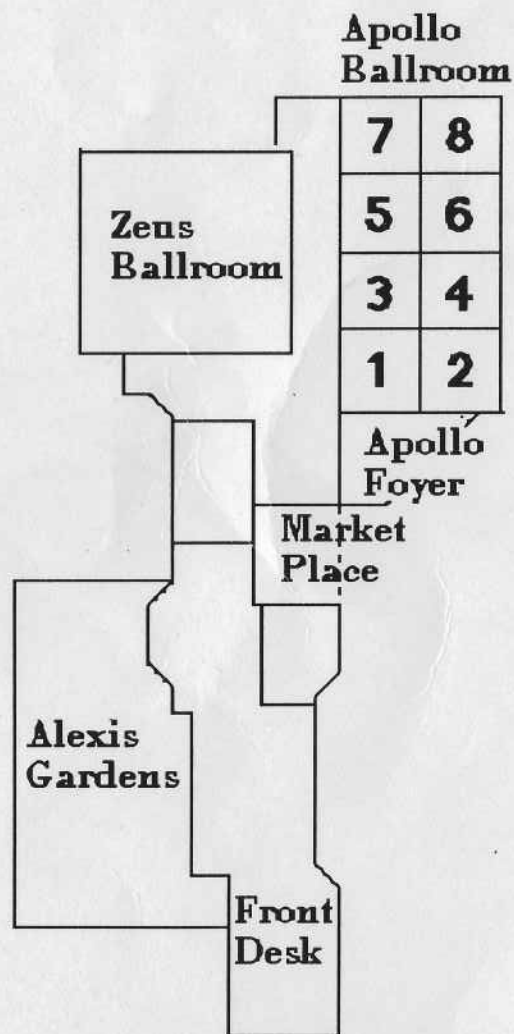


Conference rooms are located as noted below:



Mathematics:
Assessment, Learning and
Technology



RCDPM
22nd Annual Conference

February 17 - 19, 1995

Alexis Park Resort
Las Vegas, Nevada

Please refer to the hotel diagram for the locations of the sessions scheduled in individual rooms.

Research

Council for

Diagnostic and

Prescriptive

Mathematics

22nd Annual Conference

Mathematics:
Assessment, Learning and Technology

February 17 - 19, 1995
Alexis Park Resort
Las Vegas, Nevada

RCDPM Mission Statement

RCDPM seeks to stimulate, generate, coordinate, and disseminate research efforts designed to understand and/or overcome factors that inhibit maximal mathematics learning.

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Saturday, February 18, 1995

8:00am - 8:50am Presentations

Room

23. **Enriching Portfolios: The Effects of Journal Writing** Apollo 4

Presents quantitative and qualitative results showing the effects of journal writing in elementary mathematics methods class. Examples of portfolios, journal writings, and assessment techniques will be shared.

Sheryl A. Maxwell
University of Memphis
Memphis, TN

24. **Using Writing Prompts in Conjunction With Graphics Calculator Exercises to Enhance Students' Conceptualizations of Algebra** Apollo 5

Reports a method of providing students with an opportunity to construct and restructure their concepts of algebra.

David K. Pugalee
J. F. Webb High School
Oxford, NC

25. **Diagnosing for Success: A Case Study in the College Developmental Classroom (How, When, and Why)** Apollo 7

Explores the use of error analysis and subsequent group and individual instruction at the college level.

Barbara Sunderland Rives
Lamar University at Orange
Orange, TX

26. **The Governor's Minority College Awareness Program (MCAP): One Way to Increase the Mathematics Pipeline** Apollo 8

Explores techniques for improving African-American students' interest in mathematics, problem-solving skills, and awareness of the contributions of Africans and African-Americans to mathematics.

Marilyn Strutchens
University of Kentucky
Lexington, KY

Saturday, February 18, 1995

9:00am - 10:15am	Apollo 3 - 8
27.	John Wilson Memorial Lecture Presider: Martin Johnson, President, RCDPM Speaker: John Bransford Vanderbilt University Nashville, TN Changing Technologies - Impact on Mathematics Learning

10:15am - 10:30am **BREAK** Apollo Foyer

10:30am - 11:20am Presentations Room

28.	The Evolution of a School-Wide Mathematics Assessment Plan: New Roles, New Rules, New Ideologies Reports on partnership efforts to develop authentic assessment strategies for use by all teachers in a K - 4 school. Sandra L. Atkins Lynn Cowen John Federer Michael-Lynn Jackson Marlene Lucci Ray Skitzki Cleveland State University Cleveland, OH	Apollo 1
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29.	The Development of Students' Conceptions of Graphical Models of Linear and Non-Linear Functions Reports students' conceptions concerning "rate of change" models of linear and non-linear functions. Patterns of conceptual development across middle grades, high school, and college will be explored. Wendy N. Coulumbe Sarah Berenson North Carolina State University Raleigh, NC	Apollo 2
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Saturday, February 18, 1995

10:30am - 11:20am Presentations Room

30.	Assessment of Real Life Activities for Middle Level Children Discusses alternative forms of assessment to determine extent and value of learning and conceptual understanding developed using real-life activities and graphing calculators. Dixie Metheny David Davison Ken Miller Montana State University-Billings Billings, MT	Apollo 3
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31.	How Well Do People Evaluate Critical Thinking? Provides opportunity to evaluate critical thinking and compare responses to those of preservice and inservice teachers. Melfried Olson Judith Olson Western Illinois University Macomb, IL	Apollo 4
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32.	The Effect of Computer-Assisted Instruction on Gender Differences of African-American Postsecondary Students' Achievement and Attitudes Towards Mathematics Reports on the achievement and attitude effects of computer-assisted instruction for college freshmen in remedial mathematics classes. Emiel W. Owens University of Houston-Clear Lake Houston, TX Hersholt C. Waxman University of Houston-University Park Houston, TX	Apollo 5
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33.	Meet the Speaker Forum: Research Implications Provides opportunity to discuss with the guest speaker possible research questions and methodologies regarding changing technologies and their impact on mathematics learning. John Bransford Vanderbilt University Nashville, TN	Apollo 6
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Saturday, February 18, 1995

10:30am - 11:20am Presentations Room

34. Using Analytic and Reflective Logs to Facilitate Metacognition in Preservice Teachers Apollo 7

Presents use of logs by preservice teachers to facilitate metacognition during and after problem-solving.

Bonita C. White
Drake University
Des Moines, IA

11:45am - 1:30pm Market Place

LUNCH/ANNUAL MEETING

Presider: Martin Johnson
President, RCDPM

1:45pm - 2:35pm Presentations Room

35. Electronically-Generated Representations of Functions: The Role of Technology in the Formation of Conceptions and Misconceptions Apollo 1

Explores features of technologically-generated representations of functions within the framework of students' conceptions and misconceptions of functions.

Ellen Hines
Northern Illinois University
DeKalb, IL
Darlene Whitkanack
Indiana University
Bloomington, IN

36. Problem Solving Instruction for LD Mainstreamed Students Apollo 2

Reports on the use of pictorial models to build conceptual understanding of problem-solving strategies with middle-school students.

Rikki Johnson
Clark County School District
Las Vegas, NV

Calculators and Middle-school Students' Learning of Decimal Concepts

Discusses use of the Math Explorer calculator to develop 6th graders understanding of decimals.

Shirley Alexander
Clark County School District
Las Vegas, NV

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RCDPM
1995 Conference Program

Plan your conference here:

<u>Time</u>	<u>Session #</u>	<u>Room</u>
<u>Friday</u>		
1:00pm - 1:50pm	Session # <u>2-Portfolio</u>	_____
2:00pm - 2:50pm	Session # <u>7</u>	_____
2:50pm - 3:15pm	Break	
3:15pm - 4:05pm	Session # _____	_____
4:30pm - 6:00pm	Keynote Speaker	Apollo 5 - 8
7:00pm - 9:00pm	Dinner	Zeus A
<u>Saturday</u>		
8:00am - 8:50am	Session # _____	_____
9:00am - 10:15am	John Wilson Memorial Lecture	Apollo 3 - 8
10:15am - 10:30am	Break	
10:30am - 11:20am	Session # _____	_____
11:45am - 1:30pm	Lunch/Annual Meeting	Market Place
1:45pm - 2:35pm	Session # _____	_____
2:45pm - 3:35pm	Session # _____	_____
3:35pm - 4:00pm	Break	
4:00pm - 5:30pm	Panel # _____	_____
	Dinner on your own	
<u>Sunday</u>		
7:00am - 8:30am	Breakfast Buffet	Alexis Gardens
8:30am - 9:50am	Panel # _____	_____
10:00am - 10:50am	Session # _____	_____
11:00am - 11:30am	Closing	Zeus A