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*Department of Mathematics Education*  
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## **Education**

AA (mathematics and science), Chaffey College, 1954  
AB (mathematics), University of California, Berkeley, 1956  
MA (education), University of California, Berkeley, 1960  
MS (mathematics), Stanford University, 1962  
PhD (mathematics education), Stanford University, 1967

## **Professional Experience**

Garfield Junior High School, Berkeley, CA, Mathematics and Science Teacher, 1957-1960  
Diablo Valley College, Concord, CA, Part-Time Instructor in Mathematics, 1959-1960  
Stanford University, Teaching Assistant in Mathematics, 1961-1963  
Secondary Education Project, Stanford University, Supervisor of Mathematics Interns, 1962-1963  
School Mathematics Study Group, Stanford University, Research Assistant, 1962-1967  
Teachers College, Columbia University, Assistant Professor of Mathematics, 1967-1970;  
Associate Professor of Mathematics, 1970-1975  
Secondary School Mathematics Curriculum Improvement Study, Teachers College, Research Associate, 1969-1975  
University of Cambridge, England, Visiting Lecturer in Education, 1973-1974  
University of Georgia, Professor of Mathematics Education, 1975-1993; Regents Professor of Mathematics Education, 1993-present  
Institut für Didaktik der Mathematik, Universität Bielefeld, Germany, Guest Professor, 1976  
College Board Educational Equality Summer Institutes, Santa Fe, NM, and Santa Cruz, CA, Faculty Member in Mathematics, 1985-1988  
Scuola Matematica Interuniversitaria, Perugia, Italy, Faculty Member, 1988  
Universitat Autònoma de Barcelona, Spain, Senior Lecturer in Education, 1989, 1991  
Equity 2000 Mathematics Summer Institute, Nashville, TN, Faculty Member, 1991  
Universidad de los Andes, Bogotá, Colombia, Guest Lecturer in Education, 1993  
Göteborgs Universitet, Gothenburg, Sweden, Guest Professor in Didactics of Mathematics, 1993-present

## **Membership in Professional Organizations**

American Educational Research Association  
Association of Teachers of Mathematics  
Georgia Council of Teachers of Mathematics  
International Group for the Psychology of Mathematics Education  
Mathematical Association of America  
National Society for the Study of Education  
National Council of Teachers of Mathematics  
National Council on Measurement in Education  
Special Interest Group for Research in Mathematics Education

### **Professional Service**

American Educational Research Association  
Special Interest Group for Research in Mathematics Education (Co-chair, 1972-1974)  
Review of Research Award Committee, 1998-2000 (Chair, 1999-2000)  
Division C Nominating Committee, 1998-2000  
Grants Program Governing Board, 2002-present

College Board  
Scholastic Aptitude Test Committee, 1977-1982 (Chair, 1980-1982)  
Mathematical Sciences Advisory Committee, 1978-1989 (Chair, 1986-1989)  
Council on Academic Affairs, 1986-1989 (Vice Chair, 1987-1989)  
Advisory Panel on Design of Assessment Services Relating to the Educational Equality Project (Chair), 1985  
Albridge Development Committee, 1987-1989  
Panel on New Possibilities for the SAT, 1988  
MAA/College Board Committee on Mutual Concerns, 1985-1989 (Co-chair, 1987-1989)  
Equity Agenda Mathematics Working Group (Chair), 1990-1991  
Equity 2000 National Mathematics Technical Assistance Committee, 1991-1997  
Pacesetter Mathematics Task Force, 1991-1998  
Committee on Quantitative Literacy at the Middle School Level, 1998-2000

Educational Testing Service  
Advisory Panel on Mathematics Assessment, 1991

International Commission on Mathematical Instruction  
Executive Committee, 1987-1998 (Vice President, 1991-1998)  
Evaluation Theme Group (Organizer), Third International Congress on Mathematical Education, 1974-1976  
International Program Committee, Fourth International Congress on Mathematical Education, 1978-1980 (Core Program Committee, 1979-1980; Publications Committee, 1980-1983)  
Theory, Research and Practice Working Group (Chief Organizer), Fifth International Congress on Mathematical Education, 1982-1984  
Practice of Teaching and Research in Didactics Theme Group (Chief Organizer), Sixth International Congress on Mathematical Education, 1986-1988  
International Program Committee, Seventh International Congress on Mathematical Education, 1987-1992 (Core Program Committee, 1990-1992)  
Methodologies in Research in Mathematics Education Theme Group (Advisory Team), Seventh International Congress on Mathematical Education, 1991-1992

- International Program Committee (Co-chair), ICMI Study on Research in Mathematics Education and Its Results, 1992-1996
- International Program Committee, Eighth International Congress on Mathematical Education, 1992-1996
- Core Committee to Select Section 14 Speakers for the 1998 International Congress of Mathematicians, 1996-1997
- Ad Hoc Committee on ICMI Awards (Chair), 2000-2002
- Selection Panel for Speakers on Mathematics Education and Popularization of Mathematics at the 2002 International Congress of Mathematicians, 2000-2001
- International Program Committee, Symposium for the Centennial of the International Commission on Mathematical Instruction.
- Mathematical Association of America
  - Board of Governors, 1985-1987; 2006-2009
  - Program Committee, 1978 Annual Meeting
  - Committee on the Teaching of Undergraduate Mathematics, Panel Exploring Research for Effective Contributions to Teaching, 1983-1986
  - MAA/NCTM Ad Hoc Committee on the Language of College Entrance Requirements (Chair), 1985-1987
  - Research in Undergraduate Mathematics Education Discussion Group, 1997-2000
  - Committee for the Annie and John Selden Prize for Research in Undergraduate Mathematics Education, 2006-2008
  - Committee on the Mathematical Education of Teachers (ex officio), 2006-2009
- National Council of Teachers of Mathematics
  - Publications Committee, 1972-1976 (Chair, 1974-1976)
  - Conference Board of the Mathematical Sciences Ad Hoc Committee on Mathematical World, 1975-1976
  - National Science Foundation Interpretative Statement Project, 1979-1980
  - Task Force for the Research Agenda Project, 1980-1981
  - Advisory Board, Research Agenda Project, 1985-1989
  - Standards Research Catalyst Project, 1990-1991
  - Standards Working Group for Assessment Standards for School Mathematics (Chair), 1993-1995
  - Commission on the Future of the Standards, 1996-2000
  - Headquarters Review Team, 1997
- National Academy of Education
  - Focus Group on Learning and Instruction in School Subject Matter, 1989
- National Assessment of Educational Progress
  - Advisory Panel, 1977-78 Mathematics Assessment, 1975-1980
  - Consultant on mathematics exercises, 1972, 1974, 1975-1982
  - Consultant on higher order skills exercises, 1985
  - Mathematics Item Development Panel, 1988
  - Mathematics Assessment Framework Planning Committee, 2000-2004
- National Board for Professional Teaching Standards
  - Middle Childhood and Early Adolescence Mathematics Committee, 1992-2000
- National Council on Education Standards and Testing
  - Mathematics Task Force, 1991
- National Research Council
  - Mathematical Sciences Education Board, 1985-1986, 2004-present (Charter member; Chair, Committee on the Profession of Teaching, 1985-1986; Task Force on

Assessment, 1986; Consultant, Committee on Student Assessment, 1987;  
Chair, New Approaches to Assessment Study Committee, 1990-1993)  
United States Commission on Mathematical Instruction, Ex-officio member, 1992-  
1998  
Board on Testing and Assessment, Consultant on Voluntary National Mathematics  
Tests, 1997  
Mathematics Learning Study (Chair), 1998-2001  
Mathematics Learning Study Subcommittee on the Popular Report (Chair), 2000-2002  
Board on International Comparative Studies in Education, 2000-2003  
National Science Foundation  
External Peer Oversight Committee for Research in Teaching and Learning (Chair),  
1985-1986  
Advisory Panel on NSF Centers of Excellence in Teacher Preparation, 1991  
Expert Panel to Review the Mathematics Portfolio of NSF's Directorate for Education  
and Human Resources, 2003-2004  
Office of Education Research and Innovation  
OERI/RAND Mathematics Study Group, 2000-2003  
Organisation for Economic Cooperation and Development  
U.S. Representative, Mathematics Expert Group for PISA 2003, Programme for  
International Student Assessment, 2001-present

### **Research and Evaluation Activities**

Research Staff and Report Writing Team, National Longitudinal Study of Mathematical  
Abilities, 1963-1972  
Consultant to National Evaluation Committee of the Wisconsin Research and Development  
Center for Cognitive Learning, 1974  
Principal Investigator, Problem Solving Project, Georgia Center for the Study of Learning and  
Teaching Mathematics, 1974-1977  
Project Director, An Analysis of Research on Mathematical Abilities (National Science  
Foundation RISE Project SED 77-17946), 1977-1980  
Advisory Panel, COSMOS Science and Mathematics Education Project, 1985-1988  
Mathematics Program Advisory Committee, Atlanta Public Schools, 1985-1986  
Consultant to Mathematics and Science Department, North Carolina School of Science and  
Mathematics, 1985-1987  
Member of Mathematics Education Working Group, Opportunities for NSF Strategic  
Investment in K-12 Science Education, SRI International, 1986-1987  
Soviet Math Education Panel, Georgia State University, 1986  
Advisory Board, Study on Small-Group Methods in Teaching Mathematics, University of  
Missouri, 1986-1987  
Evaluation Advisory Panel Chair, Mathematics Consortium for Applications and Problem  
Solving Project, East Tennessee State University, 1986-1987  
Evaluation Board Chair, Project for K-6 Supplementary Mathematics Materials for a  
Technological Society, University of Arizona, 1986-1990  
Advisory Board, National Center for Research on Teacher Education, Michigan State  
University, 1986-1989  
Mathematics Expert Panel Co-chair, Teacher Assessment Project, Stanford University, 1986-  
1988

Reviewer, *Curriculum and Evaluation Standards for School Mathematics*, National Council of Teachers of Mathematics, 1988

Advisory Board, National Center for Research in Mathematical Sciences Education, University of Wisconsin-Madison, 1988-1995 (Chair, 1988-1990)

Task Force on Assessment, Project on Quantitative Understanding: Amplifying Student Achievement and Reasoning University of Pittsburgh, 1989-present

Bacomet Project 3, Technology and Mathematics Education, 1989-1992

Project on Science, Mathematics and Technology Education in OECD Countries, Organisation for Economic Co-operation and Development, Paris, 1989; Advisory Board, OECD Case Studies, 1991-1992

Consultant to Mathematics Assessment Advisory Committee, California State Department of Education, 1990

Advisory Board, Investigations Project, University of California, 1991-1993

U.S. Steering Committee, Third International Mathematics and Science Study, 1991-1998

Reviewer, *Mathematics Education in the Federal Republic of Germany* [Special issue of the *Zentralblatt für Didaktik der Mathematik*, 24(7), 1992], 1991-1992

Subject Matter Advisory Committee, Third International Mathematics and Science Study, 1992-1994

Steering Committee, International Cabri-géomètre Group, 1992-present

Advisory Board, Core-Plus Mathematics Project, 1992-2001

Co-Director, Bacomet Project 4, Meaning and Communication in Mathematics Education, 1993-1996

Project Director, Project on the Foundations for School Mathematics (National Science Foundation Grant ESI 9727890), 1997-2000

Researcher, Mathematics Case Studies of U.S. Innovations in Science and Technology Education, 1993-1996

Steering Committee, Research Project for the International Mathematical Olympiad 2001, 1999-present

Technical Review Panel, Third International Mathematics and Science Study—Repeat, 1999-present (Member of Improving Practices Subcommittee, 1999-present; Mathematics Expert Review Panel, 2000)

Chair, Plenary Panel on Methods and Results of Research in Mathematics Education Today and Tomorrow, MADIF-2, January 2000, Gothenburg, Sweden

Math Review Panel, Center for the Improvement of Teacher Education and Schooling, Brigham Young University, June 2000

Trends in Mathematics and Science Study 2003 Expert Panel, 2000-present

Co-Principal Investigator, Center for Proficiency in Mathematics Teaching (National Science Foundation Grant ESI 0227586), 2002-2007

Review Team, Department of Mathematics Education, Brigham Young University, 2003.

### Recent Presentations

- (2002, January). *The mathematical component of the Ph.D. in mathematics education*. In R. E. Reys (Chair), *Mathematical preparation of doctorates in mathematics education*. Symposium at the annual meeting of the Mathematical Association of America, San Diego.
- (2002, February). *Helping all children become proficient in mathematics*. Public lecture in the Association of Mathematics Educators/Singapore Mathematical Society Distinguished Visitor Programme, National University of Singapore, Singapore.

- (2002, February). *Mathematical tasks that develop proficiency*. Workshop for teachers in the Association of Mathematics Educators/Singapore Mathematical Society Distinguished Visitor Programme, National University of Singapore, Singapore.
- (2002, February). *Using research to improve school mathematics*. Seminar in the Department of Mathematics, National University of Singapore, Singapore.
- (2002, February). *Criteria for research in mathematics education*. Seminar for staff and students of the National Institute of Education and officers of the Ministry of Education, Nanyang Technological University, Singapore.
- (2002, February). *Adding it up*. Invited presentation in the 2001-2002 University of New Hampshire Lecture Series in Mathematics and Science Education, Durham.
- (2002, February). *Where's the evidence?* Invited presentation to the faculty of the Department of Mathematics, University of New Hampshire, Durham.
- (2002, March). *Synthesizing research on children's learning of mathematics*. Plenary address at the meeting of the Washington Educational Research Association, Seattle.
- (2002, March). *Keynote follow-up*. Special session at the meeting of the Washington Educational Research Association, Seattle.
- (2002, November). *Why schools matter*. Invited paper presented at the 43rd Annual Fall Conference of the California Mathematics Council South, Palm Springs, CA.
- (2002, November). *A critique of impure unreason*. Invited paper presented at the 43rd Annual Fall Conference of the California Mathematics Council South, Palm Springs, CA.
- (2003, January). *The proficiency construct*. In B. Findell (Chair), *Adding it up: Implications for the mathematical education of teachers*. Symposium at the Seventh Annual Conference of the Association of Mathematics Teacher Educators, Atlanta.
- (2003, February). *Doctoral programs and research in mathematics education: Issues, roles, and criteria*. Presented at Mathematics Education and Mathematics in the 21st Century, Tucson, Arizona.
- (2003, March). *Developing primary teachers' knowledge of mathematics in and for teaching*. Invited paper presented at Continuing Professional Development in Mathematics, Royal Society, London, England.
- (2003, March). *Center for Proficiency in Teaching Mathematics (CPTM)*. Paper presented at the Joint NSF\_FRG Conference on Science and Mathematics, Kiel, Germany.
- (2003, April). *Looking at mathematics lessons in four countries*. Paper presented at the meeting of the American Educational Research Association, Chicago.
- (2003, May). *Promoting the proficiency of U.S. mathematics teachers through Centers for Learning and Teaching*. Invited paper presented at the International Symposium on Mathematics Teacher Education, Malmö, Sweden.
- (2003, May). *Synthesizing research on learning mathematics*. Invited paper presented at the Nordic Preconference to ICME\_10, Växjö, Sweden.
- (2003, May). *Adding it up: Helping children learn mathematics*. Invited paper presented at the Networking Project for the Improvement of Mathematics Education, Green Lake, Wisconsin.
- (2003, May). *The assessment principle*. Invited paper presented at the Wisconsin Mathematics Council meeting, Green Lake, Wisconsin.
- (2003, July). *Some thoughts on data analysis and related matters*. Invited paper presented at the NSF\_NRF Research School, Midrand, South Africa.
- (2003, December). *Helping all children become proficient in mathematics*. Invited paper presented at Workshop on Mathematics Education, Bangkok, Thailand.
- (2003, December). *Promoting mathematical proficiency*. Paper presented at Workshop on Mathematics Education, Bangkok, Thailand.

- (2003, December). *Problem-solving heuristics*. Invited paper presented at Workshop on Mathematics Education, Bangkok, Thailand.
- (2003, December). *Assessing mathematical proficiency*. Invited paper presented at Workshop on Mathematics Education, Bangkok, Thailand.
- (2003, December). *Proficiency in teaching mathematics*. Invited paper presented at Workshop on Mathematics Education, Bangkok, Thailand.
- (2004, January). *Ranking doctoral programs in mathematics education: A worthwhile or worthless enterprise*. Paper presented at the Association of Mathematics Teacher Educators' Eighth Annual Conference, San Diego.
- (2004, April). *Lesson events: A discussion*. Paper presented at the meeting of the American Educational Research Association, San Diego.
- (2004, April). *What you see is what you get? What video can and cannot capture*. Paper presented at the meeting of the American Educational Research Association, San Diego.
- (2004, April). *Mining large NCES and NSF data sets for policy implications: The AERA Grants Program*. Presented at the meeting of the American Educational Research Association, San Diego.
- (2004, June). *Helping all children become proficient in mathematics*. Invited address at the Office of Superintendent of Public Instruction 2004 Summer Institute, Spokane, WA.
- (2004, June). *Helping children in grades K\_6 learn mathematics*. Invited address at the Office of Superintendent of Public Instruction 2004 Summer Institute, Spokane, WA.
- (2004, June). *Helping children in grades 7\_12 learn mathematics*. Invited address at the Office of Superintendent of Public Instruction 2004 Summer Institute, Spokane, WA.
- (2004, June). *What is, or might be, scientific research in education?* Invited address at the Mid-Atlantic Center for Mathematics Teaching and Learning annual conference, University Park, PA.
- (2004, July). *Methods as ideologies: Is our research scientific or political?* Invited address at the 10th International Congress on Mathematics Education, Copenhagen.
- (2004, July). *Contrasting comparative research on teaching and learning in mathematics*. Paper presented at the 28th International Conference of the International Group for the Psychology of Mathematics Education, Bergen, Norway.
- (2004, August). *Helping children in grades K\_6 learn mathematics*. Invited address at the Office of Superintendent of Public Instruction 2004 Summer Institute, Yakima, WA.
- (2004, August). *Helping students in grades 7\_12 learn mathematics*. Invited address at the Office of Superintendent of Public Instruction 2004 Summer Institute, Yakima, WA.
- (2004, August). *Helping children in grades K\_6 learn mathematics*. Invited address at the Office of Superintendent of Public Instruction 2004 Summer Institute, Bellevue, WA.
- (2004, August). *Helping children in grades 7\_12 learn mathematics*. Invited address at the Office of Superintendent of Public Instruction 2004 Summer Institute, Bellevue, WA.
- (2004, September). *Helping ALL children learn mathematics*. Invited address at the 2004 Annual Conference, Colorado Council of Teachers of Mathematics, Denver.
- (2004, November). *Helping children learn mathematics*. Invited address at the after-school mathematics workshop for teachers, Social Circle, GA.
- (2004, November). *Adding it up: Helping children learn mathematics*. Invited address at a meeting of the National Research Council Science Learning Study Committee, Washington, DC.
- (2004, December) *How're we doing? Evaluating proficiency in mathematics, in teaching mathematics, and in teaching mathematics teacher developers*. Invited colloquium presentation, Michigan State University, East Lansing, MI.

- (2005, January). *Improving the mathematics education of teachers*. Paper presented at the Joint Mathematics Meetings, Atlanta, GA.
- (2005, January). *Mathematical proficiency for all students: The RAND report*. Paper presented at the Statistics in Mathematics Education Research workshop, American Statistical Association, Alexandria, VA.
- (2005, May). *Some thoughts on the mathematical knowledge for teaching (K-8)*. Paper presented at the Mathematical Sciences Research Institute workshop, Asilomar, CA.
- (2005, July). *A critique of impure unreason*. Invited plenary address at Mathematics Education: Paths and Crossroads: International Meeting in Honour of Paulo Abrantes, Lisbon, Portugal.
- (2005, August). *The many faces of the school mathematics curriculum*. Invited plenary address at the Third East Asian Regional Conference on Mathematics Education of the International Commission on Mathematical Instruction, Shanghai, China.
- (2005, October). *Mathematics education research as a construction tool*. Invited plenary address at the First Math Leadership Thought Symposium, Skywalker Ranch, Marin County, CA.
- (2005, November). *Finding a balance in methods of teaching mathematics*. Invited address at the meeting of the California Advisory Board, Beverly Hills, CA.

## Editorial Activities

- Advisory Board, Survey of Recent East European Mathematical Literature, 1970-1975
- Advisory Committee, *Zentralblatt für Didaktik der Mathematik*, 1970-present
- Contributing Editor, *Journal of Mathematical Behavior*, 1974-present
- Editorial Board, *Research in Mathematics Education* (NCTM Professional Reference Series), 1976-1980
- Editorial Panel, *1980 NCTM Yearbook on Problem Solving in School Mathematics*, 1977-1980
- Editorial Board, *Educational Studies in Mathematics*, 1979-1989
- Editorial Advisory Board, *Teaching Thinking and Problem Solving*, 1979-1998
- Advisory Board, *For the Learning of Mathematics*, 1980-present
- Editorial Board, *Mathematics Education Library*, 1980-2000
- Editorial Board, *Cognition and Instruction*, 1981-present
- Advisory Board, *Educatio Mathematica*, 1985-present
- Advisory Board, *The Mathematics Educator*, 1994-1998
- Advisory Board, *Uno: Revista de Didáctica de las Matemática*, 1994-present
- Advisory Council, *Quadrante: Revista Teórica e de Investigação*, 1994-present
- Comité de Redaction, *Recherches en Didactique des Mathématiques*, 1994-present
- Editorial Board, *International Journal of Science and Mathematics Education*, 2002-present
- Editorial Board, *Handbook of Research on Mathematics Teaching and Learning*, 1986-1992
- Editorial Committee Chairman, *Soviet Studies in Mathematics Education*, 1988-1992
- Editorial Board, *Curricular and Policy Issues in Mathematics Education*, 1992-present
- Editorial Board, *International Journal for the History of Mathematics Teaching*, 2005-present
- Editorial Board, *American Educational Research Journal*, Section on Social and Institutional Analysis, 2002-2005
- Editor (with Izaak Wirszup). (1969-1972). *Soviet studies in the psychology of learning and teaching mathematics* (Vols. 1-6). Stanford, CA: School Mathematics Study Group.
- Editor (with Izaak Wirszup, Edward G. Begle, & James W. Wilson). (1972-1975). *Soviet studies in the psychology of learning and teaching mathematics* (Vols. 7-14). Stanford, CA: School Mathematics Study Group.

- Editor (with Izaak Wirszup). Krutetskii, V. A. (1976). *The psychology of mathematical abilities in schoolchildren*. Chicago: University of Chicago Press.
- Editor (with James W. Wilson). Begle, E. G. (1979). *Critical variables in mathematics education: Findings from a survey of the empirical literature*. Washington, DC: Mathematical Association of America & National Council of Teachers of Mathematics.
- Editor, *Journal for Research in Mathematics Education*, 1982-1988; editor of the Research Commentary section, 2004-present.
- Editor (with Marilyn Zweng Thomas Green, Henry Pollak, & Marilyn Suydam). (1983). *Proceedings of the Fourth International Congress on Mathematical Education*. Boston: Birkhäuser.
- Editor (with Alan Bell & Brian Low). (1985). *Theory, research and practice in mathematical education*. Nottingham, U.K.: University of Nottingham, Shell Centre for Mathematical Education.
- Editor (with Pearla Nesher). (1990). *Mathematics and cognition: A research synthesis by the International Group for the Psychology of Mathematics Education*. Cambridge, U.K.: Cambridge University Press.
- Editor. Davydov, V. V. (1990). *Types of generalization in instruction: Logical and psychological problems in the structuring of school curricula* (Soviet Studies in Mathematics Education, Vol. 2). Reston, VA: National Council of Teachers of Mathematics.
- Editor. Dubrovina, I. V., & Shapiro, S. I. (1992). *Problems in the psychology of abilities: A collection of articles* (Soviet Studies in Mathematics Education, Vol. 8). Chicago: University of Chicago School Mathematics Project.
- Editor (with Alan Bishop, Ken Clements, Christine Keitel, & Colette Laborde). (1996). *International handbook of mathematics education*. Dordrecht, Netherlands: Kluwer. [36 chapters in all; J. Kilpatrick edited 13 chapters in section on curriculum.]
- Editor (with Lee Peng Yee & Mogens Niss). *Series on Mathematical Education*. Singapore: World Scientific Publishing.
- Editor (with Alan Bishop, Ken Clements, Christine Keitel, & Frederick Leung). (2003). *International handbook of mathematics education* (2nd ed.). Dordrecht, Netherlands: Kluwer. [24 chapters in all; J. Kilpatrick edited 7 chapters in section on research.]
- Editor (with Anna Sierpinska). (1998). *Mathematics education as a research domain: A search for identity* (New ICMI Study Series, Vol. 4, Books 1 & 2). Dordrecht, Netherlands: Kluwer.
- Editor (with Robert E. Reys). (2001). *One field, many paths: U.S. doctoral programs in mathematics education*. Washington, DC: Conference Board of the Mathematical Sciences.
- Editor (with Jane Swafford & Brad Findell). (2001). *Adding it up: Helping children learn mathematics*. Washington, DC: National Academy Press.
- Editor (with Jane Swafford). (2002). *Helping children learn mathematics*. Washington, DC: National Academy Press.
- Editor (with George M. A. Stanic). (2003). *A history of school mathematics*. Reston, VA: National Council of Teachers of Mathematics.
- Editor (with W. Gary Martin & Deborah E. Schifter). (2003). *A research companion to principles and standards for school mathematics*. Reston, VA: National Council of Teachers of Mathematics.
- Editor (with Celia Hoyles & Ole Skovsmose). (2005). *Meaning in mathematics education*. Dordrecht, Netherlands: Kluwer.

## Recent Publications

- Kilpatrick, J. (2002, December). U.S. centers for learning and teaching. *Medlemsblad: Newsletter of the Svensk Förening för MatematikDidaktisk Forskning*, No. 6, pp. 28-34.
- Kilpatrick, J. (2003). Twenty years of French didactic viewed from the United States. *For the Learning of Mathematics*, 23(2), 23-27.
- Kilpatrick, J. (2003). Scientific solidarity today and tomorrow. In D. Coray, F. Furinghetti, H. Gispert, B. Hodgson, & G. Schubring (Eds.), *One hundred years of L'Enseignement Mathématique: Moments of mathematics education in the twentieth century* (pp. 317-330). *Monographie No. 39 de L'Enseignement Mathématique*.
- Kilpatrick, J. (2003). What works? In S. L. Senk & D. R. Thompson (Eds.), *Standards-based school mathematics curricula: What are they? What do students learn?* (pp. 471-488). Mahwah, NJ: Erlbaum.
- Kilpatrick, J. (moderator). (2004). A foregone reaction: Panel discussion. In R. Strässer, G. Brandell, B. Grevholm, & O. Helenius (Eds.), *Educating for the future: Proceedings of an International Symposium on Mathematics Teacher Education* (pp. 77-102). Stockholm: Royal Swedish Academy of Sciences.
- Kilpatrick, J. (2004). Centers for Learning and Teaching. In R. Strässer, G. Brandell, B. Grevholm, & O. Helenius (Eds.), *Educating for the future: Proceedings of an International Symposium on Mathematics Teacher Education* (pp. 143-157). Stockholm: Royal Swedish Academy of Sciences.
- Kilpatrick, J. (2004). Curriculum update: Math education time capsule. *District Administration: The Magazine for K-12 Leaders*, 40(6), 62.
- Kilpatrick, J. (2004). Review of the book *California dreaming: Reforming mathematics education*. *American Journal of Education*, 110, 209-212.
- Kilpatrick, J. (2004). Synthesizing research on learning mathematics. In A. Tengstrand (Ed.), *Proceedings of the Nordic Pre-conference to ICME 10 at Växjö University, Sweden, May 9-11 2003* (pp. 1-11). Växjö: Växjö University.
- Kilpatrick, J. (in press). Mathematics education. In G. McCulloch (Ed.), *International Encyclopedia of Education*. London: Routledge.
- Kilpatrick, J., & Lindquist, M. M. (2004, December 7). U.S. mathematics teachers respond to the results of the 2003 Program for International Student Assessment (PISA). *NCTM: News and Media* [on\_line]. Available: <http://www.nctm.org/news/releases/pisa.htm>
- Kilpatrick, J., & Lindquist, M. M. (2004, December 14). U.S. mathematics teachers respond to the results of the 2003 Trends in Mathematics and Science Study (TIMSS). *NCTM: News and Media* [on\_line]. Available: [http://www.nctm.org/news/releases/timss\\_eighth\\_grade.htm](http://www.nctm.org/news/releases/timss_eighth_grade.htm).
- Kilpatrick, J., & Lingefjärd, T. (2002, Fall; 2003, Winter, Spring). Cross-country mathematics (Parts 1-3). *Reflections* (Journal of the Georgia Council of Teachers of Mathematics), 48(3), 8-9, 20; 49(1), 20-21; 49(2), 20-21.
- Association of Mathematics Teacher Educators Task Force. (2003). *Principles to guide the design and implementation of doctoral programs in mathematics education*. San Diego, CA: AMTE.
- Bybee, R. W., Kilpatrick, J., Lindquist, M., & Powell, J. C. (2005, Winter). PISA 2003: An introduction. *The Natural Selection: The Journal of BSCS*, pp. 4-7.
- Bybee, R. W., Kilpatrick, J., Lindquist, M., & Powell, J. C. (2005, Winter). TIMSS 2003: An introduction. *The Natural Selection: The Journal of BSCS*, pp. 8-10.

- Keitel, C., & Kilpatrick, J. (2005). Mathematics education and common sense. In J. Kilpatrick, C. Hoyles, & O. Skovsmose (Eds.), *Meaning in mathematics education* (pp. 105-128). Dordrecht, The Netherlands: Kluwer.
- National Research Council. (2002). *Understanding others, educating ourselves: Getting more from international comparative studies in education* (Report of the Committee on a Framework and Long-term Research Agenda for International Comparative Studies in Education). Washington, DC: National Academies Press.
- RAND Mathematics Study Panel. (2002). *Mathematical proficiency for all students: Toward a strategic research and development program in mathematics education* (MR-1643.0-OERI). Arlington, VA: RAND.
- Schneider, B., Carnoy, M., Kilpatrick, J., Raudenbush, S., Schmidt, W., Shavelson, R., & Suter, L. (2005). *Estimating causal effects in experiments and secondary analyses of large-scale datasets in education: A think tank white paper*. Washington, DC: American Educational Research Association.

### Other Publications

- Kilpatrick, J. (1964). Cognitive theory and the SMSG program. *Journal of Research in Science Teaching*, 2, 247-251.
- Kilpatrick, J. (1969). Problem solving in mathematics. *Review of Educational Research*, 39, 523-534.
- Kilpatrick, J. (1971). Some implications of the International Study of Achievement in Mathematics for mathematics educators. *Journal for Research in Mathematics Education*, 2, 164-171.
- Kilpatrick, J. (1971). Individual differences that might influence the effectiveness of instruction in mathematics. In H. Bauersfeld, M. Otte, & H.-G. Steiner (Eds.), *Schriftenreihe des IDM* (Vol. 4, pp. 67-82). Bielefeld, Germany: Universität Bielefeld, Institut für Didaktik der Mathematik.
- Kilpatrick, J. (1978). Forschung auf dem Gebiet mathematischen Lehrens und Lernens [Research in the teaching and learning of mathematics]. In H.-G. Steiner (Ed.), *Wege der Forschung: No. 361. Didaktik der Mathematik* (pp. 268-292). Darmstadt, Germany: Wissenschaftliche Buchgesellschaft.
- Kilpatrick, J. (1978). Research on problem solving in mathematics. *School Science and Mathematics*, 78, 189-192.
- Kilpatrick, J. (1978). Theories of learning and their implications for teaching informatics and mathematics. In D. C. Johnson & J. D. Tinsley (Eds.), *Informatics and mathematics in secondary schools: Impacts and relationships* (pp. 93-99). Amsterdam: North-Holland.
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Other articles in *American Mathematical Monthly*, *Arithmetic Teacher*, *Historica Mathematica*, *International Encyclopedia of Education*, *International Review of Education*, *Investigations in Mathematics*, *Journal for Research in Mathematics Education*, *Mathematics Teacher*, *Mental Measurements Yearbook*, *New Trends in Mathematics Teaching*, *Problem Solving*, *SIAM News*, *Studies in Mathematics*, *Zentralblatt für Didaktik der Mathematik*

### **Awards, Honors, and Recognitions**

Phi Beta Kappa, Sigma Xi, Phi Delta Kappa  
General Electric Mathematics Fellow, Stanford, 1958  
NSF Fellow in Mathematics, Stanford, 1960-1961  
John M. Switzer Honors Scholar, Stanford, 1962-1963  
Thinker to Watch, National Education Association, September 1983  
John W. Wilson Memorial Award, Research Council for Diagnostic and Prescriptive Mathematics, March 1986  
Fulbright Distinguished Visitor, New Zealand Association for Research in Education, December 1987  
Distinguished Scholar, Center for Research in Mathematics and Science Education, San Diego State University, December 1988  
Fulbright Senior Lecturer, Autonomous University of Barcelona, Spain, April 1989  
Fulbright Senior Lecturer, University of the Andes, Colombia, March 1993  
Fulbright Research Scholar, Gothenburg University, Sweden, August-November 1993  
Regents Professorship, University of Georgia, 1993-present  
Doctor Honoris Causa, Gothenburg University, Sweden, October 1995  
Charter Member, University of Georgia Teaching Academy, 1999-present  
Distinguished Visitor for 2002, Singapore Mathematics Society and Singapore Association of Mathematics Educators, February 2002  
National Associate, National Academies of Science, 2002-present  
Lifetime Achievement Award for Distinguished Service to Mathematics Education, National Council of Teachers of Mathematics, April 2003  
*Who's Who in American Education*, *Who's Who in the South and Southwest*, *American Men and Women of Science*