24. "Programming the Khachiyan Algorithm," by Brian Bunsness, South Dakota School of Mines and Technology.

1982 Proceedings - Page 2

25. "On a Problem of Collatz," by Gary P. Shea, University of Colorado.
26. "Mathematics at the Air Academy," by John Garstka, Air Academy.
27. "Simultaneous Plays of Infinite Games," by Steve Grantham, University of Colorado.
28. "Effective Rate of Return," by Jonathan Wade, Colorado School of Mines.
29. "Newton's Method for Complex Variables," by Dean Mogck, South Dakota School of Mines and Technology.
30. "Real Valued Bases," by David White, Ft. Lewis College.
31. "Why Should a Mathematician Worry about Copyright Policy?" by Colleen Quatier, South Dakota School of Mines and Technology.

Professor John Gill of the University of Southern Colorado, Chairperson of the Section, presided at the Annual Business Meeting. The new officers elected for 1982-83 are as follows:

Chairperson: Professor George Donovan, Metro State College
Chairperson-elect: Professor Carl Kerns, Mesa College
Vice Chairperson: Professor Marie Ritten, National College
Program Chairperson: Prof. Frank Demeyer, Colorado State University
Secretary/Treasurer: Prof. David Ballew, South Dakota School of Mines and Technology

The Section accepted the minutes, treasurer's report, and Prof. John Hodge's Governor's Report. There was considerable discussion on the future of the Colorado-Kansas-Wyoming Fall Conference and upon the possibility of awarding prizes for student papers. The Bylaws were amended to allow the registration fee to be set by the Executive Committee.

Respectfully submitted,



David Ballew
Sec/treas