1986-2018

### Gary G. Bitter

|          |                                    |                                  | <b>Revised</b> – January 2, 2018 |
|----------|------------------------------------|----------------------------------|----------------------------------|
| Educati  | onal Technology                    |                                  |                                  |
| Mary L   | ou Fulton Teachers College         |                                  |                                  |
| Arizona  | a State University                 |                                  |                                  |
| Box 87   | 2111 Payne EDB 102D                |                                  |                                  |
| Tempe,   | AZ 85287-2111                      |                                  |                                  |
| Phone:   |                                    | E-Mail: <u>bitter@asu.edu</u>    |                                  |
| Voice:   | 480/965-4960                       | URL: http://garybitter.com/      |                                  |
| Fax:     | 480/946-1423                       |                                  |                                  |
| Cell     | 480-221-5696                       |                                  |                                  |
| Presen   | t Position:                        |                                  |                                  |
| Profess  | or of Educational Technology       |                                  | 1970-2018                        |
| Founde   | r and Executive Director, Technolo | gy Based Learning & Research     | 1986-2017                        |
| Senior ' | Technology Advisor Learning Scien  | nces Institute                   | 2013-2015                        |
| Origina  | al Arizona State University Emplo  | oyment Date:                     | August 1970                      |
| EDUC     | ATION                              |                                  |                                  |
| Ph.D.    | University of Denver               |                                  | 1969-1970                        |
| Mathen   | natics and Computer Education      |                                  |                                  |
| Disserta | ation Topic: Computer Application  | s Related to Student Achievement |                                  |
| Univers  | sity of California (summer)        |                                  | 1968                             |
| Univers  | sity of Missouri (summer)          |                                  | 1967                             |
| Univers  | sity of Michigan                   |                                  | 1965-1966                        |
| M.A.     | Emporia State University           |                                  |                                  |
|          | Thesis: Topology-Cut points of a   | 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

#### **ADMINISTRATIVE EXPERIENCES:**

| Coordinator, Educational Media and Computers                  | 1986-1999 |
|---|-----------|
| Acting Director, Arizona State University Computer Institute  | 1984-1985 |
| Co-Director, Microcomputers in Education Conference (founder) | 1980-2000 |

#### 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:

| <b>University Senate</b><br>University Senate Personnel Committee Chair | <b>2007-2015</b><br>2011-2012 |
|---|-------------------------------|
| Assistant Professor of Education  | 1970-1972                     |
| (Sabbatical Leave - A/Y 1976-77)  |                               |
| Associate Professor of Education  | 1973-1977                     |
| (Sabbatical Leave - Fall 1989, Fall 1996, A/Y 2003-04)                  |                               |
| Professor of Education  | 1977-Present                  |

### 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,      |                | 1985-1987 |

| Microcomputer Mathematics Seminars        |                      |                   |
|---|----------------------|-------------------|
| 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                      | Denver, CO           | Summer, 1970      |
| Supervisor of Student Teachers            |                      |                   |
| 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 | Wichita, KS          | 1963-1965         |
| Lecturer, Math                            |                      |                   |
| Derby Public Schools                      | Derby, KS            | 1962-1965         |
|   |                      |                   |

### **OTHER WORK EXPERIENCES:**

| Employed As Consultant                 | Type of Work  |
|--|---|
| Adaptive Curriculum                    | Research  |
| Digital Directions                     | Assessment  |
| Virtual Learning                       | SBIR Evaluator                                      |
| Adaptive Curriculum                    | Math Content Expert                                 |
| Enslow Publishing                      | Math Content Expert                                 |
| SchoolSoft                             | Math Content Expert                                 |
| Learning Point                         | Standards/Assessment                                |
| The CNA Corporation                    | RTEC Advisory Board                                 |
| Bell and Howell                        | Evaluation  |
| Milken Foundation                      | Technology Support                                  |
| Microsoft                              | Software Reviewer                                   |
| National Science Foundation            | Reviewer  |
| U.S. Department of Education           | Reviewer  |
| College Board                          | Calculator Workshop                                 |
| CTB McGraw Hill                        | Test Reviewer                                       |
| University of Houston                  | Calculator Development                              |
| Chicago Public Schools                 | Calculator Integration                              |
| Educational Testing Service            | PPST Advisory Board                                 |
| Media Share                            | Technology Based Math                               |
| Texas Instruments                      | Involved in Design of SuperSpeak and Math           |
| William Paterson College of New Jersey | Helped Develop Masters Degree in Computer Education |
| State of Colorado                      | Review Advanced Computer Education Degree           |
| Texas Instruments                      | Helped Develop & Design Math Explorer Calculator    |
| St. Peters College                     | Technology Research                                 |

January 2, 2018

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Date

2010-2012, 2015 2010-2011 2009-2012, 2015 2007-2011 2006-2007 2007-2008 2004-2005 2000-2004 1999-2000 1999-2000 1997

1993-1996, 2000 1993-1998, 2000

1994 1993-1995 1992 1992 1992-1994 1991-1993

1989-1990

1988-1991 1989-1991

1989

1989

### **OTHER WORK EXPERIENCES:**

| Employed As Consultant                      | Type of Work                              | Date       |
|---|---|------------|
| 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       |
| 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       |
| Kankankee, 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  |
|   |   |            |

### **OTHER WORK EXPERIENCES:**

| Employed As Consultant             | Type of Work                                    | Date             |
|------------------------------------|---|------------------|
| Science Research Associates        | Calculator Introduction                         | 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, Research Associate | Computer Consultant Programmer                  | 1967-1970        |

# **RESEARCH FUNDED PROJECTS:**

| APP DEVELOPMENT FOR ALZHEIMER'S STORY STARTERS AND EYEOBSERVE                    |                           |           |  |
|--|---------------------------|-----------|--|
| Funding Source: AZTE   | \$5,452                   | 2014-2016 |  |
| CLOUD COMPUTING AND THE PROCESSING OF BIG DATA-EY                                | E TRACKER RESEARCH        |           |  |
| Funding Source: Massively Parallel Technologies: Blue Cheetah                    | \$2,000,200               | 2013-2015 |  |
| PREPARING HIGH SCHOOL TEACHERS FOR SERVICE-ORIENTI                               | ED COMPUTER SCIENCE EDUCA | ATION     |  |
| 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 2004-200 |                           |           |  |
| AS A NATIONAL TEACHING RESOURCE FOR SCHOOL MATHEMATICS (EVALUATOR)               |                           |           |  |

| Funding source: NSF-Utah State University                                 | \$50,000                                | 2001 2005  |
|---|---|------------|
| NETS DIGITAL VIDEO LIBRARY (CO-PI)  | are to Use Technology (DT2)             | 2001-2005  |
| Funding Source. OS Department of Education. Freparing fontonow's feach    | \$1 405 137 \$3.6 million with cost sho | <b>P</b> 0 |
| DECIMAL TRAINING CENTER   | \$1,495,157\$5.0 minion win cost sha    | 1008 2005  |
| Funding Source: State of Arizona -  | \$2 632 372                             | 1998-2005  |
| r unding Source. State of Arizona -                                       | \$2,032,372                             |            |
|   |   |            |
| THE e-LEARNING NETWORK – LEARNING ANYTIME, ANYWHER                        | E!                                      | 1999-2004  |
| Funding Source: Fund for the Improvement of Postsecondary Education (FIP) | SE)                                     |            |
| US Department of Education -  | \$1,953,172\$4.1 million with cost sh   | are.       |
| LINKS (LEARNING INTEGRATING NETWORKING KNOWLEDGE)                         | SKILLS)                                 | 2000-2004  |
| Funding Source: State of Washington -                                     | \$1,396,000                             | 1000 1000  |
|   | \$52,500                                | 1998-1999  |
| Funding Source: State of Arizona -  | \$52,500<br><b>D</b>                    | 1008 1000  |
| STAR SCHOOLS LEADERSHIP AND EVALUATION ACTIVITIE (CC                      | \$546,000                               | 1998-1999  |
| VISUAL IZATION FOR SCIENCE AND ENCINEEDING EDUCATION                      | \$540,000                               | 1007 2000  |
| Funding Source: NSE -   | \$2 585 000                             | 1997-2000  |
| MULTIDISCIPLINARY RESEARCH ON THE NEXT GENERATION N                       |   | 1997-2000  |
| TECHNOLOGIES FOR INTERACTIVE DISTRIBUTED LEARNING (                       | Co-PI)                                  | 1997 2000  |
| Funding Source: Arizona State University -                                | \$150.000                               |            |
| MATH DISCOURSE PROJECT (Math •ed •ology ™) (Prvor - Co PI)                |   | 1995-1999  |
| Funding Source: NSF -   | \$2,300,000                             | 1770 1777  |
| CD-ROM: Math $\bullet ed \bullet ology^{TM}$                              |   | 1998       |
| ARIZONA COLLABORATIVE FOR EXCELLENCE IN THE PREPAR                        | ATION OF TEACHERS                       | 1994       |
| (Wycoff & Keller - Co PI's)   |   |            |
| Funding Source: NSF -   | \$100,000                               |            |
| MATH/SCIENCE TEACHER PREPARATION CD ROM (Flores - Co PI)                  |   | 1993-1994  |
| Funding Source: Eisenhower Funds - \$50,000                               |   |            |
| CD-ROM: The Guide   |   |            |
| INTEL MULTIMEDIA RESEARCH AND DEVELOPMENT (INSTRUC                        | TIONAL MEDIA DESIGN)                    | 1993-1995  |
| Funding Source: Intel -   | \$300,000, Equipment Grant \$120,000    |            |
| CD-ROM: Instructional Media Design, QUE College Education                 |   | 1997       |
| TEACHER PREPARATION AND ENHANCEMENT IN THE USE OF A                       | VAILABLE TECHNOLOGY                     | 1992-1995  |
| Funding Source: IBM -   | \$322,430; Equipment Grant; \$14,000    |            |
| Monograph: Report on the National Study of IBM's Teacher Preparation with | Technology                              |            |
| Grant Program. Monograph Series of Technology Based Learning and Research | ch, 7 1994.                             |            |
| Monograph: Report on the National Study of IBM's Teacher Preparation with | Technology                              |            |
| Grant Program. Monograph Series of Technology Based Learning and Researce | cn, 8 1994.                             | 1001 1004  |
| Eunding Source: IBM -   | \$103 000. Equipment Grant. \$20 000    | 1991-1994  |
| ADVANCED TECHNOLOCV RESEADCH CDANT  | \$105,000, Equipment Grant, \$80,000    | 1001.1002  |
| Funding Source: Teyas Instruments -                                       | \$30,000                                | 1771-1792  |
| COMMODORE FOUPMENT GRANT  | ψ50,000                                 | 1991       |
|   |   | -//1       |
| January 2, 2018   |   |            |

| Funding Source: Commod     | lore Business Machines;                            | \$65,000                              |           |
|----------------------------|--|---------------------------------------|-----------|
| CHRISTOPHER COLU           | MBUS CONSORTIUM                                    |                                       | 1990-1994 |
| Funding Source: Apple Co   | omputer - Equipment Grant \$32,000                 |                                       |           |
| <b>IBM RESOURCE CENT</b>   | 'ER  |                                       | 1990      |
| Funding Source: IBM Equ    | ipment and Software; \$85,000                      |                                       |           |
| ARIZONA STATE UNIV         | <b>ERSITY HISPANIC MATHEMATICS PROJE</b>           | CT (HISPANIC MATH PROJECT)            | 1989-1993 |
| Funding Source: NSF -      |  | \$708,360; IBM-Equipment Grant; \$150 | 0,000     |
| Paper:                     | Using Technology in the Teaching and Learning of   | Mathematics                           |           |
|                            | 4th Annual, NSBA, "Making Schools More Produc      | tive" Conference                      |           |
|                            | November 7-9, 1990.                                |                                       |           |
| Monograph:                 | Arizona State University Hispanic Math Project.    |                                       |           |
|                            | Monograph Series of Technology Based Learning a    | und Research, 6, 1993.                |           |
| CD-ROM:                    | Series of CD's on the topic of Measurement         |                                       |           |
| TEACHING MATHEM            | ATICS METHODS USING INTERACTIVE VID                | EODISC                                | 1989-1992 |
| (UNDERSTANDING TE          | ACHING)  |                                       |           |
| Funding Source: NSF;       | ,  | \$403,079; IBM-Equipment Grant; \$250 | 0.000     |
| Paper:                     | Using Technology in the Teaching and Learning of   | Mathematics                           | ,         |
| 4th Annual, NSBA, "Maki    | ng Schools More Productive" Conference,            |                                       |           |
| November 7-9, 1990.        |  |                                       |           |
| Paper:                     | Interactive Multimedia (IBM) With Videodisc Gen    | oboards and Base-Ten Blocks           |           |
| Presented at the 69th Annu | al Meeting of the NCTM, April 17-20, 1991.         |                                       |           |
| Paper:                     | Teaching Math Methods Using Interactive Videodis   | SC .                                  |           |
| Presented at the CUE Con   | Ference, Palm Springs, CA, May 8, 1992             |                                       |           |
| Paper:                     | Teaching Mathematics Methods Using Interactive M   | Multimedia.                           |           |
| Presented to the USDE, W   | ashington, D.C., November 23-24, 1991              |                                       |           |
| Monograph:                 | Teaching Mathematics Methods Using Interactive V   | Videodisc                             |           |
| Monograph Series of Tech   | nology Based Learning and Research, 4, 1992        |                                       |           |
| Monograph: Teachi          | ng Mathematics Methods Using Interactive Videodia  | sc: the TMMUIV research results.      |           |
| Monograph Series of Tech   | nology Based Learning and Research, 5, 1992        |                                       |           |
| CD-ROM:                    | Understanding Teaching: Implementing the NCTM      | Professional Teaching Standards       |           |
| (Mac and PC Versions), A   | ssociation for Supervision and Curriculum Developr | nent, 1997                            |           |
| ARIZONA STATE UNIV         | /ERSITY STAR SCHOOLS PROJECT (Subcont              | tract with TERC)                      | 1998-1990 |
| <b>F U A U A</b>           |  | # <b>73</b> 000                       |           |

 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

| CALCULAT  | FOR ASSI    | STED HIGHER ORDER THINKING: DEVELOPMENT AND RESEARCH                                   | 1988-1989 |
|-----------|-------------|--|-----------|
| Fur       | iding Sourc | ce: Texas Instruments; \$30,030  |           |
| Boo       | ok:         | Sourcebook for Teachers Using the Math Explorer Calculator,                            |           |
|           |             | (with Jerald Mikesell), Addison-Wesley Publishing Company,                             |           |
|           |             | Menlo Park, CA, 346 pages, 1990.   |           |
| Mo        | onograph:   | Calculator Series 90-1, "Calculator Project,"  |           |
|           |             | (with Mary M. Hatfield and Judy Lewis) Arizona State University/                       |           |
|           |             | Scottsdale Unified School District, Tempe, AZ, 1990.                                   |           |
| Mo        | onograph:   | 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.                   |           |
| Pap       | ber:        | NCTM and Numerous Organization Meetings.   | 1988-1991 |
|           |             | Chapter: 1992 NCTM Calculator Yearbook   |           |
| Pap       | ber:        | Calculator Conference, Calculator Research Findings,                                   |           |
|           |             | Houston, Texas, May 29, 1992.  |           |
| Pap       | ber:        | Using the Math Explorer Calculator: Activities and Research.                           |           |
|           |             | ICME VII, Quebec City, Canada. August 17, 1992.  |           |
| MICROCON  | MPUTER      | BASED MATHEMATICS  | 1986-1988 |
| Fur       | nding Sourc | ce: Apple Computer; Equipment grant \$40,000   |           |
| Boo       | ok:         | Appleworks in the Classroom Today. McGraw Hill, 1989.                                  |           |
| RETRAININ | NG SECO     | NDARY EDUCATION TEACHERS IN LOW DEMAND DISCIPLINES                                     | 1986-1987 |
| AS COMPU  | TER LEA     | RNING TEACHERS   |           |
| Fur       | nding: Sour | ce Arizona Department of Education for Economic Security; \$48,470.                    |           |
| Pap       | ber:        | National Educational Computing Conference, 1987.                                       |           |
| MICROCON  | MPUTER-     | BASED MATHEMATICS PROGRAM TO STRENGTHEN THE  |           |
| MATHEMA   | TICS CO     | MPETENCE OF PRE-SERVICE TEACHERS (MATH FITNESS PROJECT)                                | 1985-1988 |
| Fur       | nding Sourc | ce: NSF; \$228,235   |           |
| Pap       | ber:        | University of California, Riverside, 1984.   |           |
| Pap       | ber:        | International Commission on Mathematics Instruction, Strasburg, France, 1985.          |           |
| Pap       | ber:        | National Educational Computing Conference, 1986.                                       |           |
| Pap       | ber:        | World Congress of Education and Technology, 1986.                                      |           |
| Pap       | ber:        | NCTM and numerous State Math Association Meetings                                      |           |
| Art       | icle:       | "Back to Basics with Math for the Future," <i>Electronic Education</i> , January 1987. |           |
| Art       | icle:       | "Computer Assisted Mathematics - A Model Approach,"                                    |           |
|           |             | Computers In The Schools, Fall 1987.   |           |
| Art       | icle:       | "Educational Technology and the Future of Mathematics,"                                |           |
|           |             | School Science and Mathematics, October 1987.  |           |
| Art       | icle:       | "Microcomputer-Based Mathematics Fitness,"   |           |
|           |             | Technological Horizons in Education Journal, November 1987.                            |           |
| Art       | icle:       | "Microcomputer Assisted Testing,"  |           |
|           |             | Journal of Computers in Mathematics and Science Teaching, Summer 1987.                 |           |
| Stu       | dy Results: | Facilitating Academic Software Development,  |           |
| Edu       | ucom, 1987  | Section based on research results of Math Fitness Project.                             |           |

| MICROCOMPUTER BASED MATHEMATICS |  |           |
|---------------------------------|--|-----------|
| Fundin                          | g Source: IBM; \$90,000 Equipment Grant                                      |           |
| FEEDBACK TO                     | ) THE LEARNER  | 1985-1986 |
| Fundin                          | g Source: Provost Grant - Research Assistant; \$6,000                        |           |
| Paper:                          | National Educational Computing Conference, 1986.                             |           |
| Article                         | "Microcomputer Feedback to the Student/Learner" (with P. Mulligan)           |           |
|                                 | Ideal, Summer 1987. Vol. 2 pp 75-90.   |           |
| MICROCOMP                       | JTER BASED LEARNING: REMEDIAL MATH RESEARCH                                  | 1982-1985 |
| Fundin                          | g Source: Apple Foundation; \$161,000  |           |
| Paper:                          | AERA New Orleans, Los Angeles, 1984.   |           |
| Paper:                          | ICME 5 Adelaide, Australia, 1984.  |           |
| Book:                           | Apple LOGO Primer. Reston, VA: Reston Publishing, 1983.                      |           |
| Book:                           | Using a Microcomputer in the Classroom, Reston, VA; Reston Publishing, 1984. |           |
| Book:                           | Computer Literacy - Awareness, Applications and Programming,                 |           |
|                                 | Menlo Park, CA: Addison Wesley, 1986.  |           |
| Article                         | "Apple Newsletter."  |           |
| Paper:                          | NCTM and numerous computer organizations                                     |           |
| LITERACY TR                     | AINING MODEL   | 1981-1982 |
| Fundin                          | g Source: NSF - PreCollege: \$33,049   |           |
| Book:                           | Exploring with Computers. New York, NY: Julian Messner, 1981                 |           |
| Book:                           | Computers in Today's World. New York, NY: John Wiley & Sons, 1984            |           |
| Article                         | "The First Step Utilizing Microcomputers in Education and                    |           |
|                                 | Preparing Computer Literate Teachers." AEDS Monitor, 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 N                      | EEDS ASSESSMENT  | 1980      |
| Fundin                          | g Source: None   | 1,00      |
| Monog                           | raph: Arizona Microcomputer Needs Assessment, 1980                           |           |
| Article                         | "Arizona Computer Assisted Instruction Needs Assessment".                    |           |
|                                 | The Computing Teacher $8(4)$ : 31-34, 1981                                   |           |
| MATH ANXIE                      | <b>"V</b>  | 1978-1979 |
| Fundin                          | g Source: College of Education: \$1.000                                      | 1970 1979 |
| Paper:                          | NCTM Meetings.   |           |
| MATHEMATI                       | S EDUCATION - FUTURE   | 1978-1979 |
| Fundin                          | g Source: Personal Sabbatical  | 1770 1777 |
| Monog                           | raph: Mathematics Education in the Future. Cooperative for Science.          |           |
| Math a                          | nd Social Studies Arizona State University Tempe Arizona 1987                |           |
| Paner:                          | ICME IV Berkeley, CA 1980  |           |
| HAND-HELD (                     | ALCULATOR RESEARCH   | 1975-1977 |
| Fundin                          | g Source: State of Arizona: \$1,700  | 1715 1711 |
| Article                         | Migrant Educator Summer 1976   |           |
| Article                         | "Calculator Teacher Attitudes Improved Through                               |           |
| 7 introle                       | Teacher Education " School Science and Mathematics                           |           |
|                                 | reaction Education, School Science and Intaliantation,                       |           |

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|        | Article:       | "Curriculum Considerations for Use of the Hand-Held                            |           |
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|        |                | 2 (6): 15-16, 1978   |           |
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|        | Funding Source | ce: ASU Faculty Grant; \$2,000   |           |
|        | Article:       | "A Computer Assisted Management System For The Teacher,"                       |           |
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|        | Article:       | "Computer Control of Mediated Instructional Presentations,"                    |           |
|        |                | AEDS Monitor, 12 (3): 6-8, 1973  |           |
|        | Paper:         | Numerous Mathematics Meetings  |           |
| MATHE  | MATICS LAI     | BORATORY - ATTITUDINAL AND COGNITIVE GROWTH                                    | 1972-1974 |
|        | Funding Source | ce: None   |           |
|        | Article:       | "Materials, Competence, and Confidence in a District Math Lab,"                |           |
|        |                | Arithmetic Teacher, 20 (6): 86-89, 1974  |           |
|        | Paper:         | NCTM National Meeting  |           |
| EFFECT | FOF CALON      | ATTITUDE AND ACHIEVEMENT IN THE TEACHING OF MATHEMATICS                        | 1969-1970 |
|        | Funding Source | ce: NSF; Denver, Colorado; \$300,000 Research Associate                        |           |
|        | Paper:         | AERA, New York, NY, 1971   |           |
|        | Article:       | "Calculus with Computers," Two Year College Mathematics Journal,               |           |
|        |                | 1 (2): 41-49, 1970   |           |
|        | Article:       | "Computer Oriented Calculus," Journal of Educational Data Processing,          |           |
|        |                | 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                  |           |
|        |                |  |           |

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  Bitter, G. Using Technology in the Classroom, 7th Ed: (with J Legacy), Allyn & Bacon,
- Needham Heights, MA, 405 pages, 2008.
  Bitter, G. Using Technology in the Classroom Brief Edition, (with J Legacy), Allyn & Bacon, Needham Heights, MA, 272 pages, 2006.
  Bitter, G. Using Technology in the Classroom, 6<sup>th</sup> Ed: (with M. E. Pierson), Allyn & Bacon, Needham Heights, MA, 343 pages, 2002, 2005.
  Bitter, G. Using Technology in the Classroom DVD, Allyn & Bacon, Needham Heights, MA, 2005, 2008.
- Bitter, G. Mathematics Methods for Elementary and Middle School, (Mac and PC CD-ROM),
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- Bitter, G. *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.
- Bitter, G. Math ed eology MProfessional Development On-Line Series, Arizona State University, Tempe, AZ, 2003.
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- Bitter, G. Understanding Teaching: On-Line Professional Development Course, Arizona State University, Tempe, AZ, 2003
- Bitter, G. 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.
- Mathematics Methods for Elementary and Middle School, (Mac and PC CD-ROM), John Wiley & Sons, New York, NY, 2000.
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- Math •ed •ology ™ Series of 25 CDs and on-line Professional Development episodes,
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- International Society for Technology in Education, Eugene, OR, 1998.
- Working with Computers (with Catherine Skintik),
- Computer Literacy Press, Cincinnati, OH, 303 pages, 1998.
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- Allyn & Bacon, Needham Heights, MA, 1997
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#### *iOS* (Apple) Apps designed, developed & completed:

1. Hispanic math

2. The Ultimate IQ Test

3. General Overview of the SAT Reasoning Test

4. Detailed Overview of the SAT Reasoning Math Test

5. SAT Reasoning Math Review - Numbers and Operations

6. SAT Reasoning Math Review - Algebra and Functions
7. SAT Reasoning Math Review - Geometry
8. SAT Reasoning Math Review - Data Analysis, Statistics and Probability
9. PT3 NETS Video Library (5 APPS)
10. Stress-Less TRE
11. eyeObserve

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
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### PAPERS PRESENTED:

| Organization   | Торіс   | Date                        |
|--|---|-----------------------------|
| MasterCard Foundation scholars                           | Integrating Tech Into Education   | 01/14/2017                  |
| Tempe, AZ  |   |                             |
| 2nd ASU Learning Innovation Showcase                     | Design and Create Your own App  | 01/11/2017                  |
| Tempe, AZ  |   |                             |
| Kansas State University Math Banquet speaker             | A Quick Look at the Last 70 Years of Math Education                     | 04/14/2016                  |
| Manhattan, KS  |   |                             |
| Kansas State University Math Department                  | Careers in Math and Technology Education                                | 09/28/2015                  |
| Manhattan, KS  |   |                             |
| National Supervisors of Mathematics                      | Integrating Mobile Technology into the Mathematics Classroom            | 04/15/2015                  |
| Boston, MA   |   |                             |
| Arizona State University-MLFTC                           | Desirable Characteristics of an Ideal Online Learning Environment       | 12/11/2014                  |
| Tempe, AZ  |   |                             |
| National Supervisors of Mathematics                      | Using video-based APPs for Coaching and Professional                    | 04/07/2014                  |
| New Orleans, LA (Co-speaker Rusen Meylani)               | Development   |                             |
| National Council of Teachers of Mathematics              | Creating Higher-Achieving Math Students in the APP Generation           | 04/18/2013                  |
| Denver, CO (Co-speaker Rusen Meylani)                    |   |                             |
| International Society for Technology in Education (ISTE) | Using Free NETS Video-Based APPs for Professional Development           | 06/26/2012                  |
| San Diego, CO (Co-speaker Jane Legacy)                   |   |                             |
| National Supervisors of Mathematics                      | Identifying, Reviewing, Selecting, Creating, Developing & Applying Math | 04/23/2012                  |
| Philadelphia, PA (Co-speaker Rusen Meylani)              | Assessment Apps with Educational Value to Support Assessment of         |                             |
|  | Student Learning of Mathematics 4-23-2012                               |                             |
| National Council of Teachers of Mathematics              | "APPs Boom" Using Math APPs to Teach and Learn Math                     | 04/28/2012                  |
| Philadelphia, PA (Co-speaker Rusen Mevlani)              | C   |                             |
| The Computer-Based Math Education Summit                 | State-of-the-Art Technology for Computer Based Learning and Teaching    | 11/11/2011                  |
| London, England  | of Mathematics  |                             |
| International Society for Technology in Education (ISTE) | The Future of Technology in Education                                   | 08/30/2010                  |
| Philadelphia, PA   |   |                             |
| Fulbright Orientation                                    | Traditional and Emerging Technologies in Support of Foreign Language    | 06/29/2010                  |
| Tempe, AZ  | Instruction   |                             |
| National Educational Computing Conference                | Strategic ED Tech Thinking  | 06/30/2010                  |
| Denver, CO (ISTE) Panel                                  | 6   |                             |
| National Educational Technology Conference               | Technology Tools for Visual Learning in Mathematics                     | 04/23/2010                  |
| Denver, CO (ISTE)  |   |                             |
| National Council of Teachers of Mathematics              | Activities on Data Analysis and Probability Using Technology            | 01/14/2010                  |
| San Diego, CA  |   |                             |
| Florida Educational Technology Conference(FETC)          | Future of Educational Technology  | 07/01/2009                  |
| Orlando, FL  |   |                             |
| National Educational Computing Conference                | Creating Online Mathematics Objects                                     | 05/23/2009                  |
| Washington D.C. NECC Panel                               |   | 00,20,2003                  |
| International Conference on Living Theorists             | Online Technology Applications Can Be Used to Teach Middle School       | 04/25/2009                  |
| Budur Turkey   | Mathematics   | 0 11 201 2000               |
| National Council of Teachers of Mathematics              | Using Technology to Teach Mathematics and Science                       | 01/23/2009                  |
| Washington D C   | eshig reeniology to reach matematics and selence                        | 01/25/2009                  |
| Florida Educational Technology Conference(FETC)          | Using Online Digital Activity Objects to Teach Math and Science         | 06/30/2008                  |
| January 2, 2018  | Using Unine Digital Activity Objects to Teach Main and Science          | <sup>20</sup> Page 19 of 32 |
|  |   |                             |
| National Educational Computing Conference (NECC)         | Technology in a Math Classroom  |                             |

| National Educational Computing Conference (NECC)<br>San Antonio, TX                          | Strategic Ed Technology Thinking: Panel  | 07/01/2008               |
|--|--|--------------------------|
| Bahceshir University   | Emerging Technologies in Education   | 05/15/2008               |
| Istanbul, Turkey   | Preparing for the Future   |                          |
| American Educational Research Association (AERA)<br>New York, NY                             | Using Multimedia to Teach Standards-Based Democratic Discourse                               | 03/26/2008               |
| American Educational Research Association (AERA)<br>New York, NY                             | Using Multimedia to Teach Standards-Based Discourse: Considerations for<br>Program Design    | 03/25/2008               |
| Greater San Diego Math Conference<br>San Diego, CA   | Using Online Digital Activity Objects to Teach Math  | 02/01/2008<br>01/23/2008 |
| Florida Educational Technology Conference(FETC)<br>Orlando, FL                               | Using Online Digital Activity Objects to Teach Math  | 11/26/2007               |
| Software Information Industry Association (SIIA) Panel<br>New, NY                            | Technologies Impact on Education   |                          |
| EDNET 2007 (with P. Skiera)<br>Chicago, IL   | Technologies for Professional Development  | 09/10/2007               |
| National Educational Computing Conference (NECC)<br>Panel                                    | Will Technology Change Education As We See It Today?   | 06/27/2007               |
| San Diego  |  | 01/25/2007               |
| Florida Educational Technology Conference(FETC)<br>Orlando, FL                               | Gaming and Education   | 03/26/2006               |
| Florida Educational Technology Conference(FETC)<br>Orlando, FL                               | Online Professional Development  |                          |
| Greater San Diego Mathematics Council<br>San Diego, CA                                       | Digital (DVD/Online) Math Lessons: Connecting Technology with the<br>Teaching of Mathematics | 02/03/2005               |
| Florida Educational Technology Conference<br>Orlando, FL                                     | Using Digital Technologies to Enhance Teaching and Learning                                  | 01/28/2005               |
| NSBA: Technology and Learning Conference<br>Denver, CO                                       | The NETS Digital Video Library   | 10/27/2004               |
| Society for Applied Learning Technology® (SALT)<br>Interactive Technologies<br>Arlington, VA | Meeting Teacher Quality Standards with Technology: The NETS Digital Video Library            | 08/18/2004               |
| National Educational Computing Conference (NECC)   | Video Cases as a Catalyst for Change   | 06/21/2004               |
| Milken Institute Global Conference   | Breakout Session: Understanding the Next Wave of Technology in<br>Education                  | 04/28/2004               |
| American Educational Research Association (AERA)<br>San Diego, CA                            | Evaluating the Effectiveness of e-Learning Modules   | 04/15/2004               |
|  | Investigating Students' Perceptions of an Online Learning Environment                        |                          |
| Society for Information Technology and Teacher Education (SITE)                              | Implementing Video Cased in Faculty Professional Development                                 | 03/03/2004               |
| Atlanta, GA  |  |                          |
| Society for Applied Learning Technology® (SALT)<br>New Learning Technologies<br>Orlando, FL  | Developing an Online Instructional Media Design Course/Training Module                       | 02/19/2004               |
|  |  | _                        |

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| Greater San Diego Mathematics Council<br>San Diego, CA | Math Applications: Using the National Digital Video Library to Improve<br>the Teaching of Mathematics | 02/06/2004    |
|--|---|---------------|
| Society for Applied Learning Technology® (SALT)        | A Web-based Authoring Tool for eLearning  | 08/06/2003    |
| Interactive Technologies                               |   |               |
| Arlington, VA  |   |               |
| Society for Applied Learning Technology® (SALT)        | Video Cases as Learning Tools   | 08/06/2003    |
| Interactive Technologies                               | 8   |               |
| Arlington, VA  |   |               |
| Global Connections World Technology Conference         | Mathedology <sup>TM</sup> · Online Professional Development Using Streaming Video                     | 07/30/2003    |
| Phoenix AZ   |   | 01/2002       |
| National Educational Computing Conference (NECC)       | Achieving "Digital Fauity"  | 07/01/2003    |
| Seattle WA (co-Speaker)                                | Remeving Digital Equity   | 07/01/2005    |
| American Educational Passarch Association (AEPA)       | Evaluation of the National Educational Technology   | 04/22/2003    |
| Chicago II (co. speaker)                               | Standarda Digital Video Library   | 04/22/2003    |
| Chicago, IL (co-speaker)                               | Standards Digital Video Library   | 02/29/2002    |
| Society for information Technology and Teacher Ed      | Portrait of Digital Equity-The IT Fundamentals Curriculum   | 03/28/2003    |
| Albuquerque, NM (co-speaker)                           |   |               |
| Society for Applied Learning Technology® (SALT)        | From Portals to Knowledge Brokers   | 02/20/2003    |
| Orlando, FL (co-speaker)                               |   |               |
| Greater San Diego Math Council                         | Lesson Plans For Integrating Technology Into the  | 02/08/2003    |
| San Diego, CA  | Teaching of Mathematics   |               |
| Florida Educational Technology Conference              | Technology's Role in the Education of Today's Student   | 02/04/2003    |
| Orlando, FL  |   |               |
| Fund for the Improvement of Postsecondary Education    | How to Turn Lemons into Lemonade!   | 11/23/2002    |
| Washington D.C.  |   |               |
| League for Innovation in the Community College         | Taking the Pain Out of Information Technology: A Model Course   | 11/17-20/2002 |
| Conference on Information Technology                   |   |               |
| Long Beach CA (co-speaker)                             |   |               |
| Association of Educational Communication & Tech        | The NETS Digital Library: Creating A Digital Video Database   | 11/14/2002    |
| Dallas TX (Co-Speaker)                                 | To Promote Technology Integration   | 11/14/2002    |
| NSBA: Technology and Learning Conference               | Integrating Technology into the Curriculum  | 11/13/2002    |
| Dallas TV  | integrating rechnology into the Currentum   | 11/13/2002    |
| Virtual Learning Academic and Carry and Conference     | Cuidalinas fan Dasianing and Davalaning Onling a Lasming Courses                                      | 07/11/2002    |
| virtual Learning: Academic and Corporate Conference    | Guidelines for Designing and Developing Online e-Learning Courses                                     | 07/11/2002    |
| Columbia University (co-speaker)                       | Including Intellectual Property Considerations  |               |
|  |   | 0.1/02/2002   |
| American Educational Research Assoc (AERA)             | Investigating Instructional Utility and Implementation  | 04/02/2002    |
| New Orleans, LA (Co-Speaker)                           | Needs in an Online Environment: A Theory-guided Evaluation  |               |
| United Arab Emirates University                        | Integrating Technology into the Curriculum  | 03/17/2002    |
| Al-Ain, United Arab Emirates                           |   |               |
| Florida Educational Technology Conference (FETC)       | The NETS Digital Video Library  | 03/08/2002    |
| Orlando, Fl (Co-Speaker)                               |   |               |
| Florida Educational Technology Conference (FETC)       | Online Digital Solutions for Establishing New Teaching and Learning                                   | 03/06/2002    |
| Orlando, Fl  | Environments  |               |
| Greater San Diego Mathematics Council                  | National Educational Technology Standards (NETS) for Teachers: Math                                   | 02/01/2002    |
| San Diego, CA  | Integration—Essential Conditions, Resources, Assessment Strategies                                    |               |
|  |   |               |

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| Greater San Diego Mathematics Council<br>San Diego, CA  | National Educational Technology Standards (NETS):<br>A Math Perspective  | 02/01/2002 |
|---|--|------------|
| Fund for the Improvement of Postsecondary Education<br>(FIPSE)  | Building Scenario-Driven, Real-World Online Courses  | 11/18/2001 |
| San Diego, CA   |  |            |
| World Conference on Educational Multimedia,   | KEYNOTE:   | 06/30/2001 |
| Tampere, Finland  | Guidelines for Designing and Developing Online e-Learning Courses<br>Including Intellectual Property Considerations                                  |            |
| American Educational Research Association (AERA)<br>Seattle, WA   | Educational Reform in the Era of Cyber Space Discussant Evaluation of a<br>Course in the e-Learning Network:<br>The Perspectives of Instructors      | 04/11/2001 |
| Society for Information Technology and Teacher<br>Education   | ISTE NETS for Teachers: Integration of Technology into Teacher<br>Preparation  | 03/07/2001 |
| Orlando, FL   |  |            |
| Greater San Diego Math Council<br>San Diego, CA   | National Educational Technology Standards:<br>A Math Perspective   | 02/02/2001 |
| Florida Educational Technology Conference<br>Orlando, Fl  | Anytime, Anywhere: Virtual e-Learning  | 01/12/2001 |
| Northern California Math Council  | Web-Based Professional Development for Teachers  | 12/01/2000 |
| Fund for the Improvement of Post Secondary Education  | Using Technology to Work with Underserved Populations  | 11/18/2000 |
| San Diego, CA   |  |            |
| Sacramento, CA  | National Educational Technology Standards for Teaching Guidelines for<br>Designing and Developing Online Courses                                     | 11/10/2000 |
| International Congress on Mathematical Education<br>Tokyo, Japan  | Web-based Multimedia Professional Development in Mathematics<br>Education: Mathedology <sup>TM</sup>   | 07/29/2000 |
| National Educational Computing Conference (NECC)  | National Educational Technology Standards  | 06/26/2000 |
| Computer Using Educators Conference   | Guidelines for Designing and Developing On-line Courses  | 05/12/2000 |
| Palm Springs, CA  | The National Educational Technology Standards (NETS) Project:<br>Implications and Resources  |            |
| American Educational Research Association (AERA)<br>New Orleans, LA   | Transforming Formative Evaluation Data:<br>Comparative Content Analysis to Determine Learner Variability<br>Professional Development and Technology— | 04/24/2000 |
|   | New Approaches and Outcomes  |            |
|   | Recent Research on Math-ed-ology: An Interactive<br>Multimedia CD-ROM  |            |
| Florida Educational Technology Conference<br>Orlando, FL  | Guidelines for Designing and Developing Online Courses   | 03/01/2000 |
| Association of Teacher Educators<br>Orlando, FL   | Math •ed •ology <sup>™</sup> : Interactive Multimedia for Learning National Teaching Standards   | 02/16/2000 |
| 11 <sup>th</sup> Annual Society for Information Technology and<br>Teacher Education Conference<br>San Diego, CA | National Educational Technology Standards (NETS) Project – Preservice<br>Teacher Education Standards   | 02/08/2000 |

| Greater San Diego Mathematics Annual Conference<br>San Diego CA         | Web-based Professional Development: <i>Math•ed•ology</i> <sup>TM</sup>   | 02/04/2000 |
|---|--|------------|
| Computer Using Educators Conference                                     | National Educational Technology Standards (NETS)   | 10/28/1999 |
| Sacramento, CA  | Project: Implications and Resources for the Classroom  |            |
| National Educational Computing Conference (NECC)                        | National Education Technology Standards (NETS):  | 06/23/1999 |
| Atlantic City, NJ   | Unleashing the Power of Technology for Learning  |            |
| <b>5</b> 7  | The Hidden Costs of Software Upgrades and How to Avoid Them  |            |
| Computer Using Educators Conference<br>Palm Springs, CA                 | The 5 Components that a Pre-Service Technology Education Course<br>Cannot Live Without   | 05/08/1999 |
|   | The ISTE National Educational Technology Standards   | 05/07/1999 |
| National Council Of Supervisors of Math Conference<br>San Francisco, CA | Web-based Professional Development- <i>Math</i> •ed•ology <sup>TM</sup>  | 04/20/1999 |
| American Educational Research Association (AERA)<br>Montreal, Canada    | Evaluation as Both Formative and Summative:<br>A Study of Teachers' Use of Interactive Multimedia To Learn National<br>Teaching Standards              | 04/22/1999 |
|   | Multiple Perspectives from Four Stakeholder Groups On Interactive<br>Multimedia  | 04/19/1999 |
| Florida Educational Technology Conference                               | Professional Development, Anytime, Anywhere:   | 03/17/1999 |
| Orlando, FL   | Math•ed•ology™   |            |
| Pacific Asia Conference on Expert Systems                               | Comparison of Development Methods of a Multimedia  | 02/11/1999 |
| Los Angeles, CA (Co-Speaker)  | Knowledge Base System: Authoring Tool vs. Web-based Version  |            |
| Greater San Diego Mathematics Council<br>San Diego, CA                  | Professional Development Emphasizing Teacher/Student<br>Discourse Including Bilingual Examples   | 02/05/1999 |
| American Evaluation Association   | Investigating the Relative Utility of Electronic Data  | 11/06/1998 |
| Chicago, IL (Co-Speaker)  | Collection for Evaluation of Interactive Multimedia  |            |
| Technology Leadership Conference<br>Athens, GA                          | Surviving Technology (Opening General Session, Keynote)  | 10/28/1998 |
| National Educational Computing Conference (NECC)                        | National Educational Technology Standards (NETS) Project:  | 06/22/1998 |
| San Diego, CA   | Defining Technology Standards for preK-12 Students   |            |
| Computer Using Educators Conference<br>Palm Springs, CA                 | A Multimedia Professional Development Seminar for Math Teachers:<br>Grades K-8   | 05/09/1998 |
| American Educational Research Association (AERA)<br>San Diego, CA       | Studies on Computer/Technological Innovations in Data Collection,<br>Assessment, and Instructional Practices:<br>Evaluating Electronic Data Collection | 04/14/1998 |
| Association for Supervision and Curriculum<br>San Antonio, TX           | Understanding and Implementing the NCTM Teaching Standards Through<br>a Multimedia Professional Development Seminar                                    | 03/22/1998 |
| Florida Educational Technology Conf. (FETC)<br>Orlando, FL              | The Hispanic Math Project: Area and Perimeter  | 03/06/1998 |
| Greater San Diego Mathematics Council<br>San Diego, CA                  | Emphasizing Math Discourse in Your Teaching  | 02/06/1998 |
| Computer Using Educators Conference<br>Santa Clara, CA                  | Math •ed •ology <sup>TM</sup> —A Multimedia Approach to Professional Development   | 10/17/1997 |
| EdNET 97<br>Scottsdale, AZ  | Issues of Concern to the Higher Ed Market  | 09/24/1997 |

Page **23** of **32** 

| National Educational Computing Conference                                  | National Educational Technology Standards (NETS) Project   | 07/01/1997 |
|--|--|------------|
| (NECC '97), Seattle WA   |  | 04/15/1007 |
| National Council of Supervisors of Mathematics                             | Math •ed •ology ™  | 04/15/1997 |
| (NCSM), Minneapolis-St. Paul, MN   |  | 04/11/1005 |
| (MIDL), Tempe, AZ  | Research Issues with Electronic Multimedia Courseware  | 04/11/1997 |
| American Educational Research Association (AERA)                           | Writer's Solution: An Interactive Media Program for Building Writing<br>Proficiency Skills for Middle School Students            | 03/25/1997 |
| Association for Supervision and Curriculum Development                     | Using a CD-ROM Seminar for Professional Development in Mathematics   | 03/24/1997 |
| Baltimore MD   | Using a CD KOW Benning for Professional Development in Mathematics   | 03/24/1997 |
| Association of Mathematics Teacher Educators<br>Washington, D.C.           | Using Technology to Support Teachers' Understanding of the Teaching<br>and Learning of Mathematics                               | 02/16/1997 |
| Greater San Diego Mathematics Council<br>San Diego, CA                     | Professional Development for the NCTM Curriculum and Professional<br>Teaching Standards  | 02/07/1997 |
| Computer Using Educators Conference<br>Santa Clara, CA                     | Matheed •ology TM : A Multimedia Approach to Professional Development  | 10/25/1996 |
| National Council of Teachers of Mathematics<br>Kansas City, MO             | Implementing the NCTM Professional Standards for Teaching<br>Mathematics: A Multimedia Approach                                  | 10/10/1996 |
| International Council Mathematics Education (ICME)<br>Seville, Spain       | Understanding Teaching: Implementing the NCTM Professional<br>Standards for Teaching Mathematics                                 | 07/20/1996 |
|  | Math•ed•ology <sup>TM</sup> : A Multimedia Approach to Professional Development<br>(Presented by Dr. Harold Frederick            |            |
|  |  | 07/16/1996 |
| National Educational Computing Conference<br>Minneapolis, MN               | Teaching Milestones for K-12 Education: Building Standards for all<br>Students   | 06/13/1996 |
| American Educational Research Association (AERA)<br>New York, NY           | Toward Guidelines for the Development and Research of Interactive<br>Multimedia: Experiences of US & Canadian Projects Symposium | 04/09/1996 |
| Teachers Teaching with Technology (T3)<br>Los Angeles, CA                  | Technology and the Teaching of Mathematics   | 02/23/1996 |
| Quest for the Best FETC/FATIC Conference                                   | A Multimedia Approach to Professional Development  | 02/17/1996 |
| 16 <sup>th</sup> Annual Texas Computer Education Association<br>Austin, TX | A Multimedia Approach to Professional Development Using Streaming<br>Video   | 02/09/1996 |

### **Research and Editorial**

- Scientific Board, Computers in Human Behavior, 1995-present.
- Editorial Board, Journal of Research on Technology in Education, 1999-present
- Educational Evaluation and Policy Analysis (EEPA) 2014-2015
- Journal of Mathematical Research and Application (JMRA), 2014
- Journal of Research in Mathematics Education, reviewer 2013, 2014, 2015, 2016, 2017, 2018
- Journal of Educational Computing Research 2013-2015
- Journal of Information Technology Education, International Board of Reviewers 2011-present
- American Educational Research Journal, reviewer-2011, 2012, 2013, 2014, 2015, 2016

- NSF Panel Review Team 2015, 2016
- Journal of Teacher Education, reviewer 2013, 2014, 2015
- University of Malaysia dissertation reviewer PhD reviews 2013, 2014, 2015, 2017
- Journal of Research in Mathematics Education, reviewer 2010, 2011, 2015, 2016
- Journal of Information Technology Education, International Board of Reviewers 2011-present
- Journal of Teacher Education, reviewer 2008-2010, 2011, 2016, 2017
- Investigations in Mathematics Learning 2007-2010
- University of Malaysia dissertation review 2009
- International Association of Science and Technology for Development (IASTED) Program Reviewer 2006, 2013
- Editorial Board American Educational Research Journal 2003-2005
- 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.
- Editor, School Science and Mathematics, 1982-1988.
- 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.
- 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:**

EDT440/540: Conceptualizing, Creating & Marketing APPS 2012-2017—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   | DATES           |
|--|-----------------|
| American Association of University Professors                                | 1967-2011       |
| (Colorado College Acting Chair - 1969)                                       |                 |
| American Educational Research Association                                    | 1970-2016       |
| Editorial Board American Educational Research Journal                        | 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 -lifetime  |
| 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       |
| Co-P.I. – USDE Grant to Develop Technology Standards                         | 1997-1980       |
| 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 (Elected)  | 1988-1989       |
| Association for Development of Instructional Systems                         | 1968-1976       |

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| California Mathematics Association                           | 1990-1995         |
|--|-------------------|
| Futuristic Society   | 1976-1979         |
| National Council of Teachers of Mathematics (NCTM)           | 1962-present      |
| Lifetime Achievement Award                                   | 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              |
| National Council Supervisors of Math (NCSM)                  | 1978-Present      |
| Phi Delta Kappa  | 1969-2011         |
| Computer Seminars  | 1983              |
| Research Council for Diagnostic and Prescriptive Mathematics | 1977-2001         |
| Mathematical Association of America                          | 1967-199 <b>9</b> |
| School Science and Mathematics Association                   | 1962-2007         |
| Editor, School Science and Mathematics Journal               | 1981-1988         |
| Chapter in Yearbook - Microcomputers for Teachers            | 1982              |
| U.S. Metric Association                                      | 1975-1982         |

### ACADEMIC ACHIEVEMENTS:

| Nature of Distinction                            | Awarded By  | Date  |
|--|---|-------|
| Distinguished Mathematics Alumnus Award          | Kansas State University                                   | 2016. |
| 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  |
| International Society of Technology in Education | ISTE  | 1990  |
| Lifetime Achievement Award                       |   |       |
| 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  |

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| 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**

| 13, 2015<br>11-2012 |
|---------------------|
| 10                  |
| 08-2010             |
| 10                  |
| 09                  |
| 09                  |
| 09                  |
| 08                  |
| 08, 2015            |
| 08                  |
| 07-2011             |
| 06                  |
| 01-present          |
| 03-2006             |
| 04-2006             |
| 004                 |
|                     |

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| Review for Kluwer the Language of ScienceEducation and Information Technologies           | 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                 |           |  |
| Director, Arizona State University Conference, "Microcomputers in Education               |           |  |

### SUPERVISION OF GRADUATE RESEARCH, THESIS, DISSERTATIONS

| Number | Degree - Chair                   | Degree                          | Year      |
|--------|----------------------------------|---------------------------------|-----------|
| 39     | Masters-Arizona State University | Educational Media and Computers | 1996-2006 |
| 63     | Masters-Arizona State University | Educational Technology          | 1996-2016 |
| Number | Degree Committee                 |                                 |           |
| 85     | PhD- Arizona State University    | Educational Technology          |           |

### CHAIR OF DOCTORAL COMMITTEES:

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

(Graduated 1987) 8. Patty Mulligan (Ph.D.) (Graduated 1987) 9. Nancy Watson (Ph.D.) (Graduated 1987) 10. Nancy Martin (Ph.D.) (Graduated 1989) 11. Allen Cameron (Ph.D.) (Graduated 1991) 12. Janie Hydrick (Ph.D.) (Graduated 1993) 13. Wayne Hartschuh (Ph.D.) (Graduated 1994) 14. Barbara Clark (Ph.D.) (Graduated 1995) 15. Charles Savitt (Ph.D.) (Graduated 1996) 16. Mike Charles (Ph.D.) (Graduated 1997) **17.** Amy Bradshaw(Ph.D.) (Graduated 1997) 18. Vito Amato(Ph.D.) (Graduated 1999) 19. Leah Sutton (Graduated 2000) 20. Jon Storslee (Graduated 2001) 21. Deborah Stirling (Graduated 2002) 22. Mark Jowett (Graduated 2003) 23. Helen Padgett (Graduated 2004) 24. Donna Benson (Graduated 2005) 25. Oi Dunsworth (Graduated 2005 Co-Chair) 26. Eric Miller (Graduated 2005 Co-Chair) 27. Rene Castaneda (Graduated 2008) 28. Steve Salik (Graduated 2010)

29. Todd Kisiciki (Co-Chair)

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(Professor, Brandon University, Manitoba, Canada) Elementary Education - Computer Education (Professor, San Jose State University) Elementary Education - Computer Education (Consultant, New Zealand Technology Education) Elementary Education - Computer Education (Professor, California State University, U.S. Defense Schools - Panama Canal) Elementary Education - Computer Education (Coordinator/Teacher - Carl Hayden Magnet School) Elementary Education - Computer Education (Past President, National Council of Teachers of English, Mesa Schools) Educational Media and Computers (Technology Coordinator - State of Delaware) Educational Media and Computers (Professor, University of Nebraska) Educational Media and Computers (Instructional Technologist Chicago State University) Educational Media and Computers (Professor, Pacific University) Educational Media and Computers (Professor, University of Oklahoma) Educational Media and Computers (Manager, Curriculum Development-Cisco Systems) **Educational Media and Computers** (Technology - Quest Communications) Educational Media and Computers (Faculty-Maricopa Community College) Educational Media and Computers (Research Science Director- Pearson Digital Learning) Educational Media and Computers (Dept. of Technology Coordinator-Davenport University - Dearborn) Elementary Education - Computer Education (Arizona State University WEST-Adaptive Curriculum) Educational Media and Computers (Arizona State University-Student Services) Educational Technology Educational Media and Computers (Arizona State University-Hispanic Math Center) Educational Media and Computers (Technology Director Isaac School District) Educational Media and Computers (Director of Technology, Online Academic Services W.P. Carey School of Business)

Educational Technology

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Faculty Arizona State University (Graduated 2012) 30. Justin Shewell Educational Technology (Graduated 2013) Faculty Arizona State University 31. Caroline Savio-Ramos Educational Technology (Graduated 2016) Hewlett Packard 32. Alpay Bicer Educational Technology Adaptive Curriculum (Graduated 2016) 33. Rusen Meylani Math & Technology Education Instructor of Mathematics and Engineering, Country Gardens Charter Schools (Graduated 2016) 34. Jim Cunningham Learning Literacies and Technologies Big Data Researcher ED PLUS (Graduated 2017) 35. Elaine Rettger Educational Technology (Graduated 2017) Instructional Designer-ASU