

Δ delta-k

THE
ALBERTA
TEACHERS'
ASSOCIATION
MATHEMATICS COUNCIL

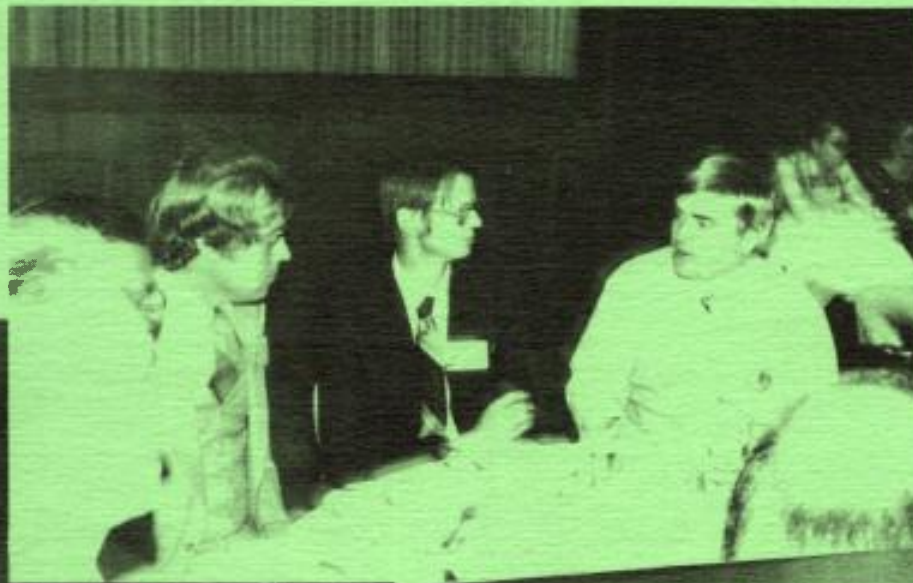


789 123456789 123456789 123456789 123456789 123456789 123456789 123456789 123456789 123456789 123456789 123456789 123456789 123456789 123456789

Volume XVIII, Number 3

March 1979

789 123456789 123456789 123456789 123456789 123456789 123456789 123456789 123456789 123456789 123456789 123456789 123456789 123456789 123456789



**Scenes from the 18th Annual Conference
October 13 and 14, 1978**

NATIONAL COUNCIL OF TEACHERS
OF MATHEMATICS

57th Annual Meeting

18-21 April 1979



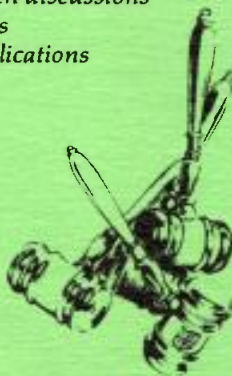
Boston, Massachusetts

Program Highlights

250 Sessions
125 Workshops and worksessions
80 Short subjects
Serendipity of ideas
Marathon make-and-take workshop
Hands-on computer workshops
Information-sharing sessions—YOU and
YOUR NCTM committees
Round-table research discussions
Commercial exhibits
Sale of NCTM publications
Reception

Featured Speakers

Richard Cortright
Martha Denckla
Jasper Harvey
Shirley Hill
Paul Szep



Topics to Be Emphasized

Mathematics for the exceptional child
Problem solving

Special Events

Presidential address
Opening and closing general session
Banquet

Sightseeing Opportunities

*Museum of Science and the Hayden
Planetarium*
Plymouth Pilgrimage
The Witch City
Newport-by-the-Sea
Gloucester Harbor
Sturbridge Village
The Museum of Fine Arts
Greater Boston
Hood Sail Makers

Hotel rooms have been reserved in several Boston hotels and motels. Housing forms will be available in the complete program booklet. All convention activities will take place at the Sheraton-Boston Hotel and the John B. Hynes Veterans Auditorium. The program will begin on Wednesday, 18 April, at 8:00 P.M. and end on Saturday, 21 April, at 1:00 P.M.



The complete program booklet for the 57th Annual Meeting will be mailed in January to all NCTM members in the United States, U.S. Territories, and Canada. Additional copies may be requested from the NCTM Headquarters Office, 1906 Association Dr., Reston, VA 22091.

Permission to use any part of this publication in the classroom is hereby granted, including reproduction. This does not include articles that have been published with permission of author and noted as "not for reproduction."

Contents

<i>Ed Carriger</i>	3	The Editor's Page
<i>Joanne Newman and Ved P. Madan</i>	4	Basic Concepts in Geometry
<i>Bonnie H. Litwiler and David R. Duncan</i>	6	Baseball Statistics: Examples of the Mean, Median, and Mode
<i>J. G. Timourian</i>	11	Career Opportunities in Mathematics and Statistics
<i>Linda Quon</i>	18	Math 20 Assignment: A Student's Answer
<i>Bill Speer</i>	22	Research Council for Diagnostic and Prescriptive Mathematics
<i>Elaine V. Alton, Joseph E. Kuczowski, and Judith L. Gersting</i>	23	Magic Squares - An Activity for Middle and Upper Grades
<i>T. E. Kieren</i>	26	Constructive Experiences with Decimals
<i>T. E. Kieren</i>	30	Constructive Rational Number Tasks
<i>Stephen I. Brown</i>	33	The Product of Signed Numbers: Dissection of an Unmotivated Proof



delta-k is a publication of the Mathematics Council, ATA. Editor: Ed Carriger, R.R.#1, Site 2, Box 3, Bluffton TOC OMO. Publisher: The Alberta Teachers' Association, 11010 - 142 Street, Edmonton T5N 2R1. Editorial and Production Services: Communications Department, ATA. Opinions of writers are not necessarily those of either the Mathematics Council or The Alberta Teachers' Association. Please address correspondence regarding this publication to the editor.

Mathematics Council Executive 1978-79

123456789 123456789 123456789 123456789 123456789 123456789 123456789 123456789 123456789 123456789

President

Robert Holt Res 462-1847
4255 - 74 Street Bus 434-0464
Edmonton T6K 0W1

Past President

Dr. K. Allen Neufeld Res 436-0571
Dept. of Elem. Educ. Bus 432-4188
University of Alberta
Edmonton T6G 2G5

Vice President

Richard J. Kopan Res 271-5240
23 Lake Crimson Close SE Bus 286-5156
Calgary T2J 3K8

Secretary

Dr. Arthur Jorgensen Res 723-5370
Box 2069 Bus 723-3815
Edson TOE 0P0

Treasurer

Donald H. Hinde Res 782-6849
Box 741 Bus 782-3812
Lacombe TOC 1S0

delta-k Editor and Publicity Chairman

Ed Carriger Res 843-6138
R.R. #1, Site 2, Box 3 Bus 843-6528
Bluffton TOC 0M0

Faculty of Education Rep. and Monograph Editor

John Percevault Res 328-1259
Faculty of Education Bus 329-2111
University of Lethbridge ext. 257
Lethbridge T1K 3M4

Department of Education Representative

Bruce Stonell Res 346-7814
Regional Office Bus 343-5262
of Education
4th Floor, 4814 Ross St.
Red Deer T4N 1X4

Mathematics Representative

Dr. Geoffrey J. Butter Res 435-1433
Department of Mathematics Bus 432-3988
University of Alberta
Edmonton T6G 2G1

ATA Representative

C.E. Connors Bus 453-2411
Barnett House ext. 283
11010 - 142 Street
Edmonton T5N 2R1

Directors

Audrey Brattberg Res 428-6394
Dickinsfield Jr. High Sch. Bus 476-4646
14320 - 88A Street
Edmonton T5E 6B6

Lyle Pagnucco Res 271-0259
Forest Lawn High School Bus 272-6665
1304 - 44 Street SE
Calgary T2A 1M8

Dr. Joan E. Kirkpatrick Res 434-0756
#1001, 9809 - 110 Street Bus 432-4153
Edmonton T5K 2J9

Bill R. Gooliaff Res 938-7222
R.R. #2 Bus 246-0771
Okotoks T0L 1T0

Gary R. Hill Res 327-5601
1626 Lakeside Road Bus 328-5153
Lethbridge T1K 3G8

Matt Pawluk Res 469-6813
Director and NCTM Rep. Bus 429-5621
Edmonton Pub. School Bd. ext. 264
10010 - 107A Avenue
Edmonton T5H 0Z8