

## **Rob Madell Resumé**

### **Education**

- 1963            SUNY, Binghamton University, Harpur College  
Bachelor of Arts, Mathematics
- 1964            University of Wisconsin, Madison  
Master of Arts, Mathematics
- 1968            University of Wisconsin, Madison  
PhD, Mathematics  
Thesis: Topological lattice ordered groups

### **Employment History**

- 1968-1971      Assistant Professor of Mathematics  
University of Tennessee, Knoxville
- 1970-1973      Visiting Assistant Professor of Mathematics Education  
New York University
- 1970-1981      Mathematics Specialist, K - 8  
Village Community School
- 1979-1981      Mathematics Consultant  
Ethical Culture School (Manhattan)
- 1981-1982      Computer Programmer  
Children's Television Workshop, Interactive Division
- 1982-1984      Producer  
Children's Television Workshop, Interactive Division
- 1984-2001      Vice President, Interactive Technology  
Children's Television Workshop
- 2017-            Math Coach  
Compass Charter School

### **Publications – Articles - Mathematics**

- "Embeddings of Topological Lattice-Ordered Groups," Trans. Amer. Math Soc., 146 (1969) 447-455.
- "Chains which are Coset Spaces of  $tl$ -groups," Proc. Amer. Soc., 25 (1970), 755-759.

"Complete Distributivity and Alpha-convergence," Czech. Math. Journal, 30 (105) 1980 296-301.

### **Publications – Articles – Mathematics Education**

"On the Definition of Conservation," Report of TTT Project in Science and Mathematics Education, New York University, 1971.

"A Discovery Oriented Problem-Solving Approach to Arithmetic for Prospective Elementary School Teachers," Promising Practices in Mathematics Teacher Education, ERIC, Columbus, Ohio, 1972.

"Mathematics in the Elementary School in the People's Republic of China" (with J. Becker), Arithmetic Teacher 27 (1979) 38-44.

"Primary Schools" (joint author), Chinese Mathematical Education, Jerry P. Becker, ed., The Math Learning Center, Salem, Oregon, 1980.

"Children's `Natural' Arithmetic Processes," Fourth International Congress on Mathematical Education Abstracts of Short Communication, Berkeley, California 10-16 August 1980.

"Report on Primary School Mathematic Education in the People's Republic" (with J. Becker), Arithmetic Teacher 32 (1984) 34-37.

"Children Can Understand Mathematics," Arithmetic Teacher, Vol. 29, No. 5, Jan. 1982, pp 18-21.

"Children's Natural Processes," Arithmetic Teacher, 32 (85) 20-22.

"The Fundamental Problem of Arithmetic," Arithmetic Teacher, 35 (1987), 2.

### **Publications – Books**

Picturing Numeration (with E. Stahl), Creative Publications, 1977

Picturing Addition (with E. Stahl), Creative Publications, 1977

Picturing Subtraction (with E. Stahl), Creative Publications, 1977

Picturing Multiplication and Division, Creative Publications, 1977

Show Me One-Half (with S. Grossman), Village Community School, 1980

Draw & Solve Word Problems, Grade K (with L. Dombrowski), Didax, 2018

Draw & Solve Word Problems, Grade 1 (with L. Dombrowski), Didax, 2018

Draw & Solve Word Problems, Grade 2 (with L. Dombrowski), Didax, 2018

Draw & Solve Word Problems, Grade 3 (with L. Dombrowski), Didax, 2018

### **Selected Workshops and Lectures**

Topological Lattice Ordered Groups, American Mathematical Society Annual Meeting, New Orleans, 1969.

The New Math, Mathematics Research Center, University of Montreal, 1972.

Teaching Arithmetic as Reasoning, NCTM Annual Meeting, Atlanta, 1976.

A Description of the Difficulties Selected Eight-Year Old Children Have in Learning the Distributive Algorithm of Division (with L. Weiland), NCTM Annual Meeting, Atlanta, 1976.

Fractions - a New Approach, NCTM Annual Meeting, Cincinnati, 1977.  
The Village Community School Primary Arithmetic Program, NCTM Annual Meeting, Atlanta, 1976.

Current Trends in Elementary Mathematics Education in the United States, Peking Normal University, 1977.

The Elementary School Mathematics Curriculum in the United States, Shanghai Middle School #2, 1977.

Preparing Young Children to Study the Algorithms, George Mason University Education Conference, 1978.

Making Arithmetic More Mathematical, Third Annual Conference of the VCTM and 11th Potomac Regional Mathematics Conference, 1978.

A Description of the Difficulties Encountered by Selected Six-year Old Children in the Process of Learning Numeration with Base Ten Blocks (with L. Weiland), NCTM Annual Meeting, San Diego, 1978.

Report of the NCTM China Study Visit, NCTM Annual Meeting, San Diego, 1978.

Mathematics Education in the People's Republic of China, NCTM, Cherry Hill, 1979.

Arithmetic at the Village Community School, NCTM Annual Meeting, Seattle, 1980.

Working with Fractions, Association of Teachers in Independent Schools, Columbia University, 1980.

Elementary Mathematics in the United States, Yu Tsai Middle School, Shanghai, 1980.

Elementary Education in China, NCTM Annual Meeting, St. Louis, 1981.  
Computing with Fractions – Children's 'Natural' Processes, NCTM Annual Meeting, St. Louis, 1981.

A Developmental Approach to Whole Number Arithmetic, AERA Annual Meeting, New York, 1982.