



### Workshop/Presentation Topics

- Making the Transition to the Common Core State Standards for Mathematics
- Big Ideas and Essential Understandings in Mathematics
- Bar Diagrams and Problem Solving
- Problem Solving: Lessons Learned from 30+ Years of Teaching, Research, and Curriculum Development
- Algebra across the Grades  
Program Author

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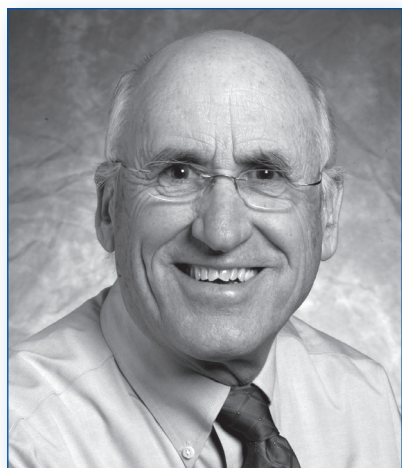
## Program Author

# Dr. Randall I. Charles

Professor Emeritus, Department of Mathematics  
San Jose State University, San Jose, California

Dr. Randall Charles is Professor Emeritus in the Department of Mathematics at San Jose State University, San Jose, California. He has dedicated his life to mathematics education and works closely to train teachers at all grade levels. His research interests have focused on problem solving with several NCTM publications including *Teaching and Assessing Problem Solving*, *How to Evaluate Progress in Problem Solving*, and *Teaching Mathematics Through Problem Solving*. In recent years Dr. Charles has written and talked extensively on Big Ideas and Essential Understandings related to curriculum, teaching, and assessment. Dr. Charles has teaching experience at all levels. He has served as a K–12 mathematics supervisor, Vice President of the National Council of Supervisors of Mathematics, and a member of the NCTM Research Advisory Committee. Dr. Charles was also a member of the writing team for the NCTM Curriculum Focal Points (2006).

He has authored or coauthored more than 100 mathematics textbooks for the elementary, middle school, secondary, and collegiate levels. Dr. Charles served as the lead author for *Scott Foresman-Addison Wesley Mathematics*, *Scott Foresman-Addison Wesley enVisionMATH*, *Prentice Hall Mathematics*, and *enVisionMATH Common Core*. He is currently an author of *enVisionMATH Common Core, Realize Edition*.



### Workshop/Presentation Topics

- Common Core State Standards
- Standards for Mathematical Practices of the CCSS
- State of Mathematics Education: Where It Was, Where It Is, Where It's Going
- Fractions
- Problem-Based Learning
- Number Sense
- Algebra and Elementary School Mathematics
- Creating and Supporting Elementary Mathematics Specialists
- Communication in Mathematics Teaching and Learning
- Issues in Assessment

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## Program Author

# Dr. Francis “Skip” Fennell

Professor of Education, McDaniel College, Westminster, Maryland  
Past President—National Council of Teachers of Mathematics (NCTM)

Francis (Skip) Fennell, PhD, is the L. Stanley Bowlsbey professor of education and Graduate and Professional Studies at McDaniel College in Maryland, where he directs the Brookhill Foundation supported Elementary Mathematics Specialists and Teacher Leaders Project (ems&t). A mathematics educator who has experience as a classroom teacher, principal, and supervisor of instruction, he is a past president of the Association of Mathematics Teacher Educators (AMTE) and the National Council of Teachers of Mathematics (NCTM).

Widely published in professional journals and textbooks related to elementary and middle-grade mathematics education, Dr. Fennell has also authored chapters in yearbooks and resource books. In addition, he has played key leadership roles for the Research Council on Mathematics Learning, Mathematical Sciences Education Board, National Science Foundation, Maryland Mathematics Commission, and the U.S. National Commission on Mathematics Instruction. Dr. Fennell served as a writer for the Principles and Standards for School Mathematics (NCTM, 2000), the Curriculum Focal Points (NCTM, 2006) and for the Common Core State Standards (CCSSO, 2010). He also served on the National Mathematics Advisory Panel, chairing the Conceptual Knowledge and Skills Task Group.

He has received numerous honors and awards, including Maryland's Outstanding Mathematics Educator, McDaniel College's Professor of the Year, the Glenn Gilbert National Leadership Award from the National Council of Supervisors of Mathematics, the Council for Advancement and Support of Education's Carnegie Foundation Professor of the Year, the Association of Mathematics Teacher Educators' Distinguished Outstanding Teacher Educator, and the Lifetime Achievement Award from the National Council of Teachers of Mathematics.

He was an author of *Scott Foresman-Addison Wesley Mathematics* and was also a member of the *Silver Burdett Ginn Mathematics*, *Scott Foresman-Addison Wesley enVisionMATH*, and *enVisionMATH Common Core* author teams. He is an author for *digits* and *enVisionMATH Common Core, Realize Edition*.



### Workshop/Presentation Topics

- Why Focus on Mathematics?
- Building Algebraic Reasoning in Grades K-8
- Building Fraction Understanding Grades K-8
- The Common Core Mathematical Practices Across the Curriculum
- Developing Depth and Connections in K-8 Mathematics

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## Program Author

# Dr. Jane F. Schielack

Associate Dean for Assessment and PreK–12 Education,  
College of Science

Professor, Department of Mathematics  
Texas A&M University, College Station, Texas

Jane Schielack is an Associate Dean for Assessment and PreK–12 Education and a Professor in the Department of Mathematics at Texas A&M University. A former elementary teacher, Dr. Schielack has pursued her interests in working with teachers and students to enhance mathematics learning in the elementary grades. She has focused her activities for improving elementary mathematics education in two main areas: teacher education and professional development and curriculum development.

As a teacher educator, she has taught mathematics for elementary teachers for over 30 years and co-authored a textbook for the courses. Her professional development work has included the design of multiple sets of workshops, both face-to-face and web-based, addressing the mathematical knowledge of elementary and middle school teachers. Dr. Schielack participated on the writing committee of the NCTM Professional Standards for Teaching Mathematics.

With regards to curriculum development, she began her involvement at the Texas Education Agency where she participated in the development of the Texas Essential Knowledge and Skills for K-8 Mathematics. At the national level, she was the chair of the writing committee for the NCTM Curriculum Focal Points (2006) and editor of the NCTM Teaching with Curriculum Focal Points series for Grades 3-8. She was a member of the NCTM Review Team of the Common Core Standards and was an input group contributor. Through consultation, she continues to contribute to curriculum development and implementation at both the state and national levels. She was an author of *Scott Foresman-Addison Wesley Mathematics*, *Scott Foresman-Addison Wesley enVisionMATH*, and *enVisionMATH Common Core*. She is currently an author of *digits* and *enVisionMATH Common Core, Realize Edition*.



### Workshop/Presentation Topics

- Common Core Practice Standards for the Primary Grades
- Defining Conceptual Development
- Problem Solving Across the Grades
- Mathematics and the Young Child
- Language and Mathematics
- Math Word Problems
- Problem Solving for Primary Students

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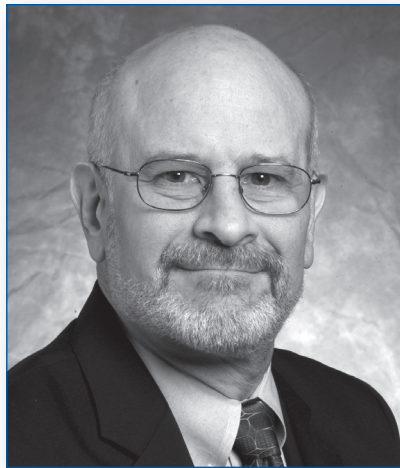
## Program Author

# Dr. Juanita “Nita” Copley

Professor Emerita

College of Education, University of Houston, Houston, Texas

Juanita Copley is a Professor Emerita from the University of Houston. She currently serves as an early childhood math consultant and advisor for more than 30 school districts, 3 National Science Foundation Grants, and many state organizations. Most recently, she worked for National Head Start in charge of their national mathematics initiative. As the former program coordinator of Early Childhood in the College of Education, she directed the Early Childhood Mathematics Collaborative, a professional development project that involves beginning and practicing teachers. Her research involves the effectiveness of professional development models for early childhood teachers in mathematics. In addition, she researches young children’s understanding of mathematical concepts. Dr. Copley has written and edited four books about early childhood mathematics copublished by the National Association for the Education of the Young Child (NAEYC) and the National Council Teachers of Mathematics (NCTM). She has also authored several national mathematics programs. Using the train-the-trainer model, Dr. Copley has trained hundreds of early childhood leaders and indirectly or directly influenced the mathematics teaching/learning of early childhood teachers. Most recently, she has authored and presented for the NCTM Summer 2013 and Winter 2014 Institutes on the Common Core, PreK–2nd grade. She also has written two books about prekindergarten math, *Nita’s Notebook* and *Nita’s PreK Playbook*, published by Pearson Custom. She was an author for *Scott Foresman-Addison Wesley enVisionMATH* and *enVisionMATH Common Core*. She is currently an author of *enVisionMATH Common Core, Realize Edition*.



### Workshop/Presentation Topics

- Using Technology to Help Children Understand Mathematics
- From  $2 \times 3$  to  $(2x + 3)^2$ : Finding Meaning in Mathematics *Grades K–9*
- Number Sense: Helping Children Develop Place Value and Numeration Concepts *Grades K–3*
- FANS (Families Achieving New Standards): New Jersey's Approach to Parent Involvement
- Using Technology to Reach All Students

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## Program Author

# Dr. Warren D. Crown

Professor Emeritus of Mathematics Education,  
Graduate School of Education  
Rutgers University, New Brunswick, New Jersey

Dr. Warren Crown is Professor Emeritus of Mathematics Education at the Graduate School of Education at Rutgers University. While at Rutgers, Dr. Crown served as the Associate Dean for Academic Affairs in the GSE and concentrated on the professional development of mathematics teachers at both the elementary and secondary levels as well as on curriculum development projects in mathematics. Dr. Crown has won numerous awards for excellence in teaching as well as the Rutgers Presidential Award for Distinguished Public Service. His curriculum development efforts have resulted in many publications, both print-based and computer software. His two best-known technology products are IBM's Math Concepts and Practice software and the award-winning Rutgers Mathematics Construction Tools program. He also has been a member of the authorship teams for many elementary textbook programs. He was an author for *Scott Foresman-Addison Wesley enVisionMATH* and *enVisionMATH Common Core*. He is currently an author of *enVisionMATH Common Core, Realize Edition*.



### Workshop/Presentation Topics

- Visual Learning in the Mathematics Classroom
- Literature in Mathematics: A Springboard for Learning
- Visual-Verbal Connections for Math Understanding
- Mathematical Communication to Promote Learning
- Developing Fluency in the Language of Math

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## Program Author

# Stuart J. Murphy

Visual Learning Specialist and Author  
Boston, Massachusetts

Stuart J. Murphy has spent his entire career working in the field of Visual Learning—how students acquire information from visual stimuli such as graphs, charts, diagrams, models, illustrations, and photos. Murphy is a champion of developing Visual Learning skills and using related strategies to help children become more successful students. He is the author of *MathStart*, a series of children's books that present mathematical concepts in the context of stories. *MathStart* has received numerous awards, including having been named one of the top ten nonfiction series for young children by *Booklist* magazine, a publication of the American Library Association. He is also the author of Stuart J. Murphy's *I SEE I LEARN* at School, a PreK, Kindergarten, and Grade 1 program published by Pearson Education. The program is based on Stuart J. Murphy's *I SEE I LEARN*, a 16-book series that presents social, emotional, health and safety, and cognitive skills in storybook settings to help young children be more successful in school, and in life. A graduate of the Rhode Island School of Design and the Harvard Business School Owner-President Management Program, Murphy has worked extensively in educational publishing and had been on the authorship teams of a number of elementary and high school mathematics programs. Stuart is a frequent presenter at meetings of the National Council of Teachers of Mathematics (NCTM). He is a consulting author for *Scott Foresman-Addison Wesley enVisionMATH*, *enVisionMATH Common Core*, and an author for *digits*, Pearson's digital Middle Grades mathematics program, and the Pearson Prentice-Hall High School mathematics program. He is currently a consulting author on *enVisionMATH Common Core*, *Realize Edition*.



### Workshop/Presentation Topics

- Alternative Assessment, Grades K–12
- Magnificent Multiplication and Dazzling Division, Grades 3–5
- Calculators in the Middle Grades, Grades 6–8
- Understanding Fractions through Games and Problem Solving, Grades 3–7
- Beyond Manipulatives: Helping Students Connect Tools to Symbols, Grades K–8
- Geometry Patterns in the Natural World, Grades K–12
- Likely or Not: Probability, Patterns, and Number Sense, Grades K–4
- Discrete Math, Grades K–12
- Amusement Park Math, Grades 5–8

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## Program Author

# Dr. Janet H. Caldwell

Professor of Mathematics Rowan University,  
Glassboro, New Jersey

In addition to teaching undergraduate and graduate mathematics courses at Rowan, Janet Caldwell has directed numerous projects involving partnerships with local districts. While at Rowan, she has been very active in professional development activities for teachers. She has served as Project Director of an Eisenhower Higher Education Professional Development Project and the South Jersey Mathematics, Computer, and Science Instructional Improvement Program.

Dr. Caldwell is also a past president of the Association of Mathematics Teachers of New Jersey, and she has served as Northeastern Director for the National Council of Supervisors of Mathematics. Her honors include the titles of Carnegie New Jersey Professor of the Year (1994–1995) and Max Sobel Outstanding Mathematics Educator (1994). She has also received the Distinguished Teaching Award for the New Jersey Section of the Mathematics Association of America for 2000.

She holds an M.A. in mathematics education and a Ph.D. in mathematics education research, both from the University of Pennsylvania.

Dr. Caldwell has published widely, contributing to books on mathematics education and to such publications as *The Journal for Research in Mathematics Education* and *Teaching Children Mathematics*. In addition, she is a coauthor of the New Jersey Mathematics Curriculum Framework. Janet Caldwell was a member of the author team for *Scott Foresman-Addison Wesley Middle School MATH*, *Scott Foresman-Addison Wesley Mathematics*, *Scott Foresman-Addison Wesley enVisionMATH* and *enVisionMATH Common Core*. She is currently the author for *enVisionMATH Common Core, Realize Edition*.