

VITAE
1986-2012

Gary G. Bitter

Revised – April 1, 2012

Educational Technology
Learning Sciences Institute
Mary Lou Fulton Teachers College
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Present Position:

Professor of Educational Technology
Founder and Executive Director, Technology Based Learning & Research
Senior Technology Advisor Learning Sciences Institute

Original Arizona State University Employment Date:

August 1970

EDUCATION

Ph.D.	University of Denver Mathematics and Computer Education Dissertation Topic: Computer Applications Related to Student Achievement University of California (summer) University of Missouri (summer) University of Michigan	1969-1970 1968 1967 1965-1966
M.A.	Emporia State University Thesis: Topology-Cut points of a Plane Continua	1963-1965
B.S.	Kansas State University	1958-1962

ARIZONA STATE UNIVERSITY RESPONSIBILITIES:

Professor, Educational Technology
Executive Director, Technology Based Learning and Research
Senior Technology Advisor Learning Sciences Institute

AREAS OF ACADEMIC AND RESEARCH INTEREST:

APPs for Education
The impact of “Integration of Technology into the Curriculum” on student achievement and attitude.
Research related to successful anytime, anywhere e-Learning: On-line Education—Guidelines—Intellectual Property
National Student and Teacher Technology Standards for the United States.
Online video based Professional Development.
The Future of Technology
Emerging Technologies

ADMINISTRATIVE EXPERIENCES:

Program Leader Educational Technology	2007-2008
Coordinator, Educational Media and Computers	1986-1999
Acting Director, Arizona State University Computer Institute	1984-1985
Director, Microcomputers in Education Conference (founder)	1980-2000

ARIZONA STATE UNIVERSITY EXPERIENCE:

Professor of Education (Sabbatical Leave - Fall 1989, Fall 1996, A/Y 2003-04)	1977-Present
Associate Professor of Education	1973-1977

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(Sabbatical Leave - A/Y 1976-77)
Assistant Professor of Education

1970-1972

University Senate
University Senate Personnel Committee Chair

2007-2015
2011-2012

PROFESSIONAL EXPERIENCE OTHER THAN AT ASU:

Employer	Location	Year(s)
Fulbright Training	Tempe, AZ	2010
International Society for Technology in Education	Eugene, OR	1999-2002
Miami-Dade Public Schools	Miami, FL	1999
Fresno City Schools	Fresno, CA	1996
California State University	Northridge, CA	1994
Montclair State College	Montclair, NJ	1993
National Council of Teachers of Mathematics, <i>Microcomputer Mathematics Seminars</i>	National	1985-1987
Arizona Computer Camp	Prescott, AZ	Summer, 1982
Temple University	Philadelphia, PA	Summer, 1980
Boston University	Boston, MA	Summer, 1980
Tempe Parents for the Gifted	Tempe, AZ	Summer, 1979-1981
ASU Gifted Program	Tempe, AZ	Summer, 1980
Montana State University	Bozeman, MT	Summer, 1975
University of Northern Colorado	Greeley, CO	Summer, 1973
University of Denver <i>Supervisor of Student Teachers</i>	Denver, CO	Summer, 1970
Colorado College	Colorado Springs, CO	1967-1970
University of Colorado (P/T)	Colorado Springs, CO	1968-1970
Washburn University	Topeka, KS	1966-1967
Ann Arbor Public Schools	Ann Arbor, MI	1965-1966
U.S. Government, McConnell Air Force Base <i>Lecturer, Math</i>	Wichita, KS	1963-1965
Derby Public Schools	Derby, KS	1962-1965

OTHER WORK EXPERIENCES:

Employed As Consultant	Type of Work	Date
Adaptive Curriculum	Research	2010-2012
Digital Directions	Assessment	2010-2011
Virtual Learning	SBIR Evaluator	2009-2012
Adaptive Curriculum	Math Content Expert	2007-2011
Enslow Publishing	Math Content Expert	2006-2007
SchoolSoft	Math Content Expert	2007-2008
Learning Point	Standards/Assessment	2004-2005
The CNA Corporation	RTEC Advisory Board	2000-2004
Bell and Howell	Evaluation	1999-2000
Milken Foundation	Technology Support	1999-2000
Microsoft	Software Reviewer	1997
National Science Foundation	Reviewer	1993-1996, 2000
U.S. Department of Education	Reviewer	1993-1998, 2000
College Board	Calculator Workshop	1994
CTB McGraw Hill	Test Reviewer	1993-1995
University of Houston	Calculator Development	1992
Chicago Public Schools	Calculator Integration	1992
Educational Testing Service	PPST Advisory Board	1992-1994
Media Share	Technology Based Math	1991-1993
Texas Instruments	Involved in Design of SuperSpeak and Math	1989-1990
William Paterson College of New Jersey	Helped Develop Masters Degree in Computer Education	1989
State of Colorado	Review Advanced Computer Education Degree	1989
Texas Instruments	Helped Develop & Design Math Explorer Calculator	1988-1991
St. Peters College	Technology Research	1989-1991
Learning Exchange	Microcomputers in Math Instruction	1989
North Carolina Math and Science, Durham, NC	Calculator Assisted Higher Order Thinking	1989
Texas Instruments	Calculator Research	1987-1989
Amphitheatre Public Schools	Computer Education	1987

OTHER WORK EXPERIENCES:

Employed As Consultant	Type of Work	Date
Cobb County Schools, Atlanta, GA	Computers in Mathematics	1986
Langley Schools, Vancouver, BC	Computer Assisted Math	1986
University of California	Research-Microcomputers In Education	1985
University of California	Microcomputer Based Mathematics	1984
Vancouver District, #39, BC	Computer/Math Curriculum	1984
Albuquerque, New Mexico Public Schools	Proposal Evaluation	1983
Kentucky Superintendent's Consortium	Computer Literacy	1983
Franklin University, Ohio	Computer Infusion Curriculum	1983
New Jersey Department of Education	Computer Literacy	1983
Kankakee, Illinois Public Schools	Computer Literacy	1983
Kilgore, Texas Public Schools	Computer Literacy	1983
Killeen, Texas Public Schools	Computer Literacy	1983
Phoenix College	TV Program	1983
California Elementary Education Association	Computer Literacy Seminars	1983
Educational Testing Service	IBM Secondary Computer Project	1983
University of San Diego	Computer Literacy	1982
Harris Computer, Melbourne, FL	Melbourne Schools Computer Software	1982
Academy for School Executives, Tulsa, OK	Computer Literacy	1982
Lake County, IL	Future Technology & Computer Literacy	1982
LINC, Columbus, OH	Special Education	1981
Scholastic, New York, NY	Workshops - Logo	1981
Developmental Learning Materials	Computer Materials	1981-1984
Deer Valley Schools	Computer Project	1980-1981
Control Data Corporation, Chicago, IL	Basic Skills Computer Curriculum	1980-1981
Welton Schools	Problem Solving	1980
Phoenix Elementary District	Math Curriculum Development	1980-1981
Texas Instruments	Computer and Calculator Research	1980-1981
Broward County, FL	Problem Solving	1980
Tempe Parents for Gifted	Program Development	1979-1980
Prescott Schools	Computer Literacy Project	1979-1981
Washington Elementary District	Gifted Program	1978-1979
Weldon Valley School, Colorado	Calculator Curriculum Computer Training	1978, 1982
Migrant Math Skills Project	Chairperson	1975-1979
Havasupai Indian Program	Math Curriculum Development	1979
Wilson School District	Math Needs Assessment	1977-1978
Hopi Tribal Council	Math Curriculum Development	1972-1979
Reno Public Schools	Future of Math	1978
Idaho State Department	Calculator Inservice	1977-1978
Science Research Associates	Calculator Director	1977
Texas Instruments	Calculator Inservice Program	1977
Washington Elementary District	Computer Literacy Training	1976
U.S. Office of Education	National Computerization of Migrant Math Skills	1975-1978
Minnesota State Department	Math Improvement	1975
Hopi Home School Project	Evaluate Home School Plan	1975-1977
Migrant Education	Summer Inservice	1975-1981
State of Arizona	Calculator Research Project	1975
Tempe Parents for the Gifted	Gifted Program	1975, 1979, 1980
Greater Phoenix Curriculum Council	Develop Mathematics Objectives	1973-1975
Bureau of Indian Affairs	Mathematics Curriculum Development	1972-1976
Somerton School	Set-up Migrant Mathematics Lab	1973-1977
Albuquerque Public School	Inservice-mathematics education	1972
Scottsdale Schools	Inservice-mathematics education	1972
Creighton Public Schools	Develop Math Lab Program K-8	1971-1972
Mesa Public Schools	Mathematics - Needs Assessment K-8	1971-1972
Catholic Diocese	Goals Review	1970
Migrant Education	Mathematics Curriculum Development	1971-1981
Kaman Sciences, <i>Research Associate</i>	Computer Consultant Programmer	1967-1970

RESEARCH FUNDED PROJECTS:

PREPARING HIGH SCHOOL TEACHERS FOR SERVICE-ORIENTED COMPUTER SCIENCE EDUCATION

Funding Source: Fund for the Improvement of Higher Education \$583,427 2007-2011

SPALDING RESEARCH PROJECT

Funding Source: Spalding Educational International Foundation	\$159,967	2005-2010
READING FIRST VIDEO PROJECT		
Funding Source: Arizona Department of Education	\$207,000	2005-2006
EXTENDING AND ENHANCING NLVM (NATIONAL LIBRARY OF VIRTUAL MANIPULATIVES AS A NATIONAL TEACHING RESOURCE FOR SCHOOL MATHEMATICS (EVALUATOR))		
Funding source: NSF-Utah State University	\$50,000	2004-2006
NETS DIGITAL VIDEO LIBRARY (CO-PI)		
Funding Source: US Department of Education: Preparing Tomorrow's Teachers to Use Technology (PT3)	\$1,495,137--\$3.6 million <i>with cost share.</i>	2001-2005
REGIONAL TRAINING CENTER		
Funding Source: State of Arizona -	\$2,632,372	1998-2005
THE e-LEARNING NETWORK – LEARNING ANYTIME, ANYWHERE!		
Funding Source: Fund for the Improvement of Postsecondary Education (FIPSE)		1999-2004
US Department of Education -	<i>\$1,953,172--\$4.1 million with cost share.</i>	
LINKS (LEARNING INTEGRATING NETWORKING KNOWLEDGE SKILLS)		
Funding Source: State of Washington -	\$1,396,000	2000-2004
TECHNOLOGY IMPROVEMENT		
Funding Source: State of Arizona -	\$52,500	1998-1999
STAR SCHOOLS LEADERSHIP AND EVALUATION ACTIVITIE (CO-PI)		
Funding Source: U.S. Department of Education –	\$546,000	1998-1999
VISUALIZATION FOR SCIENCE AND ENGINEERING EDUCATION (CO-PI)		
Funding Source: NSF -	\$2,585,000	1997-2000
MULTIDISCIPLINARY RESEARCH ON THE NEXT GENERATION MULTIMEDIA TECHNOLOGIES FOR INTERACTIVE DISTRIBUTED LEARNING (Co-PI)		
Funding Source: Arizona State University -	\$150,000	1997-2000
MATH DISCOURSE PROJECT (<i>Math•ed•ology™</i>) (Pryor - Co PI)		
Funding Source: NSF -	\$2,300,000	1995-1999
CD-ROM: <i>Math•ed•ology™</i>		1998
ARIZONA COLLABORATIVE FOR EXCELLENCE IN THE PREPARATION OF TEACHERS		
(Wycoff & Keller - Co PI's)		1994
Funding Source: NSF -	\$100,000	
MATH/SCIENCE TEACHER PREPARATION CD ROM (Flores - Co PI)		
Funding Source: Eisenhower Funds - \$50,000		1993-1994
CD-ROM: The Guide		
INTEL MULTIMEDIA RESEARCH AND DEVELOPMENT (INSTRUCTIONAL MEDIA DESIGN)		
Funding Source: Intel -	\$300,000, Equipment Grant \$120,000	1993-1995
CD-ROM: <i>Instructional Media Design</i> , QUE College Education		1997
TEACHER PREPARATION AND ENHANCEMENT IN THE USE OF AVAILABLE TECHNOLOGY		
Funding Source: IBM -	\$322,430; Equipment Grant; \$14,000	1992-1995
Monograph: Report on the National Study of IBM's Teacher Preparation with Technology		
Grant Program. <i>Monograph Series of Technology Based Learning and Research</i> , 7 1994.		
Monograph: Report on the National Study of IBM's Teacher Preparation with Technology		
Grant Program. <i>Monograph Series of Technology Based Learning and Research</i> , 8 1994.		
IBM CONSORTIUM GRANT, IBM		
Funding Source: IBM -	\$103,000; Equipment Grant; \$80,000	1991-1994
ADVANCED TECHNOLOGY RESEARCH GRANT		
Funding Source: Texas Instruments -	\$30,000	1991-1992
COMMODORE EQUIPMENT GRANT		
Funding Source: Commodore Business Machines;	\$65,000	1991
CHRISTOPHER COLUMBUS CONSORTIUM		
Funding Source: Apple Computer - Equipment Grant \$32,000		1990-1994
IBM RESOURCE CENTER		
Funding Source: IBM Equipment and Software; \$85,000		1990
ARIZONA STATE UNIVERSITY HISPANIC MATHEMATICS PROJECT (HISPANIC MATH PROJECT)		
Funding Source: NSF -	\$708,360; IBM-Equipment Grant; \$150,000	1989-1993
Paper: <i>Using Technology in the Teaching and Learning of Mathematics</i>		
4th Annual, NSBA, "Making Schools More Productive" Conference		
November 7-9, 1990.		
Monograph: Arizona State University Hispanic Math Project.		
<i>Monograph Series of Technology Based Learning and Research</i> , 6, 1993.		
CD-ROM: Series of CD's on the topic of Measurement		
TEACHING MATHEMATICS METHODS USING INTERACTIVE VIDEODISC (UNDERSTANDING TEACHING)		
Funding Source: NSF;	\$403,079; IBM-Equipment Grant; \$250,000	1989-1992

- Paper: *Using Technology in the Teaching and Learning of Mathematics*
4th Annual, NSBA, "Making Schools More Productive" Conference,
November 7-9, 1990.
- Paper: *Interactive Multimedia (IBM) With Videodisc -- Geoboards and Base-Ten Blocks*
Presented at the 69th Annual Meeting of the NCTM, April 17-20, 1991.
- Paper: *Teaching Math Methods Using Interactive Videodisc*
Presented at the CUE Conference, Palm Springs, CA, May 8, 1992
- Paper: *Teaching Mathematics Methods Using Interactive Multimedia.*
Presented to the USDE, Washington, D.C., November 23-24, 1991
- Monograph: *Teaching Mathematics Methods Using Interactive Videodisc*
Monograph Series of Technology Based Learning and Research, 4, 1992
- Monograph: *Teaching Mathematics Methods Using Interactive Videodisc: the TMMUIV research results.*
Monograph Series of Technology Based Learning and Research, 5, 1992
- CD-ROM: *Understanding Teaching: Implementing the NCTM Professional Teaching Standards*
(Mac and PC Versions), Association for Supervision and Curriculum Development, 1997

ARIZONA STATE UNIVERSITY STAR SCHOOLS PROJECT (Subcontract with TERC) 1988-1990

- Funding Source: U.S. Department of Education; \$72,000
- Article: Communicating Mathematics (with M. Hatfield) *Mathematics Teacher*, 1991
- Monograph: Arizona State University and Technical Education Research Centers
Telecommunicating Mathematics: The Star Schools Project.
Monograph Series of Technology Based Learning and Research, 2, 1992

CALCULATOR ASSISTED HIGHER ORDER THINKING: DEVELOPMENT AND RESEARCH 1988-1989

- Funding Source: Texas Instruments; \$30,030
- Book: *Sourcebook for Teachers Using the Math Explorer Calculator,*
(with Jerald Mikesell), Addison-Wesley Publishing Company,
Menlo Park, CA, 346 pages, 1990.
- Monograph: Calculator Series 90-1, "Calculator Project,"
(with Mary M. Hatfield and Judy Lewis) Arizona State University/
Scottsdale Unified School District, Tempe, AZ, 1990.
- Monograph: Integration of the Math Explorer Calculator into the Mathematics Curriculum:
The Calculator Project Report, (with Mary M. Hatfield).
Monograph Series of Technology Based Learning and Research, 1, 1992.

- Paper: NCTM and Numerous Organization Meetings. 1988-1991
- Chapter: 1992 NCTM Calculator Yearbook
- Paper: Calculator Conference, *Calculator Research Findings,*
Houston, Texas, May 29, 1992.
- Paper: *Using the Math Explorer Calculator: Activities and Research.*
ICME VII, Quebec City, Canada. August 17, 1992.

MICROCOMPUTER BASED MATHEMATICS 1986-1988

- Funding Source: Apple Computer; Equipment grant \$40,000
- Book: *Appleworks in the Classroom Today.* McGraw Hill, 1989.

RETRAINING SECONDARY EDUCATION TEACHERS IN LOW DEMAND DISCIPLINES 1986-1987

AS COMPUTER LEARNING TEACHERS

- Funding: Source Arizona Department of Education for Economic Security; \$48,470.
- Paper: National Educational Computing Conference, 1987.

MICROCOMPUTER-BASED MATHEMATICS PROGRAM TO STRENGTHEN THE MATHEMATICS COMPETENCE OF PRE-SERVICE TEACHERS (MATH FITNESS PROJECT) 1985-1988

- Funding Source: NSF; \$228,235
- Paper: University of California, Riverside, 1984.
- Paper: International Commission on Mathematics Instruction, Strasburg, France, 1985.
- Paper: National Educational Computing Conference, 1986.
- Paper: World Congress of Education and Technology, 1986.
- Paper: NCTM and numerous State Math Association Meetings
- Article: "Back to Basics with Math for the Future," *Electronic Education*, January 1987.
- Article: "Computer Assisted Mathematics - A Model Approach,"
Computers In The Schools, Fall 1987.
- Article: "Educational Technology and the Future of Mathematics,"
School Science and Mathematics, October 1987.
- Article: "Microcomputer-Based Mathematics Fitness,"
Technological Horizons in Education Journal, November 1987.
- Article: "Microcomputer Assisted Testing,"
Journal of Computers in Mathematics and Science Teaching, Summer 1987.
- Study Results: *Facilitating Academic Software Development,*
Educom, 1987 Section based on research results of Math Fitness Project.

MICROCOMPUTER BASED MATHEMATICS		1985-1986
Funding Source: IBM;	\$90,000 Equipment Grant	
FEEDBACK TO THE LEARNER		1985-1986
Funding Source: Provost Grant - Research Assistant; \$6,000		
Paper: National Educational Computing Conference, 1986.		
Article: "Microcomputer Feedback to the Student/Learner" (with P. Mulligan) <i>Ideal</i> , Summer 1987. Vol. 2 pp 75-90.		
MICROCOMPUTER BASED LEARNING: REMEDIAL MATH RESEARCH		1982-1985
Funding Source: Apple Foundation;	\$161,000	
Paper: AERA New Orleans, Los Angeles, 1984.		
Paper: ICME 5 Adelaide, Australia, 1984.		
Book: <i>Apple LOGO Primer</i> . Reston, VA: Reston Publishing, 1983.		
Book: <i>Using a Microcomputer in the Classroom</i> , Reston, VA; Reston Publishing, 1984.		
Book: <i>Computer Literacy - Awareness, Applications and Programming</i> , Menlo Park, CA: Addison Wesley, 1986.		
Article: "Apple Newsletter."		
LITERACY TRAINING MODEL		1981-1982
Funding Source: NSF - PreCollege;	\$33,049	
Book: <i>Exploring with Computers</i> . New York, NY: Julian Messner, 1981		
Book: <i>Computers in Today's World</i> . New York, NY: John Wiley & Sons, 1984		
Article: "The First Step Utilizing Microcomputers in Education and Preparing Computer Literate Teachers," <i>AEDS Monitor</i> , Vol. 21, No. 5, 6 Nov/Dec, 1982		
Article: "Computer Literacy Scope and Sequence Model," <i>ElectronicLearning</i> , September, October, November/December, 1982; January, February, 1983		
Paper: Numerous presentations.		
COMPUTER NEEDS ASSESSMENT		1980
Funding Source: None		
Monograph: Arizona Microcomputer Needs Assessment, 1980		
Article: "Arizona Computer Assisted Instruction Needs Assessment", <i>The Computing Teacher</i> , 8(4): 31-34, 1981		
MATH ANXIETY		1978-1979
Funding Source: College of Education;	\$1,000	
Paper: NCTM Meetings.		
MATHEMATICS EDUCATION - FUTURE		1978-1979
Funding Source: Personal, Sabbatical		
Monograph: Mathematics Education in the Future, Cooperative for Science, Math and Social Studies, Arizona State University, Tempe, Arizona, 1987		
Paper: ICME IV Berkeley, CA 1980		
HAND-HELD CALCULATOR RESEARCH		1975-1977
Funding Source: State of Arizona;	\$1,700	
Article: <i>Migrant Educator</i> , Summer, 1976		
Article: "Calculator Teacher Attitudes Improved Through Teacher Education," <i>School Science and Mathematics</i> , 50 (4): 323-326, April, 1980		
Article: "Curriculum Considerations for Use of the Hand-Held Calculator," <i>Calculators/Computers Magazine</i> , 2 (6): 15-16, 1978		
COMPUTER ASSISTED INSTRUCTION IN THE ELEMENTARY SCHOOL		1972-1974
Funding Source: ASU Faculty Grant;	\$2,000	
Article: "A Computer Assisted Management System for the Teacher," <i>Journal of Educational Data Processing</i> , 10 (5): 16-24, 1973		
Article: "Computer Control of Mediated Instructional Presentations," <i>AEDS Monitor</i> , 12 (3): 6-8, 1973		
Paper: Numerous Mathematics Meetings		
MATHEMATICS LABORATORY - ATTITUDINAL AND COGNITIVE GROWTH		1972-1974
Funding Source: None		
Article: "Materials, Competence, and Confidence in a District Math Lab," <i>Arithmetic Teacher</i> , 20 (6): 86-89, 1974		
Paper: NCTM National Meeting		
EFFECT OF CAI ON ATTITUDE AND ACHIEVEMENT IN THE TEACHING OF MATHEMATICS		1969-1970
Funding Source: NSF; Denver, Colorado;	\$300,000 Research Associate	
Paper: AERA, New York, NY, 1971		
Article: "Calculus with Computers," <i>Two Year College Mathematics Journal</i> , 1 (2): 41-49, 1970		
Article: "Computer Oriented Calculus," <i>Journal of Educational Data Processing</i> ,		

- 7 (3): 193-195, 1970
- Book: *Computer Applications for Calculus*, Prindle, Weber, and Schmidt, Boston, 1972, 264 pp.
- Article: "Basic Differences in BASIC," *AEDS Monitor*, 10 (7): 8-9, 1972

PUBLISHED APPS, BOOKS, MONOGRAPHS, CD ROMS, ONLINE PROGRAMS, FILMSTRIPS, TAPES, etc:

Bitter, Gary G. et al. 2011-2012

- **Android APPs developed & completed:**

1. The Ultimate IQ Test
2. General Overview of the SAT Reasoning Test
3. Detailed Overview of the SAT Reasoning Math Test
4. SAT Reasoning Math Review - Numbers and Operations
5. SAT Reasoning Math Review - Algebra and Functions
6. SAT Reasoning Math Review - Geometry
7. SAT Reasoning Math Review - Data Analysis, Statistics and Probability
8. SAT Reasoning Math - Model Test 1
9. SAT Reasoning Math - Model Test 2
10. SAT Reasoning Math - Model Test 3
11. SAT Reasoning Math - Model Test 4
12. SAT Reasoning Math - Model Test 5
13. PT3 NETS Video Library

- **iOS (Apple) APPs developed & completed:**

1. The Ultimate IQ Test
2. General Overview of the SAT Reasoning Test
3. Detailed Overview of the SAT Reasoning Math Test
4. SAT Reasoning Math Review - Numbers and Operations
5. SAT Reasoning Math Review - Algebra and Functions
6. SAT Reasoning Math Review - Geometry
7. SAT Reasoning Math Review - Data Analysis, Statistics and Probability
8. PT3 NETS Video Library (5 APPS)

Bitter, Gary G. 2010

- *MathReady Grade K App# 1*
- *MathReady Grade K App# 2*
- *MathReady Grade K App# 3*
- *MathReady Grade 1 App# 1*
- *MathReady Grade 1 App# 2*
- *MathReady Grade 1 App# 3*
- *MathReady Grade 2 App# 1*
- *MathReady Grade 2 App# 2*
- *MathReady Grade 2 App# 3*
- *MathReady Grade 3 App# 1*
- *MathReady Grade 3 App# 2*
- *MathReady Grade 3 App# 3*

(<http://teacherpower.net/index.html>) , Apple Computer, Cupertino, CA, 2010

Using Technology in the Classroom, 7th Ed: (with J Legacy), Allyn & Bacon, Needham Heights, MA, 405 pages, 2008.

Using Technology in the Classroom Brief Edition, (with J Legacy), Allyn & Bacon, Needham Heights, MA, 272 pages, 2006.

Using Technology in the Classroom, 6th Ed: (with M. E. Pierson), Allyn & Bacon, Needham Heights, MA, 343 pages, 2002, 2005.

Using Technology in the Classroom DVD, Allyn & Bacon, Needham Heights, MA, 2005, 2008.

Mathematics Methods for Elementary and Middle School, (Mac and PC CD-ROM), John Wiley & Sons, New York, NY, 2000, 2005, 2007.

Mathematics Methods for Elementary and Middle School Teachers, 7th Ed.: (with M. Hatfield, N. Edwards and J. Morrow), John Wiley & Sons, New York, NY, 427 pages, 2002, 2004, 2005, 2008.

Math•ed•ology™ Professional Development On-Line Series, Arizona State University, Tempe, AZ, 2003.

Hispanic Mathematics: On-Line Mathematics Program, Arizona State University, Tempe, AZ, 2003
Understanding Teaching: On-Line Professional Development Course, Arizona State University, Tempe, AZ, 2003
National Educational Technology Standards: Connecting Curriculum and Technology: (with Lajeane Thomas and Peggy Kelly),
 International Society for Technology in Education, Eugene OR, 375 pages, 2000.
Math•ed•ology™ Series of 25 CDs and on-line Professional Development episodes,
 T.H.E.Institute, 1999.
National Educational Technology Standards for Students, (with Lajeane Thomas),
 International Society for Technology in Education, Eugene, OR, 1998.

PUBLISHED ARTICLES:

[R = Referred]

Tsai, W.T., Sun, X. Chen, Y. Huang, Q. Bitter, G.G. & White, M. (2009). An Introductory Course on Service-Oriented Computing for High Schools. *Journal of Informational Technology Education*. Volume 7. [R]

Tsai, W.T., Sun, X. Chen, Y. Huang, Q. Bitter, G.G. & White, M. (2008). Learning connections: service-oriented computing. *Learning and Leading with Technology*. 35(7). 28-30.

Tsai, W.T., Sun, X. Chen, Y. Huang, Q. Bitter, G.G. & White, M. (2008). "Teaching Service-Oriented Computing and STEM Topics via Robotic Games", *Proc. of IEEE International Symposium on Object/component/service-oriented Real-Time Distributed Computing (ISORC)*.

Pryor, C & Bitter, G.G. (2008). Using multimedia to teach inservice teachers: impacts on learning, application and retention. *Computers in Human Behavior*. 24(2008) 2668-2681.

Bitter, G. et.al. (2007). Active and significant blended learning. *The International Journal of Arts and Sciences (IJAS)*.

Bitter, G.G. (2007). My "Aha!" Moment. *Educational Leadership*, 65(3)

Bitter, G. G., & Pryor, B. W. (2001). Web-based professional development: Mathedology™, *Focus*, 22 (3/4). [R]

Bitter, G. G., & Hatfield, M. M. (1999). The role of technology in the middle grades, In L. Leutzinger (Ed.), *Mathematics in the middle*, Reston, VA: National Council of Teachers of Mathematics. [R]

Bitter, G. G., & Thomas, L. (1998). National educational technology standards: Developing new learning environments for today's classrooms, *NAESP Bulletin*, 81(592), 52-58.

Bitter, G. G., & Hatfield, M. M. (1997). A multimedia alternative for professional development, *Teaching education, emerging technology and the education classroom*, 8(2), 67-71. [R]

Pryor, B. W., & Bitter, G. G. (1995-1996). Lessons learned for integrating technology into teacher education. *Journal of computing in teacher education*, 12(3), 13-17. [R]

Kinard, B., & Bitter, G. G. (1997). Multicultural mathematics & technology: The Hispanic math project, *Computers in the Schools*, 13, (1/2), 77-88. [R]

Bitter, G. G. (1996). Teaching mathematics methods using videodisc, *Proceedings National Science Council Republic of China: Part D Mathematics, Science, Technology Education*, 6(1), 1-7

PAPERS PRESENTED:

Organization	Topic	Date
International Society for Technology in Education (ISTE) San Diego, CO (Co-speaker-- Jane Legacy)	Using Free NETS Video-Based APPs for Professional Development	06/26/2012
National Supervisors of Mathematics Philadelphia, PA (Co-speaker-- Rusen Meylani)	Identifying, Reviewing, Selecting, Creating, Developing & Applying Math Assessment Apps with Educational Value to Support Assessment of Student Learning of Mathematics	04/23/2012
National Council of Teachers of Mathematics Philadelphia, PA (Co-speaker-- Rusen Meylani)	“APPs Boom” Using Math APPs to Teach and Learn Math	04/28/2012
The Computer-Based Math Education Summit London, England	State-of-the-Art Technology for Computer Based Learning and Teaching of Mathematics	11/11/2011
International Society for Technology in Education (ISTE) Philadelphia, PA	The Future of Technology in Education	08/30/2010
Fulbright Orientation Tempe, AZ	Traditional and Emerging Technologies in Support of Foreign Language Instruction	06/29/2010
National Educational Computing Conference Denver, CO (ISTE) Panel	Strategic ED Tech Thinking	06/30/2010
National Educational Technology Conference Denver, CO (ISTE)	Technology Tools for Visual Learning in Mathematics	04/23/2010
National Council of Teachers of Mathematics San Diego, CA	Activities on Data Analysis and Probability Using Technology	01/14/2010
Florida Educational Technology Conference(FETC) Orlando, FL	Future of Educational Technology	07/01/2009
National Educational Computing Conference Washington D.C NECC Panel	Creating Online Mathematics Objects	05/23/2009
International Conference on Living Theorists Budur, Turkey	Online Technology Applications Can Be Used to Teach Middle School Mathematics	04/25/2009
National Council of Teachers of Mathematics Washington D. C.	Using Technology to Teach Mathematics and Science	01/23/2009
Florida Educational Technology Conference(FETC) Orlando, FL	Using Online Digital Activity Objects to Teach Math and Science	06/30/2008
National Educational Computing Conference (NECC) San Antonio, TX	Technology in a Math Classroom	
National Educational Computing Conference (NECC) San Antonio, TX	Strategic Ed Technology Thinking: Panel	07/01/2008
Bahceshir University Istanbul, Turkey	Emerging Technologies in Education Preparing for the Future	05/15/2008
American Educational Research Association (AERA) New York, NY	Using Multimedia to Teach Standards-Based Democratic Discourse	03/26/2008
American Educational Research Association (AERA) New York, NY	Using Multimedia to Teach Standards-Based Discourse: Considerations for Program Design	03/25/2008
Greater San Diego Math Conference San Diego, CA	Using Online Digital Activity Objects to Teach Math	02/01/2008
Florida Educational Technology Conference(FETC) Orlando, FL	Using Online Digital Activity Objects to Teach Math	01/23/2008
Software Information Industry Association (SIIA) Panel New, NY	Technologies Impact on Education	11/26/2007
EDNET 2007 (with P. Skiera) Chicago, IL	Technologies for Professional Development	09/10/2007
National Educational Computing Conference (NECC) Panel San Diego	Will Technology Change Education As We See It Today?	06/27/2007
Florida Educational Technology Conference(FETC) Orlando, FL	Gaming and Education	01/25/2007
Florida Educational Technology Conference(FETC) Orlando, FL	Online Professional Development	03/26/2006
Greater San Diego Mathematics Council San Diego, CA	Digital (DVD/Online) Math Lessons: Connecting Technology with the Teaching of Mathematics	02/03/2005
Florida Educational Technology Conference Orlando, FL	Using Digital Technologies to Enhance Teaching and Learning	01/28/2005
NSBA: Technology and Learning Conference Denver, CO	The NETS Digital Video Library	10/27/2004

PAPERS PRESENTED:

Organization	Topic	Date
Society for Applied Learning Technology® (SALT) Interactive Technologies Arlington, VA	Meeting Teacher Quality Standards with Technology: The NETS Digital Video Library	08/18/2004
National Educational Computing Conference (NECC) Milken Institute Global Conference	Video Cases as a Catalyst for Change	06/21/2004
	Breakout Session: Understanding the Next Wave of Technology in Education	04/28/2004
American Educational Research Association (AERA) San Diego, CA	Evaluating the Effectiveness of e-Learning Modules	04/15/2004
Society for Information Technology and Teacher Education (SITE) Atlanta, GA	Investigating Students' Perceptions of an Online Learning Environment	
	Implementing Video Cased in Faculty Professional Development	03/03/2004
Society for Applied Learning Technology® (SALT) New Learning Technologies Orlando, FL	Developing an Online Instructional Media Design Course/Training Module	02/19/2004
Greater San Diego Mathematics Council San Diego, CA	Math Applications: Using the National Digital Video Library to Improve the Teaching of Mathematics	02/06/2004
Society for Applied Learning Technology® (SALT) Interactive Technologies Arlington, VA	A Web-based Authoring Tool for eLearning	08/06/2003
Society for Applied Learning Technology® (SALT) Interactive Technologies Arlington, VA	Video Cases as Learning Tools	08/06/2003
Global Connections World Technology Conference Phoenix, AZ	Mathedology™: Online Professional Development Using Streaming Video	07/30/2003
National Educational Computing Conference (NECC) Seattle, WA (co-Speaker)	Achieving "Digital Equity"	07/01/2003
American Educational Research Association (AERA) Chicago, IL (co-speaker)	Evaluation of the National Educational Technology Standards Digital Video Library	04/22/2003
Society for Information Technology and Teacher Ed Albuquerque, NM (co-speaker)	Portrait of Digital Equity-The IT Fundamentals Curriculum	03/28/2003
Society for Applied Learning Technology® (SALT) Orlando, FL (co-speaker)	From Portals to Knowledge Brokers	02/20/2003
Greater San Diego Math Council San Diego, CA	Lesson Plans For Integrating Technology Into the Teaching of Mathematics	02/08/2003
Florida Educational Technology Conference Orlando, FL	Technology's Role in the Education of Today's Student	02/04/2003
Fund for the Improvement of Postsecondary Education Washington D.C.	How to Turn Lemons into Lemonade!	11/23/2002
League for Innovation in the Community College Conference on Information Technology Long Beach, CA (co-speaker)	Taking the Pain Out of Information Technology: A Model Course	11/17-20/2002
Association of Educational Communication & Tech Dallas, TX (Co-Speaker)	The NETS Digital Library: Creating A Digital Video Database To Promote Technology Integration	11/14/2002
NSBA: Technology and Learning Conference Dallas, TX	Integrating Technology into the Curriculum	11/13/2002
Virtual Learning: Academic and Corporate Conference Columbia University (co-speaker)	Guidelines for Designing and Developing Online e-Learning Courses Including Intellectual Property Considerations	07/11/2002
American Educational Research Assoc (AERA) New Orleans, LA (Co-Speaker)	Investigating Instructional Utility and Implementation Needs in an Online Environment: A Theory-guided Evaluation	04/02/2002
United Arab Emirates University Al-Ain, United Arab Emirates	Integrating Technology into the Curriculum	03/17/2002
Florida Educational Technology Conference (FETC) Orlando, FL (Co-Speaker)	The NETS Digital Video Library	03/08/2002
Florida Educational Technology Conference (FETC) Orlando, FL	Online Digital Solutions for Establishing New Teaching and Learning Environments	03/06/2002
Greater San Diego Mathematics Council San Diego, CA	National Educational Technology Standards (NETS) for Teachers: Math Integration—Essential Conditions, Resources, Assessment Strategies	02/01/2002
Greater San Diego Mathematics Council San Diego, CA	National Educational Technology Standards (NETS): A Math Perspective	02/01/2002

PAPERS PRESENTED:

Organization	Topic	Date
Fund for the Improvement of Postsecondary Education (FIPSE) San Diego, CA	Building Scenario-Driven, Real-World Online Courses	11/18/2001
World Conference on Educational Multimedia, Hypermedia & Telecommunications Tampere, Finland	KEYNOTE: Guidelines for Designing and Developing Online e-Learning Courses Including Intellectual Property Considerations	06/30/2001
American Educational Research Association (AERA) Seattle, WA	Educational Reform in the Era of Cyber Space Discussant Evaluation of a Course in the e-Learning Network: The Perspectives of Instructors	04/11/2001
Society for Information Technology and Teacher Education Orlando, FL	ISTE NETS for Teachers: Integration of Technology into Teacher Preparation	03/07/2001
Greater San Diego Math Council San Diego, CA	National Educational Technology Standards: A Math Perspective	02/02/2001
Florida Educational Technology Conference Orlando, FL	Anytime, Anywhere: Virtual e-Learning	01/12/2001
Northern California Math Council Monterey, CA	Web-Based Professional Development for Teachers	12/01/2000
Fund for the Improvement of Post Secondary Education San Diego, CA	Using Technology to Work with Underserved Populations	11/18/2000
Computer Using Educators Conference Sacramento, CA	National Educational Technology Standards for Teaching Guidelines for Designing and Developing Online Courses	11/10/2000
International Congress on Mathematical Education Tokyo, Japan	Web-based Multimedia Professional Development in Mathematics Education: Mathedology™	07/29/2000
National Educational Computing Conference (NECC) Atlanta, GA	National Educational Technology Standards	06/26/2000
Computer Using Educators Conference Palm Springs, CA	Guidelines for Designing and Developing On-line Courses The National Educational Technology Standards (NETS) Project: Implications and Resources	05/12/2000
American Educational Research Association (AERA) New Orleans, LA	Transforming Formative Evaluation Data: Comparative Content Analysis to Determine Learner Variability Professional Development and Technology— New Approaches and Outcomes Recent Research on Math-ed-ology: An Interactive Multimedia CD-ROM	04/24/2000
Florida Educational Technology Conference Orlando, FL	Guidelines for Designing and Developing Online Courses	03/01/2000
Association of Teacher Educators Orlando, FL	<i>Math•ed•ology™</i> : Interactive Multimedia for Learning National Teaching Standards	02/16/2000
11 th Annual Society for Information Technology and Teacher Education Conference San Diego, CA	National Educational Technology Standards (NETS) Project – Preservice Teacher Education Standards	02/08/2000
Greater San Diego Mathematics Annual Conference San Diego, CA	Web-based Professional Development: <i>Math•ed•ology™</i>	02/04/2000
Computer Using Educators Conference Sacramento, CA	National Educational Technology Standards (NETS) Project: Implications and Resources for the Classroom	10/28/1999
National Educational Computing Conference (NECC) Atlantic City, NJ	National Education Technology Standards (NETS): Unleashing the Power of Technology for Learning The Hidden Costs of Software Upgrades and How to Avoid Them	06/23/1999
Computer Using Educators Conference Palm Springs, CA	The 5 Components that a Pre-Service Technology Education Course Cannot Live Without	05/08/1999
National Council Of Supervisors of Math Conference San Francisco, CA	The ISTE National Educational Technology Standards	05/07/1999
American Educational Research Association (AERA) Montreal, Canada	Web-based Professional Development- <i>Math•ed•ology™</i>	04/20/1999
	Evaluation as Both Formative and Summative: A Study of Teachers’ Use of Interactive Multimedia To Learn National Teaching Standards	04/22/1999
	Multiple Perspectives from Four Stakeholder Groups On Interactive Multimedia	04/19/1999
Florida Educational Technology Conference Orlando, FL	Professional Development, Anytime, Anywhere: <i>Math•ed•ology™</i>	03/17/1999

PAPERS PRESENTED:

Organization	Topic	Date
Pacific Asia Conference on Expert Systems Los Angeles, CA (Co-Speaker)	Comparison of Development Methods of a Multimedia Knowledge Base System: Authoring Tool vs. Web-based Version	02/11/1995
Greater San Diego Mathematics Council San Diego, CA	Professional Development Emphasizing Teacher/Student Discourse Including Bilingual Examples	02/05/1995
American Evaluation Association Chicago, IL (Co-Speaker)	Investigating the Relative Utility of Electronic Data Collection for Evaluation of Interactive Multimedia	11/06/1995
Technology Leadership Conference Athens, GA	Surviving Technology (Opening General Session, Keynote)	10/28/1995
National Educational Computing Conference (NECC) San Diego, CA	National Educational Technology Standards (NETS) Project: Defining Technology Standards for preK-12 Students	06/22/1995
Computer Using Educators Conference Palm Springs, CA	A Multimedia Professional Development Seminar for Math Teachers: Grades K-8	05/09/1995
American Educational Research Association (AERA) San Diego, CA	Studies on Computer/Technological Innovations in Data Collection, Assessment, and Instructional Practices: Evaluating Electronic Data Collection	04/14/1995
Association for Supervision and Curriculum San Antonio, TX	Understanding and Implementing the NCTM Teaching Standards Through a Multimedia Professional Development Seminar	03/22/1995
Florida Educational Technology Conf. (FETC) Orlando, FL	The Hispanic Math Project: Area and Perimeter	03/06/1995
Greater San Diego Mathematics Council San Diego, CA	Emphasizing Math Discourse in Your Teaching	02/06/1995
Computer Using Educators Conference Santa Clara, CA	<i>Math•ed•ology™</i> —A Multimedia Approach to Professional Development	10/17/1995
EdNET 97 Scottsdale, AZ	Issues of Concern to the Higher Ed Market	09/24/1995
National Educational Computing Conference (NECC '97), Seattle WA	National Educational Technology Standards (NETS) Project	07/01/1995
National Council of Supervisors of Mathematics (NCSM), Minneapolis-St. Paul, MN	<i>Math•ed•ology™</i>	04/15/1995
The Multidisciplinary Initiative on Distance Learning (MIDL), Tempe, AZ	Research Issues with Electronic Multimedia Courseware	04/11/1995
American Educational Research Association (AERA) Chicago, IL	Writer's Solution: An Interactive Media Program for Building Writing Proficiency Skills for Middle School Students	03/25/1995
Association for Supervision and Curriculum Development Baltimore, MD	Using a CD-ROM Seminar for Professional Development in Mathematics	03/24/1995
Association of Mathematics Teacher Educators Washington, D.C.	Using Technology to Support Teachers' Understanding of the Teaching and Learning of Mathematics	02/16/1995
Greater San Diego Mathematics Council San Diego, CA	Professional Development for the NCTM Curriculum and Professional Teaching Standards	02/07/1995
Computer Using Educators Conference Santa Clara, CA	<i>Math•ed•ology™</i> : A Multimedia Approach to Professional Development	10/25/1995
National Council of Teachers of Mathematics Kansas City, MO	Implementing the NCTM Professional Standards for Teaching Mathematics: A Multimedia Approach	10/10/1995
International Council Mathematics Education (ICME) Seville, Spain	Understanding Teaching: Implementing the NCTM Professional Standards for Teaching Mathematics	07/20/1995
	<i>Math•ed•ology™</i> : A Multimedia Approach to Professional Development (Presented by Dr. Harold Frederick)	07/16/1995
National Educational Computing Conference Minneapolis, MN	Teaching Milestones for K-12 Education: Building Standards for all Students	06/13/1995
American Educational Research Association (AERA) New York, NY	Toward Guidelines for the Development and Research of Interactive Multimedia: Experiences of US & Canadian Projects Symposium	04/09/1995
Teachers Teaching with Technology (T3) Los Angeles, CA	Technology and the Teaching of Mathematics	02/23/1995
Quest for the Best FETC/FATIC Conference	A Multimedia Approach to Professional Development	02/17/1995
16 th Annual Texas Computer Education Association Austin, TX	A Multimedia Approach to Professional Development Using Streaming Video	02/09/1995

Research and Editorial

- *Journal of Research in Mathematics Education*, reviewer 2010-2011
- *Journal of Information Technology Education*, International Board of Reviewers 2011-present

- *American Educational Research Journal* reviewer 2011-2012
- *Journal of Teacher Education*, reviewer 2008-2010, 2011
- *Investigations in Mathematics Learning* 2007-2010
- *University of Malaysia* dissertation review 2009
- *International Association of Science and Technology for Development (IASTED) Program Reviewer* 2006
- Editorial Board *American Educational Research Journal* 2003-2005
- Editorial Board, *Computers in Human Behavior*, 1995-present.
- Editorial Board, *Journal of Research on Technology in Education*, 1999-present.
- Editorial Board, *Information Technology in Childhood Education*, 1989-1993, 2000-2004
- Hardware and Software Editor, *Computers in the Schools Journal*, 1983-2004.
- Technology Advisory Committee, *NCATE*, 1996-1997.
- Editorial Board, *Journal of Computers in Mathematics and Science Teaching* 1981-1993.
- Advisory Committee, *National Educational Technology Standards for Students Project*, 1995-2000.
- Advisory Board, Microsoft, 1997.
- Advisory Board, Eisenhower National Clearing House, 1995-1998.
- Reviewer, *World Conference Computers in Education*, 1994-1995.
- Reviewer, *Asia Pacific Information Technology in Training Conference*, 1993.
- PPST Advisory Board, *Educational Testing Service*, 1992-1995.
- Advisory Board Member, *MediaShare Technology Program*, 1991-1993.
- Test Reviewer, *CTB, College Board Review*, 1991.
- Contributing Editor, *Educational Technology*, 1989-1993.
- Editor-in-Chief, *Macmillan Encyclopedia of Computers*, 1990-1992.
- Test Reviewer, *Educational Testing Services*, 1990-1993.
- Reviewer, *AERA Educational Researcher*, 1989, 1991, 1992.
- Executive Editor, *Technology on Campus*, 1988-1990.
- Software Reviewer, Software Publishers Association, 1988-1990.
- Software Editor, *Journal of Computers in Mathematics and Science Training*, 1989-1993.
- Editor, *School Science and Mathematics*, 1981-1988.
- Contributed chapter to *SIGCUE Outlook*, Vol. 20, No. 1, Fall 1988, pp. 115-130.
- *Guidelines for the Continuing Mathematical Education of Teachers*, (Contributor)
- Mathematical Association of Teachers (Committee on the Mathematical Education of Teachers - COMET), 1988.
- Software Review: Math Utilities: Curves, Surfs, and Diffs, *The College Mathematics Journal*, Vol. 18, No. 4, September 1987.
- Contributed chapter to *Planning and Evaluating Computer Education Programs*, Merrill Publishing Company, 1987.
- Editorial Board, *Australian Computer Education Journal*, 1985-1987.
- Editorial Board, *Electronic Education*, 1984-1987.
- Instructional Computer Editor, *AEDS Monitor*, 1985-1986.
- Article Reprint "RUN": *Computer Education*, 1985.
- Arizona Governor's Task Force on Computer Education, 1984.
- Fact Sheets - Computer Literacy, National School Board Association, 1984.
- Advisory Council, *Scholastic*, Weekly Reader, 1983-1984.
- Contributed chapter to *Computer Education for Colleges of Education*, Association of Computing Machinery, January 1983.
- Contributed to *Encyclopedia of Computer Science and Engineering*, 2nd Edition, 1983.
- Contributed two chapters to *Microcomputers Applications in Vocational Education*, University of Wisconsin, Madison, WI, 1983.
- Contributed chapter in *Microcomputer for Teachers*, School Science and Mathematics Association, 1982.
- Editorial Board, *AEDS Monitor*, 1982-1984.
- Monthly column (Bittersweet), *Educational Computer Magazine*, 1981-1984.
- Contributed article in *Microcomputers in Education Proceedings*, Arizona State University, 1981-1984, 1986.
- Editorial Board, *Electronic Learning*, 1981-1983.
- Consulting Editor, *Computer and Mathematics Education Series*, Holt, Rinehart & Winston, 1981.
- Electronic Education Column (bi-monthly), *Instructor Magazine*, 1980-1984.
- Associate Editor, *School Science and Mathematics*, 1980-1981.
- "Calculator Corner" (monthly), *Teacher Magazine*, 1980-1981.
- Advisory Board Member, *Teacher Magazine*, 1977-1979.
- "Metric Corner," monthly column in *Teacher Magazine*, 1976-1980.
- Contributed chapter in *Measurement in School Mathematics* yearbook, Reston, VA, National Council of Teachers of Mathematics, 1976, 244 pp.
- Editorial Board, 1970-1979, *Two Year Mathematics Journal*, Creator and Editor of "The Computer Corner," 1973-1979.
- Consulting Mathematics Editor, General Cassette Corporation, 1970-1975.

ONLINE COURSES DEVELOPED:

EDT494/594: Conceptualizing, Creating & Marketing APPS 2012—Developed and taught.

Developed and taught 20 three-semester hour online courses based on my NETS National Video Digital Library PT3 grant. Each course includes student and teacher video from the PT3 grant.

- **EDT530 A:** English-Language Arts-Integrating Technology into Teaching Pre-K--2
- **EDT530 B:** Social Studies-Integrating Technology into Teaching Pre-K--2
- **EDT530 C:** Mathematics-Integrating Technology into Teaching Pre-K--2
- **EDT530 D:** Science-Integrating Technology into Teaching Pre-K--2
- **EDT530 E:** Multidisciplinary-Integrating Technology into Teaching Pre-K--2
- **EDT530 F:** English-Language Arts-Integrating Technology into Teaching Grades 3-5
- **EDT530 G:** Social Studies-Integrating Technology into Teaching Grades 3-5
- **EDT530 H:** Mathematics-Integrating Technology into Teaching Grades 3-5
- **EDT530 I:** Science-Integrating Technology into Teaching Grades 3-5
- **EDT530 J:** Multidisciplinary-Integrating Technology into Teaching Grades 3-5
- **EDT530 K:** English-Language Arts-Integrating Technology into Teaching Grades 6-8
- **EDT530 L:** Social Studies-Integrating Technology into Teaching Grades 6-8
- **EDT530 M:** Mathematics-Integrating Technology into Teaching Grades 6-8
- **EDT530 N:** Science-Integrating Technology into Teaching Grades 6-8
- **EDT530 O:** Multidisciplinary-Integrating Technology into Teaching Grades 6-8
- **EDT530 P:** English-Language Arts-Integrating Technology into Teaching Grades 9-12
- **EDT530 Q:** Social Studies-Integrating Technology into Teaching Grades 9-12
- **EDT530 R:** Mathematics-Integrating Technology into Teaching Grades 9-12
- **EDT530 S:** Science-Integrating Technology into Teaching Grades 9-12
- **EDT530 T:** Multidisciplinary-Integrating Technology into Teaching Grades 9-12

PROFESSIONAL STANDING AND RECOGNITION:

Memberships, Professional Organizations, Scholarly Societies

NATIONAL

American Association of University Professors

(Colorado College Acting Chair - 1969)

DATES

1967-2011

American Educational Research Association

Editorial Board American Educational Research Journal

1970-present

2003-2005

Special Interest Group-Computer Applications in Education-Chair

1990-1993

Symposium Chair and Organizer

1988-1991

Reviewer for Instructional Technology Papers

1986, 1998/1999

Chair/Critic - Computers for Mathematics Education, Technology in Education

1986, 2000

Reviewer – Computer Applications in Education

1995-1997

Professional Development and Technology Chair

4/10/2001

Educational Reform in the Era of Cyberspace – Discussant

4/11/2001

International Society for Technology in Education (ISTE)

1990 -present

Past President

1991-1992

President

1990 -1991

President Elect

1989-1990

Paul Pair Lifetime Technology Achievement Award

2000

International Society for Technology in Education Lifetime Achievement Award

1989

Vision: TEST Advisory Board

1990-1991

Co-P.I. – NASA Grant to Develop Technology Standards

1996-1997

Teaching Mathematics with Calculators Advisory Board

1989-1994

Funded by: MAA/NCTM/NSF/TI

National Educational Computing Conference (NECC)

Steering Committee

1988-1992

Conference Chair, Phoenix, AZ, June, 1991

1991

International Association of Computer Educators (IACE)

1968-1989

Annual Meeting Program Chair

1987-1988

National Board of Directors (Elected)

1974-1975,

1986-1989

Director of International Computer Programming Contest

1974-1975

National Convention Committee, Treasurer

1975-1976

Adams Hotel, Phoenix, AZ, May 7-10, 1976

International Council of Computer Educators (ICCE)

1982-1989

National Board of Directors (EL)

1988-1989

Association for Development of Instructional Systems

1968-1976

Gary Bitter

Page 14 of 17

California Mathematics Association	1990-1995
Futuristic Society	1976-1979
National Council of Teachers of Mathematics (NCTM)	1962-present
<i>Lifetime Achievement Award</i>	2006
Chapter in Professional Standards Yearbook	1994
Chapter in Teaching Math	1999
Chapter in Calculator Yearbook	1992
Math Counts Committee	1988-1990
Open Ended Problem Solving Committee	1987
Computer Mathematics Seminars	1986-1987
Program Committee, Phoenix, AZ	1986-1987
Technology Chair, NCTM National, San Antonio, TX	1985
Houston Regional NCTM Meeting - NCTM representative	1984
Regional Services Committee	1981-1985
Phoenix Regional NCTM Meeting - NCTM representative	1982
Technology in the Classroom, Monograph	1982
Developed Computer Literacy Seminar Series	1981-1982
El Paso Regional NCTM Meeting - NCTM representative	1981
Convention and Conference Committee	1980-1983
Program Director, NCTM Phoenix Meeting	1976
Phi Delta Kappa	1969-2011
Computer Seminars	1983
Research Council for Diagnostic and Prescriptive Mathematics	1977-2001
Mathematical Association of America	1967-1999
School Science and Mathematics Association	1962-2007
Editor, <i>School Science and Mathematics Journal</i>	1981-1988
Chapter in Yearbook - <i>Microcomputers for Teachers</i>	1982
U.S. Metric Association	1975-1982

ACADEMIC ACHIEVEMENTS:

Nature of Distinction	Awarded By	Date
NCTM Lifetime Achievement Award	National Council of Teachers of Mathematics	2006
2001 Faculty Achievement Award	Arizona State University	2001
Paul Pair Lifetime Technology Achievement Award	International Society For Technology in Education	2000
Outstanding Service Award	Arizona State University – College of Education	2000
Distinguished Alumnus	Kansas State University	1994
Affirmative Action Administrator of the Year	Arizona State University; Educational Media and Computers	1990
Outstanding Technology Educator of the year	International Society For Technology in Education	1989
Masters of Innovation	Zenith Data Systems	1989
Distinguished Alumnus	Emporia State University	1987
Outstanding Faculty Member (COE)	Arizona State University	1985
International Educator	UNICEF	1984
Outstanding Children's Book	National Science Teachers Association	1979, 1981, 1993
National Migrant Educator of the Month	Migrant Education News	1976
Outstanding Children's Book	National Science Teachers Association	1975
Fellowship	National Science Foundation	1970
Fellowship	National Science Foundation (Summer)	1968
Fellowship	National Science Foundation (Summer)	1967
Fellowship	National Science Foundation	1965-1966
Fellowship	National Science Foundation (Summer)	1963-1965
American Men and Women of Science		1970-1979
Community Leaders and Noteworthy Americans		1975
Dictionary of International Biography		1975
Leaders in Education		1971

EDUCATIONAL PLANS IMPLEMENTED:

- Computer Literacy Scope and Sequence Model
- Numerous Computer Related School Programs
- Idaho Migrant Pocket Calculator Project
- Migrant Mathematics Laboratory - Model
- Migrant Mathematics Diagnosis and Remediation Program
- Creighton Math Laboratory
- Mesa School District - District-wide Mathematics Program Improvement Project

Mesa School District - Teacher Center Program
 Bureau of Indian Affairs Math Program - Math Lab Model

PROFESSIONAL CONTRIBUTIONS

	DATE
Chinese University of Hong Kong Faculty Promotion and Tenure review	2011-2012
USDE Hispanic Serving Institutions Panel reviewer	2010
Global Educational Assessment team—(CISCO/Intel/Microsoft)	2008-2010
FIPSE GANN Panel Review	2010
Social Sciences & Humanities Research Council of Canada	2009
FIPSE US--Russia Panel review	2009
FIPSE College Digital Data Panel Review	2009
FIPSE Panel Review	2008
National Science Foundation SBIR Review Panel	2008
Nortel Advisory Board	2008
CompuGirls Advisory Board	2007-2011
Reviewer Journal of Teacher Education	2006
Advisory Board Princeton Review	2001-present
Reviewer - Journal of Educational Computing Research	2003-2006
Reviewer - FOCUS on Learning Problems In Mathematics	2004-2006
Reviewer for McGraw Hill	2004
Review for Kluwer the Language of Science-- <i>Education and Information Technologies</i>	2002
USDE – Site Visit	2000
Detroit Public Schools – USI/NSF Site Visit	1997
Arizona Technology Council – State of Arizona	1996-1997
State of Louisiana Southern University Ph.D. Review	1997
Program Development Advisory Committee, Assoc. for Supervision and Curriculum Development	1997-
Syracuse University – Ed. Tech. Program Review	1997
NCATE Technology Advisory Committee	1996-1997
National Science Foundation Review Panels	1981-1997
	1999-2000
U.S. Department of Education Review Panels	1991-1996
	2000-2002
Software Consortium - Review Panel (Host)	1984-1995
Dissertation Review Panel - University of Malaya	1995
National Science Scholarship Program Panel	1994-1995
Advisory Board, NSF/TI/MAA Calculator Project	1991-1994
Advisory Board, Eisenhower National Clearing House, Ohio State University	1993-1998
Director, Arizona State University Conference, "Microcomputers in Education	1980-2000

SUPERVISION OF GRADUATE RESEARCH, THESIS, DISSERTATIONS

Number	Degree - Chair	Degree	Year
32	Masters-Arizona State University	Educational Media and Computers	1996-2006
11	Masters-Arizona State University	Educational Technology	2006-2010
Number	Degree-- Committee		
7	PhD- Arizona State University	Educational Technology	

CHAIR OF DOCTORAL COMMITTEES:

1. Dennis Nelson (Ed. D.)
(Graduated 1976) Elementary Education - Mathematics Education
(Director, BASIC Skills - Mesa Public Schools)
2. Charles Geer (Ph.D.)
(Graduated 1977) Elementary Education - Mathematics Education
(Professor, Texas Tech University)
3. Randy Souviney (Ph.D.)
(Graduated 1977) Elementary Education - Mathematics Education
(Professor, University of California, San Diego)
4. Marilyn Ford (Ph.D.)
(Graduated 1984) Elementary Education - Math & Computer Education
(Professor, University of Nevada, Las Vegas)
5. Donna Craighead (Ph.D.)
(Graduated 1985) Elementary Education - Computer Education
(Editor, Computer Software - Southwestern Publishing)
6. Sharman Pitcher (Ph.D.)
(Graduated 1986) Elementary Education - Computer Education
(U.S. Air Force - Videodisc research, development)
7. Gordon Reimer (Ph.D.)
(Graduated 1987) Elementary Education - Math & Computer Education
(Professor, Brandon University, Manitoba, Canada)

8. Patty Mulligan (Ph.D.)
(Graduated 1987) Elementary Education - Computer Education
(Professor, San Jose State University)
 9. Nancy Watson (Ph.D.)
(Graduated 1987) Elementary Education - Computer Education
(Consultant, New Zealand Technology Education)
 10. Nancy Martin (Ph.D.)
(Graduated 1989) Elementary Education - Computer Education
(Professor, California State University, U.S. Defense Schools – Panama Canal)
 11. Allen Cameron (Ph.D.)
(Graduated 1991) Elementary Education - Computer Education
(Coordinator/Teacher - Carl Hayden Magnet School)
 12. Janie Hydrick (Ph.D.)
(Graduated 1993) Elementary Education - Computer Education
(Past President, National Council of Teachers of English, Mesa Schools)
 13. Wayne Hartschuh (Ph.D.)
(Graduated 1994) Educational Media and Computers
(Technology Coordinator - State of Delaware)
 14. Barbara Clark (Ph.D.)
(Graduated 1995) Educational Media and Computers
(Professor, University of Nebraska)
 15. Charles Savitt (Ph.D.)
(Graduated 1996) Educational Media and Computers
(Instructional Technologist Chicago State University)
 16. Mike Charles (Ph.D.)
(Graduated 1997) Educational Media and Computers
(Professor, Pacific University)
 17. Amy Bradshaw(Ph.D.)
(Graduated 1997) Educational Media and Computers
(Professor, University of Oklahoma)
 18. Vito Amato(Ph.D.)
(Graduated 1999) Educational Media and Computers
(Manager, Curriculum Development-Cisco Systems)
 19. Leah Sutton
(Graduated 2000) Educational Media and Computers
(Technology –Quest Communications)
 20. Jon Storslee
(Graduated 2001) Educational Media and Computers
(Faculty-Maricopa Community College)
 21. Deborah Stirling
(Graduated 2002) Educational Media and Computers
(Research Science Director- Pearson Digital Learning)
 22. Mark Jowett
(Graduated 2003) Educational Media and Computers
(Dept. of Technology Coordinator-Davenport University – Dearborn)
 23. Helen Padgett
(Graduated 2004) Elementary Education - Computer Education
(Arizona State University WEST-Adaptive Curriculum)
 24. Donna Benson
(Graduated 2005) Educational Media and Computers
(Arizona State University—Student Services)
 25. Qi Dunsworth
(Graduated 2005 Co-Chair) Educational Technology
 26. Eric Miller
(Graduated 2005 Co-Chair) Educational Media and Computers
(Arizona State University-Hispanic Math Center)
 27. Rene Castaneda
(Graduated 2008) Educational Media and Computers
(Technology Director Isaac School District)
 28. Steve Salik
(Graduated 2010) Educational Media and Computers
(Director of Technology, Online Academic Services
W.P. Carey School of Business)
- Toni Robinson Educational Media and Computers
 Todd Kisciki (Co-Chair) Educational Technology
 Scott Kim Educational Technology
 Rusen Meylani (CoChair and faculty Advisor for his Assistantship and Fellowship! Math Education
 Alpay Bicer (Chair Interim faculty Advisor for his Assistantship and Fellowship! Educational Technology
 Indi Williams Educational Technology
 Quincy Conley Educational Technology