

VITA

KEANE, DOROTHY L., Ed.D.
Professor of Mathematics Education
and Instructional Technology

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1. Academic Studies

| | | | |
|----------------------|--|-----------------------|---------|
| Ed.D. | Wayne State University | Mathematics Education | 1973 |
| <i>Dissertation:</i> | <u>An Exploration and Analysis of the Nuffield Mathematics Teaching Project with Reference to its Current Use in Selected British Schools</u> (Study conducted in Great Britain) | | |
| MATM | University of Detroit | | 1971 |
| B.S. | College of Mt. St. Joseph | | 1963 |
| | Studied language and culture at Summer Institute, Seoul, Korea | | 1989 |
| | Studied language and culture at Universidad Autonoma, Guadalajara & CSLA | | 1974-75 |

2. Professional Experience

| | | |
|--------------|---|---|
| 1999- 2002 | California State University | Asst. Director, K-18 Math Preparation |
| 1973-Present | California State University, Los Angeles | Faculty, Mathematics Education & Instr.Tech |
| 1994-96 | California State University, Los Angeles | Chair, Academic Senate |
| 1980-82 | California State University, Los Angeles | Acting Associate Dean |
| 1978-79 | California State University, Los Angeles | Assoc. Director Desegregation Institute |
| 1975 (Su) | Universidad Autonoma, Guadalajara | Visiting Professor |
| 1971-73 | Wayne State University (Full-time faculty member with rank of instructor in the invitational doctoral fellowship program.) | Instructor: Mathematics Education |
| 1970-71 | University of Illinois | Instructor: Elementary Education |
| 1959-70 | Teacher: Elementary and Junior High School | |

3. Honors/Awards

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| 2002 | Outstanding Alumni Award, College of Mount St. Joseph, Cincinnati, Ohio |
| 1999 | Women of California State University, LA Inaugural Award |
| 1997 | Innovative Teaching Award, CSLA |
| 1989-90 | Outstanding Professor Award, CSLA |

4. Current Professional and Academic Association Memberships

- * National Council of Teachers of Mathematics
- * California Mathematics Council, Southern Section
- * National Council of Supervisor's of Mathematics (past Board Member & Western Director)
- * National Council of Supervisor's of Mathematics Technology Advisory Committee (Past Chair)
- Los Angeles City Teachers of Mathematics Association (LACTMA)
- Mathematics Association of America

5. Professional Activities (non-teaching)

Member of Technology Advisory Committee, College of Mount St. Joseph, Cincinnati, Ohio (2001-
Member of CSLA Elementary Subject Matter Committee (2002)
Member of CSU Extended Entry Level Mathematics Development Committee ELM) (2001-2002)
Member California Commission for Teaching Credentials (CCTC) Secondary Mathematics Panel
Member Advisory Committee for NCTM Illuminations Project (1999-2002)
Member of National Council of Teachers of Mathematics Electronic Resources Committee (Chair,1999)
Member of Teacher Education and K-12 Relations Committee, CSU Academic Senate
Member of CSU President's Task Force on Rewards & Resources for K-18 Education

Member of CSU Cornerstone Task Force on Post-baccalaureate and Graduate Education
Member of CSU Academic Information Resources Committee
Member of Board of CSU Institute of Teaching and Learning (ITL)
Referee for NCTM Journals: Teaching Children Mathematics and Mathematics Teaching in the Middle School
Reviewed Using Manipulatives To Teach Mathematics (1996). ETA Publishing

6. Publications (sample)

- Keane, Dorothy L., Hart, Eric, Mathematics Investigation using Geosolids. Illumination web site, National Council of Teachers of Mathematics (2000).(<http://www.nctm.org/illuminations>)
Keane, Dorothy L., Teaching and Learning Module of the CSLA Information Competence World Wide Web Site (1998).
Blackman,B, Freund,S, Keane,D, Gellman-Danley,B, Wood, G and Rubey, D (1997). Information Resources and Library Services for Distance Learners: A Framework for Quality. Consortium for Educational Technology for University Systems (CSU-SUNY-CUNY).
Keane, Dorothy L. Pre-Number Experiences for Young Children. Monograph of Early Childhood Conference of Japan: Osaka, Japan (1997)
Keane, Dorothy L., Carpenter, Roland L.(1995). Problem Solving With LOGO, (6th ed.). Los Angeles: Kencar Associates.
Keane, Dorothy L. and Carpenter, Roland L.(1993). Geometry: Area of Triangles. (Computer courseware). Santa Barbara, CA: Intellimation
Carpenter, Roland L. and Keane, Dorothy L.(1993). Constellations. (Computer courseware). Santa Barbara, CA: Intellimation
Keane, Dorothy L.(1992). Problem Solving with Logo. In James Wiebe, Using Computers in the Teaching of Mathematics. Frank Beadle Publications.
Keane, Dorothy L.(1991). Geometry: Area and Perimeter. (Computer courseware). Santa Barbara, CA: Intellimation.
Keane, Dorothy, Gaither, Greg, "Academic Software Development Survey," Facilitating Academic Software Development, ed. J. Sprecher. Educom/Academic Computing Software Initiative Monograph 2. (1988) (Results of national survey of selected institutions of higher education)
Keane, et. al, Laidlaw Mathematics Series 2000, Laidlaw Publishing Company (Grades K-8) (1987)
Keane, Dorothy L. "Creating a Problem-Solving Environment in the Classroom", Laidlaw Mathnotes, Volume 4. (1987)
Keane, Dorothy, Comparison of the California Mathematics Framework with the NCTM Agenda of Action. Laidlaw Mathnotes, Volume 1. (1986)
Keane, Dorothy L., "Energy Conservation Curriculum for Elementary Education", Southern California Edison Company. (1982)

7. Research

1999-2001 Principal Investigator of Study of Developmental Mathematics in the CSU.
1997-8, Evaluator of Lincoln Project: Lincoln and Garfield High Schools and CSLA.
1996, Developed Evaluation Design for Lincoln Project to Attract Students to Science-related Careers(NASA: funded)
1995, Faculty Development in Using Technology to Enhance Teaching & Learning in the CSU, one of two principal authors of the proposal submitted to the CSU Commission on Learning Resources & Instructional Technology (CSU funded: \$1.5 million)
1995, Study of the CSU "liberal studies" programs for prospective teachers. (I wrote the proposal and the design of the study. Funded by CSU Academic Program Improvement (API); \$50,000 contracted to PERC Research Group at CSLA to carry out the study.
1992-1995 Evaluation of NSF, HANDS ON SCIENCE PROJECT, California State University, Los Angeles (three years - three evaluation reports submitted to NSF)

Other Research

1980-1982 Evaluation of Title IV-C project, PROJECT PLUS, Los Angeles, Unified School District (three years)
1977-1979 Evaluation of Title IV-C project, SELF-RENEWAL IN THE SCHOOL: DEVELOPING A NUTURING AND SUPPORTIVE CLIMATE FOR PLANNED CHANGE, Los Angeles Unified School District (three years)
Evaluation of ACME Mathematics Project, Title IV-C project in Los Angeles Unified School District (three years)

1979 Evaluation of Demonstration Program in Mathematics: PACOIMA JUNIOR HIGH SCHOOL MATHEMATICS CENTER, Los Angeles Unified School District (1 year)
 1987. Conducted research to examine the environments and practices of institutions of higher education relative to computer software development. (ECUCOM/CSU \$7000.00)
 1985 & 1983 Conducted evaluation of Coordinated Undergraduate Dietetic Program for Department of Family Studies, CSLA.

8. Papers, Lectures, Presentations

- Keane, Dorothy (2002). NCTM Illumination Site: an Overview. National Council of Supervisors of Mathematics National Conference, Las Vegas
- Keane, Dorothy (2001). Using Illumination to Teach Geometric Concepts. California Mathematics Council, Northern Section, Asilomar
- Keane, Dorothy (2001). Illuminating the NCTM Standards. California Mathematics Council, Southern Section, Palm Springs
- Keane, Dorothy L. (1999). Advanced Technologies in Mathematics Teaching: A Mini-Conference. National Council of Teachers of Mathematics, San Francisco
- Keane, Dorothy L. (1999). Using the World Wide Web for Staff Development in Mathematics. National Council of Supervisors of Mathematics, San Francisco, CA.
- Keane, Dorothy L. (1998). Developing Number Sense in Grades K-2. California Mathematics Council, Southern Section, Annual Conference, Palm Springs, CA.
- Keane, Dorothy L. (1998). Using the World Wide Web for Staff Development. National Council of Supervisors of Mathematics National Conference, Washington, D.C.
- Keane, Dorothy L. (1998). Developing Number Sense in Young Children. Los Angeles Teachers of Mathematics Annual Conference, Los Angeles.
- Keane, Dorothy L. (1997). Pre-Number Experiences for Young Children. Early Childhood Conference of Japan: Osaka, Japan.
- Keane, Dorothy L. (1997). Many Views of Fractions. Los Angeles Teachers of Mathematics Annual Conference, Los Angeles.
- Keane, Dorothy L. & Janet Fisher-Hoult. (1996) A Model for Faculty Development Used in the CSU. American Association of Higher Education Conference. San Diego.
- Hart, Patricia, Marshelle Thobaben & Dorothy L. Keane. (1996). Faculty Development in Using Technology to Enhance Teaching and Learning: A System-wide Project of the California State University, American Association of Higher Education Conference, Atlanta, Georgia
- Keane, Dorothy L. (1996). Using Hyperstudio in Mathematics Instruction, National Council of Supervisors of Mathematics Annual conference, San Diego, California
- Keane, Dorothy L. (1995). Systemwide Planning and Models of Collaboration. Institute for Leadership, Development in Distance Education, Center for International Nursing Ed. CSUDH.
- Keane, Dorothy L. (1995). Problem Solving - More Than Meets the Eye. Annual Conference, National Council of Supervisors of Mathematics, Boston, Massachusetts
- Keane, Dorothy L. (1990) Teaching Estimation Strategies with Hypermedia. The 1990 CSME Conference on Mathematics, Science and Computer Education, California State Polytechnic University.
- Keane, Dorothy L. (1990) Using Hypermedia in the Language Arts Curriculum. The Whole Language Conference, California State University, Los Angeles.
- Keane, Dorothy L. (1989) Hypercard Applications in Mathematics and Science" (with R.L. Carpenter), Hands On Technology Conference, Los Angeles.
- Keane, Dorothy L. & Carpenter, R. L. (1989) Hypercard Applications for K through University", (Greater San Diego Mathematics Conference
- Keane, Dorothy L. (1989) An Approach to Teaching Place Value That Works. National Council of Teachers of Mathematics Annual Conference, Orlando, Florida.
- Keane, Dorothy L. (1989) Overview of Hypercard Applications. Computer Using Educators Southern California Conference, Orange County..
- Keane, Dorothy L. (1988) Co-trainer in two CSU faculty workshops at the Summer Teacher/Scholar Institute on "Hypercard Applications for Higher Education."
- Keane, Dorothy L. (1989) Integrating Technology Into Mathematics Instruction", CSU Education Faculty Conference given at CSULA.
- Keane, Dorothy L. (1989) Hypercard Applications for Science Instruction:", CSU Education Faculty Conference given at San Jose..
- Keane, Dorothy L. (1988) Hypercard Applications K-University. Computer Using Educators Northern Conference, San Jose.

Keane, Dorothy L. (1988) Using Calculators and Computers to Develop Problem Solving Skills. Annual San Diego Mathematics Council Conference, San Diego

Keane, Dorothy L. (1988) Early Mathematics Experiences for Young Children. Downey Unified School District.

Keane, Dorothy L. (1988) Using Concrete Models to Teach Rational Numbers in Middle Schools. Bassett Unified School District.

Keane, Dorothy L. (1987) Problem Solving and Learning Modalities", 28th Annual Conference of California Mathematics Council, Long Beach

Keane, Dorothy L. (1987) A Problem Is A Problem Is A Problem... Los Angeles City Teachers Mathematics Association 10th Annual Conference, Loyola Marymount.

Keane, Dorothy L. (1987) Introducing CAI in Mathematics Methods Courses", Technology in Teacher Education Conference, Cal. State San Bernardino.

Keane, Dorothy L. (1987) In-service on Advanced LOGO Programming, Brightwood School, Alhambra.

Keane, Dorothy L. (1986) Problem Solving Across the Grades. Los Angeles County Teacher Training Workshop.

Keane, Dorothy L. (1986) Inservice on LOGO PROGRAMMING IN GRADES K to 8, for all teachers at Brightwood School, Alhambra.

Keane, Dorothy L. (1986) How Should Measurement be Taught in the Elementary School? Keynote address, Elementary Summer Technology Training Institute (ESTTI), Cal State San Bernardino

Keane, Dorothy L. (1986) Teaching Geometry with LOGO. West Coast LOGO Conference, Los Angeles.

Keane, Dorothy L. (1986) Off-Computer LOGO Activities. Computer Using Educators Southern Conference, held at CSULA.

Keane, Dorothy L. (1986) Old Ways Don't Add Up. keynote address at Los Angeles County Math Conference, Hollywood.

Keane, Dorothy L. (1986) Using Computers to Teach Mathematics Mathematics Framework Conference, State Department of Education, Long Beach.

Keane, Dorothy L. (1985) The California Mathematics Framework - What's New? Orange Unified School District Curriculum Committee.

Keane, Dorothy L. (1985) The Mathematics Framework and You. ABC School District Curriculum Committee.

Keane, Dorothy L. (1985) Concrete Models for Teaching Mathematics. Walnut School District

Keane, Dorothy L. (1985) Problem Solving and the Mathematics Framework. Alameda County Schools.

Keane, Dorothy L. (1985) Teaching Geometry with LOGO. Los Angeles County LOGO Conference, Universal City.

Keane, Dorothy L. (1984) List Processing in LOGO. mini-course given at 4th Annual Microcomputer and Mathematics Education Conference, UCLA.

Keane, Dorothy L. (1984) Introduction to LOGO. California Mathematics Council Annual Southern Conference, Long Beach Convention Center.

Keane, Dorothy L. (1984) Three-day course on LOGO PROGRAMMING for private school teachers in Rancho Palos Verdes sponsored by State Department of Education.

Keane, Dorothy L. (1984) Problem Solving With LOGO. Computer Using Educators Annual Conference, Pasadena.

Keane, Dorothy L. (1983) Problem Solving for Gifted Students. National Council of Teachers of Mathematics Annual Conference, Detroit.

Keane, Dorothy L. (1982) Teaching Problem Solving in Junior High Schools. National Council of Teachers of Mathematics Annual Conference, Toronto.

Keane, Dorothy L. (1982) Models for Teaching the Basics in Mathematics. National Council of Teachers of Mathematics Regional Conference, Long Beach.

Keane, Dorothy L. (1980) Problem Solving in Mathematics. California Mathematics Council, Annual Southern Conference, Anaheim.

Keane, Dorothy L. (1979) A Problem Is A Problem Is A... California Mathematics Council, Annual Southern Conference, Anaheim.

Keane, Dorothy L. (1978) What Can We Do Before Teaching Number? National Council of Teachers of Mathematics Regional Conference, San Diego.

Keane, Dorothy L. (1976) Consumer Mathematics at the Elementary Level. National Council of Teachers of Mathematics Annual Conference, El Paso, Texas

Keane, Dorothy L. (1975) I Do and I Understand. California Mathematics Council, Southern Section Annual Conference, Anaheim.

9. Educational Consultant

I have served as a consultant to several school districts and projects. Among them:
Los Angeles Mathematics Initiative (Achievement Council)
Los Angeles Unified School District
Alhambra Unified School District
La Puente School District
El Monte School District
La Canada School District

10. Courses Taught During Tenure at CSLA

Edel 401 (417) Seminar in Teaching Mathematics in Elementary Schools
Edel 431 Teaching Mathematics in Middle Schools
Edel 531 Seminar: Research in Teaching Mathematics (developed web-based course)
Edel 583 Using Hypermedia in Instruction (developed course)
Edel 580 Computer Applications in Mathematics and Science (developed course)
Edel 433A Special Topics in Mathematics: Metric Measurement (developed course)
Edel 433B Special Topics in Mathematics: Problem Solving (developed course)
Edel 433C Special Topics in Mathematics: Geometry (developed course)
Edel 433D Special topics in Mathematics: Logic (developed course)
Edel 480 Teaching Problem Solving with Logo (developed course)
Edel 435 Use of Calculators in Teaching Mathematics (developed course)
Edel 432 Teaching Mathematics in Early Childhood

11. Committee Service for CSLA

Department and School Committees:

School Assembly: 9 years (1 years as Chairperson)
School Instructional Affairs: 6 years
School Faculty Affairs: 3 years
School Fiscal Affairs: 8 years
School AIRC Committee: 4 year
Department Instructional Affairs: 9 years
Department Fiscal Affairs: 6 years
Department Selection Committee: 9 years (2 years as Chair)
Department ARPT Committee: 5 years (also 1 year alternate)

Administration:

Served as Acting Associate Dean for six quarters (responsible for Graduate Programs and Fiscal concerns of the School)

Associate Chair of Department of Elementary Education: 2 years
Acting Chair: 2 quarters

EVIDENCE OF SUPPORT OF OTHER CONTRIBUTIONS TO THE UNIVERSITY/COMMUNITY

A. _University Committees

Senator at Large, Academic Senate: 3 years
Senator, Academic Senate: 8 years
Educational Policy and Resource Committee (EPRC): 6 years
Served on PARA Committee (Proposition 9 "lay-off" committee)
Steady State Staffing Committee, ("lay-off" committee): 3 years
Course Moratorium Committee: 1 year
Credit for Prior Experiential Learning (CPEL): 3 years
Continuing Education Subcommittee: 3 years
Undergraduate Studies Subcommittee: 1 year
Selection Committee for Interim Dean for School of Education

Joint Budget Committee (one year as Chair): 2 years
Committee on Committees: 2 yrs
Space Management Committee: 4 years
Affirmative Action Faculty Development Committee: 1 quarter
Faculty Committee Reviewing Recommendations on Reorganization: 1 qtr.
University Computer Committee: 4 year
TECOM (Administrative computer committee: 2 years
FERAC (Administrative computer committee: 1 year)

Community Service

Evaluator for the Western Association of Schools & Colleges (WASC) 3 years
Served on Advisory Council for Southern California Edison Educational Services, 4 years
Served on Career Development Awards Selection Committee for Southern California Edison
Participated in evaluation of "Community Energy Conservation Project, Southern California Edison 1978.
Member of California Energy Education Forum (CEEF) 1980-1981.

B. Statewide Committees

Senator, CSU Academic Senate (6 years)
Teacher Education and K-12 Relations (TEKR) (5 years; Chair 2 years)
CSU Commission on Learning & Technology (4 years)
Presidents' Committee on Teacher Education
Entry Level Mathematics Extended Development Committee (2 years)
and many others...