

**James W. Wilson**

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NCTM Lifetime Achievement Award, 2001

**EDUCATION**

- Kansas State Teachers College, B.S., 1958, (Social Science and Science)
- Kansas State Teachers College, M.A., 1960, (Mathematics)
- Stanford University, M.S., 1964, (Mathematics)
- University of Notre Dame, M.S., 1965, (Mathematics)
- Stanford University, Ph.D., 1967, (Mathematics Education)

**EMPLOYMENT**

- Mathematics and biology instructor, Marion City Schools, Marion, Kansas, February, 1958 through June, 1960
- Mathematics instructor, Roosevelt Laboratory School (grades 7-12), Kansas State Teachers College, Emporia, Kansas, 1961-1962
- Flexible Scheduling Project and Secondary Education Project, Stanford University, 1962-1964
- School Mathematics Study Group, Stanford University, 1964-1966
- School Mathematics Study Group, Stanford University, Research Associate, 1966-1968. Project Coordinator, SMSG Research and Analysis Section.
- University of Georgia
  - Assistant Professor of Mathematics Education, 1968-1969.
  - Associate Professor of Mathematics Education, 1969-1979. (on leave to the National Science Foundation 1974-1975)
  - Professor of Mathematics Education, 1979-present.
  - Head of the Department of Mathematics Education, 1969-1993.
  - Acting Associate Dean for Research, College of Education, 1983-1984.
  - Acting Director, Learning and Performance Support Laboratory, 1992-1995.
- National Science Foundation. Program Manager, Materials and Instructional Development Section, Division of Pre-College Education in Science, 1974-1975.

**VISITING FACULTY MEMBER**

- Saint Michael's College, Winooski, VT, summer 1967
- University of Hawaii, Manoa, summer 1981
- University of Texas at San Antonio, summers 1982, 1984
- East Tennessee State University, Johnson City, summers 1986, 1988
- Southern Illinois University, Carbondale, summers 1987, 1988
- University of North Carolina at Charlotte, Spring 1988
- Shanghai Normal University, Shanghai, PRC, 1988

**SERVICE TO NCTM**

- Member of Editorial Board, *Journal for Research in Mathematics Education*, 1968-1974
- Chair, Research Advisory Subcommittee of the *Journal for Research in Mathematics Education*, 1970-1973
- Chair, NCTM ad hoc Committee on National Assessment, 1971-1974
- Project Director, NCTM Project on Interpretive Reports from the NAEP Mathematics Assessment, 1973-1976
- Committee Member in charge of Research Sections, NCTM Annual Meeting, 1974
- Editor, *Journal for Research in Mathematics Education*, 1976-1982
- Member, Board of Directors, National Council of Teachers of Mathematics, 1978-81 (Elected)
- Executive Committee, NCTM Board of Directors, 1978-1981
- NCTM Committee on Mathematics Curriculum for the 1980s, 1978-1980
- Elections Committee, National Council of Teachers of Mathematics, 1982-1985 (chair, 1984-1985)
- Chair, NCTM Task Force on Testing and Evaluation, 1986-1988
- Candidate for President-Elect, National Council of Teachers of Mathematics, 1990, 1992
- Chair, NCTM Task Force on the 25th Anniversary Year for the *Journal for Research in Mathematics Education*
- Member, NCTM Standards for Mathematics Assessment writing team. Co-chair of the Principles subgroup. 1993-1995

- Chair, NCTM Task Force on Technology, 1996-1997
- NCTM Committee on Interpretive Reports for TIMMS, 1998-2000

### **OTHER PROFESSIONAL ACTIVITIES**

- Member, SMSG Writing Team for Programmed Instruction, Algebra I, 1961-1962
- Member of SMSG Panel on Research, 1968-1971
- Chair, AERA Special Interest Group for Research in Mathematics Education, 1968-1970. Founder of this SIG group in 1968
- International Association for the Evaluation of Educational Achievement, Ad Hoc Committee on a Second Mathematics Survey, 1974
- Member, Finance Committee of the School Science on Mathematics Association, 1970-1976. Policy Committee 1979-1982
- Member of AERA Committee on Special Interest Groups, 1971-1972
- Member, Board of Directors, School Science and Mathematics Association, 1974-77 (Elected)
- Executive Committee, School Science on Mathematics Association Board of Directors, 1974-1977
- National Science Foundation, Science Education Advisory Committee, 1978-1981.
- Management Committee, *Journal of Educational Statistics*, 1979-1982
- Evaluation and Research Director, Clemson University Project on Hand Calculators, 1988-1991
- Investigator, Joint U.S. - Japan Study of Mathematical Problem Solving in Schools, (National Science Foundation Project), 1988-1990
- AERA Committee on Use of the Internet, 1998-2001.
- Associate Organizer, Topic Study Group on the Teaching and Learning of Geometry, International Congress on Mathematical Education, Tokyo, Japan, 2000.
- Appointed member, Mathematics Advisory Committee, Knowles Science Teaching Foundation, 2003-present

### **INVOLVEMENT IN GRADUATE EDUCATION**

- Graduate Coordinator, 1969-1993, 1998-2005
- Doctoral Major Professor -- approximately 50
- Doctoral Advisory Committees -- approximately 90

- Ed.S. Advisory Committees -- approximately 40
- M.Ed. Advisor -- regularly
- M.A. Advisor -- 5

### SELECTED PUBLICATIONS

- Wilson, J. W., Cahen, L. S., & Begle, E. G. (Eds.) (1968-1972). *NLSMA Reports (Nos. 1-33)*. Stanford, CA: School Mathematics Study Group.
- Wilson, J. W. (1968-1972). *NLSMA Reports (Nos. 7, 8, 16, 17, 18)*. Stanford, CA: School Mathematics Study Group.
- Carry, L. R., & Wilson, J. W. (Eds.) (1969). *Reviews of recent research in mathematics education. Studies in mathematics (Vol. XIX)*. Stanford, CA: School Mathematics Study Group.
- Wilson, J. W. (1971). Evaluation in secondary school mathematics. In B. S. Bloom, J. T. Hastings, & G. F. Madaus (Eds.), *Formative and summative evaluation of classroom learning*, (Chapter 19). New York: McGraw-Hill.
- Wilson, J. W. (1973). Do standardized tests measure the wrong things? *Mathematics Teacher* 66(4), 295, 367-370.
- Pikaart, L., & Wilson, J. W. (1972). The research literature. In W. C. Lowry (Ed.), *The slow learner in mathematics (Thirty-fifth yearbook of the National Council of Teachers of Mathematics)*, pp. 26-51). Reston, VA: NCTM.
- Martin, W. H., & Wilson, J. W. (1974). The status of national assessment in mathematics. *Arithmetic Teacher* 21(1), 49-53.
- Kilpatrick, J., Wirszup, I., Begle, E. G., & Wilson, J. W. (Eds.) (1975). *Soviet studies in the psychology of learning and teaching mathematics*. (Volumes 7 – 14) (Distributed by the National Council of Teachers of Mathematics.) Stanford, CA: School Mathematics Study Group.
- Wilson, J. W. (1980). One point of view: Aren't we doing something right? *Arithmetic Teacher* 27(7), 4-5.
- Wilson, J. W. (1981). Trends in secondary school mathematics. *Momentum* 12I(4), 20-22.
- Wilson, J. W. (1986). Classroom practice of problem solving in U.S. classrooms. In J. P. Becker & T. Miwa (Eds.), *Proceedings of the U.S.-Japan Seminar on Mathematical Problem Solving*, Honolulu.
- Buccino, A., & Wilson, J. W. (1987). Instructional processes in the teaching of mathematics. In I. Wirszup & R. Streit (Eds.), *Developments in school mathematics education around the world*. Reston, VA: National Council of Teachers of Mathematics.
- Wilson, J. W. (1987). Taking mathematics teaching seriously. In *Proceedings of the Sino-American Secondary Mathematics Education Seminar*. Kaohsiung, R.O.C.: National Kaohsiung Teachers'

College.

- Wilson, J. W. (1987) Some reflections on Agenda for Action. In *Proceedings of the Sino-American Secondary Mathematics Education Seminar*. Kaohsiung, R.O.C.: National Kaohsiung Teachers' College.
- Wilson, J. W. (1988). *Evaluation in secondary school mathematics*. (In Chinese). Shanghai: Educational Press. [Translation of Wilson (1971)]
- Wilson, J. W., & Kilpatrick, J. (1989). Theoretical issues in the development of calculator-based mathematics tests. In J. W. Kenelly (Ed.), *The use of calculators in the standardized testing of mathematics*. New York: College Entrance Examination Board.
- Becker, J. P., Silver, E. A., Kantowski, M. G., Travers, K. J., & Wilson, J. W. (1990). Some observation of mathematics teaching in Japanese elementary and junior high schools. *The Arithmetic Teacher*, 38(2), 12-21.
- Tirosh, D., Tirosh, D., Graeber, A., & Wilson, J. W. (1990). Computer based intervention to correct preservice teachers' misconceptions about the operation of division. *Journal of Computers in Mathematics and Science Teaching*, 10(2), 71-78.
- Wilson, J. W., & McKillip, W. D., (1990). *The University of Georgia geometry and measurement project: A revision of the geometry and measurement strands, K-6*. Materials from National Science Foundation Project grant # MDR-8651611. Copies were published in print (1000 copies) and in electronic format (disk files).
- Wilson, J. W., Fernandez, M. L., & Hadaway, N. (1993). Mathematical problem solving. In P. S. Wilson (Ed.), *Survey of research in mathematics education: Secondary school* (pp. 57-78). Reston, VA: NCTM.
- Abramovich, S., Fujii, T., & Wilson, J. (1994). Exploring and visualizing properties of polygonal numbers in a multiple-application computer-enhanced environment. In G.H. Marks (Ed.), *Proceeding of the 1994 International Symposium on Mathematics/Science Education and Technology*. Charlottesville, VA: AACE.
- Abramovich, S., Fujii, T., & Wilson, J. (1995). Multiple-application medium for the study of polygonal numbers. *Journal of Computers in Mathematics and Science Teaching*, 14(4).
- Wilson, J. W. (2003). Development of a mathematics education community: A personal perspective. In G. W. A. Stanic & J. Kilpatrick (Eds.), *A history of school mathematics*. Reston, VA: National Council of Teachers of Mathematics.
- Lambdin, D. V., & Wilson, J. W. (2001) The Teaching Preparation of Mathematics Educators in Doctoral Programs in Mathematics Education. In R. E. Reys & J. Kilpatrick (Eds.), *One Field, Many Paths: U. S. Doctoral Programs in Mathematics Education*. Providence, RI: American Mathematical Society.

## WEB-BASED PUBLICATIONS

- *Taking Some Mystery out of the Nine Point Triangle with GSP*  
<http://jwilson.coe.uga.edu/Texts.Folder/NinePtCir/NPC.html>  
 Exploration of the Nine Point Circle as the common circumcircle

of three special triangles and constructing the NPC as the image of a dilation of  $\frac{1}{2}$  of the circumcircle with the orthocenter as the center of dilation.

- *Technology in mathematics teaching and learning.*  
<http://jwilson.coe.uga.edu/Texts.Folder/Tech/Technology.Paper.html>  
Considerations for using technology, particularly the web, in the mathematics classroom
- *A teaching module on rational numbers for prospective elementary teachers.* (with D. Tirosh, E. Fischbein, and A. O. Graeber)  
<http://jwilson.coe.uga.edu/Texts.Folder/Tirosh/Module.html>  
This teaching module on rational numbers for prospective elementary teachers discusses the main concepts related to rational numbers and operations with rational numbers from various perspectives including mathematical, relevant historical, typical reported difficulties and their causes, and didactics. The module emphasizes the coherence of mathematics, its internal structure and consistency, and discuss these issues in the context of the rational number system. The main topics included in this teaching module are: mathematics and reality, mental models and their impact on mathematical reasoning, the concept of schema, the role of consistency in mathematics, the numerical system, and the rational numbers.
- *Equations with roots 2 and 5: A pedagogical exploration with a relation grapher*  
<http://jwilson.coe.uga.edu/EMT725/Roots.2.5/Roots.2.5.html>  
This paper examines sets of equations that have graphs crossing the x-axis only at 2 and 5.
- *Explorations of a problem with two squares.*  
<http://jwilson.coe.uga.edu/squareF/square.html/>  
This paper explores the ratio of the areas of two squares with one constructed inside the other.
- *Problem solving with Heron's Formula.*  
<http://jwilson.coe.uga.edu/EMT725/Heron/Heron.html>  
This is a paper on the development and demonstration of Heron's formula for the area of a triangle given the lengths of its three sides.
- *An investigation using parametric equations.*  
<http://jwilson.coe.uga.edu/EMT725/RotTri/RotTri.html>  
This paper examines the movement of triangles when one vertex is moved along the x-axis and another is moved along the y-axis.

- *Extended concurrencies of the triangle.*  
<http://jwilson.coe.uga.edu/EMT669/essays/concurrent.html>  
Paper presented at the 1996 MAA Annual Meeting, Orlando, Florida.
- *Envelopes of lines and circles.*  
<http://jwilson.coe.uga.edu/Texts.Folder/Envel/envelopes.html>  
This paper was constructed for a presentation/demonstration to Elbert County High School Mu Alpha Theta club on March 18, 1997. The paper examines the curves formed by sets of lines or circles that move along some defined paths.
- *Trisecting the area of a triangle.*  
<http://jwilson.coe.uga.edu/Texts.Folder/Halftri/trisect.html>  
This is an investigation of the constructions required to divide the area of a triangle into three regions of equal area, under different initial conditions.
- *Curve building.*  
<http://jwilson.coe.uga.edu/Texts.Folder/cb/curve.building.html>  
When two relations are multiplied, points (x,y) on either will appear on the product graph. Characteristics of the graph are described to tell whether a relation is factorable.
- *Travels with an orthocenter.*  
<http://jwilson.coe.uga.edu/Texts.Folder/ortho/Orthotravels.html>  
What is the locus of the orthocenter when one side of a triangle is fixed and the third vertex is moved along some path?
- *The product of two linear functions, each of which is tangent to the product function (with D. Barnes)*  
<http://jwilson.coe.uga.edu/Texts.Folder/tangent/f%28x%29.g%28x%29%3Dh%28x%29.html>  
Find two linear functions  $f(x)$  and  $g(x)$  such that the product  $h(x) = f(x).g(x)$  is tangent to each of the original lines.
- *Exploration of a triangle ratios problem*  
<http://jwilson.coe.uga.edu/Texts.Folder/ratio/ratio.html>  
Given a triangle ABC and an interior point M, extend a segment from each vertex through M to its intersection with the opposite side creating segments AD, BE, and CF. The exploration will evaluate some ratios of segments within the triangle.

- *Some explorations with Lemniscates*  
<http://jwilson.coe.uga.edu/Texts.Folder/Lem/Lemniscates.html>  
This paper suggests some investigations with the Lemniscate of Bernoulli and the Lemniscate of Gerone.

## **TEXTBOOK AUTHOR**

- Silver Burdett Publishers, author team, college methods textbook, 1974-1976
- American Book Company, author team, K-8 series, 1976-1979
- *Invitation to Mathematics*. (Elementary Textbook Series), Scott-Foresman Company, author team, 1981-present

## **FUNDED PROJECTS**

- Problem Solving and Instructional Computing in Mathematics, Title II Georgia Plan grant, February 1985 through September 1986, \$16,000.
- Geometry and Measurement Research Project, National Science Foundation, Project Director, \$551,907, September 1986 through December 1989.
- Problem Solving and Instructional Computing in Mathematics, Title II Georgia Plan grant, February 1987 through September 1988, \$16,000.
- Mathematical Problem Solving: A Problem Resource Book, Title II Georgia Plan grant, February 1987 through September 1989, \$5000.
- Problem Solving and Instructional Computing in Mathematics, Title II Georgia Plan grant, February 1988 through September 1989, \$16,000.
- Instructional Computing, LOGO Microworlds, and School Mathematics, Title II Georgia Plan grant, February 1988 through September 1989, \$16,000.
- History of Mathematics: A Course Guide, Title II Georgia Plan grant, February 1988 through September 1990, \$5000.
- Problem Solving and Instructional Computing in Mathematics, Title II Georgia Plan grant, February 1989 through September 1990, \$16,000.

- U.S. - Japan Seminar on Mathematical Problem Solving, National Science Foundation, \$95,000, July 1989-January 1991, Southern Illinois University. Matching funds for Japanese participation from the Japanese government. Dr. Wilson had a University of Georgia subcontract for \$18,000.
- Problem Solving and Instructional Computing in Mathematics, Eisenhower Grant, March 1990 - September 1991, \$16,000.
- Mathematical Problem Solving: A Problem Resource Using Hypercard, Eisenhower Grant, March 1990 through September 1991, \$5000.
- A Study of Mathematics Problem Solving in Georgia, Eisenhower Grant, March 1990 through September 1992, \$29,250.
- Calculator videotapes for Mathematics Teachers, National Science Foundation, Texas Instruments, Mesquite Independent School District, and the Fort Worth Independent School District, \$1,247,913, April 1990-April 1994, Mathematics Association of America. Dr. Wilson had responsibility for the evaluation aspects of the project.
- Conceptual Adjustment in Progressing from Whole to Rational Numbers, U.S.-Israeli Binational Science Foundation, September 1991-August 1992, University of Tel Aviv, University of Georgia, and University of Maryland. Continuation award for a new study, 1993-1998.
- Mathematical Investigations with Function Graphers, Geometry Software, Graphing Calculators, and Spreadsheets, Eisenhower Grant, March 1991 through September 1992, \$5,000.
- Mathematics Content and Instruction for Middle School Teachers, Eisenhower Grant, March 1991 through September 1993, \$54,584.
- Alternative Certification of Secondary and Middle Grades Science and Mathematics Teachers, Eisenhower Grant, March 1991 through September 1993, \$30,000 (with Michael Padilla).
- Learning and Performance and Support Laboratory. Georgia Research Alliance. July 1992 through June 1997, \$1.1M.

- Learning and Performance and Support Laboratory. Georgia Research Alliance. July 1993 through June 1994, \$1.2M.
- InterMath. Eisenhower Plan Grant, September 1997 through August 1998, \$57,962. (With M. Hannafin, LPSL)
- Interactive Mathematics Dictionary for Middle School. Eisenhower Plan Grant, March 1998 through August 1999. \$ 23,500.
- InterMath: Technology and the Teaching of Middle School Mathematics, National Science Foundation, Project Director, \$691,963, July 1999 through June 2004. (With M. Hannafin, LPSL, and P. Ohme, GaTech)

Center for Proficiency in Mathematics Teaching, National Science Foundation, Co-PI, \$10.6M, 2002-2007. (With P. Wilson and J. Kilpatrick, UGA, and D. Ball, H. Bass, and E. Silver, U of Mich)

## **PARTICIPANT**

- Several NSF Institutes and Fellowships, 1958-1964
- Stanford Honors Fellowship, 1963-1964
- Conference on Learning and the Educational Process, Social Science Research Council, Stanford University, Summer, 1965
- Conference on Needed Research in Mathematics Education, NCTM, Athens, 1967
- AERA Post-Session on Research Design, 1969
- Conference on Piagetian Studies in Mathematics Education, NCTM and NSF, New York, 1970
- Conference on School Mathematics for the 70's, School Mathematics Study Group, San Francisco, 1970
- Conference of a New Mathematics Curriculum, Florida State University, 1973
- Euclid Conference on Basic Skills and Learning in Mathematics, National Institute for Education, Euclid, Ohio, 1975
- UNESCO Conference on Mathematics Curriculum in Africa, Dakar, Senegal, May 1979
- Conference on Calculators and Mathematics Education, NIE, Washington, D.C., 1979
- Italy - U.S. Joint Seminar on Elementary School Science and Mathematics, Villa Falconieri, Frascati, Italy, 1985
- Italy - U.S. Joint Seminar on Secondary School Science and Mathematics, 1986

- Japan - U.S. Joint Seminar on Problem Solving in School Mathematics, East-West Center, Honolulu, HI, 1987
- Sino-American Conference of Secondary Mathematics Education, Kaohsiung, 1987
- Japan - U.S. Joint Seminar on Using Computers in School Mathematics, East-West Center, Honolulu, HI, 1991
- National Conference on Doctoral Programs in Mathematics Education, University of Missouri, 1998.

## CONSULTANT

- National Assessment of Educational Progress
  - Mathematics exercises review, 1967
  - Mathematics exercises review, 1968
  - Individually administered problem solving exercise development and review, 1972
  - Analysis and interpretation of Year 04 NAEP Mathematics Assessment data, 1972-1976
  - Development of Year 09 Mathematics Objectives, 1974-75
  - Member of the Year 09 Mathematics Assessment Advisory Panel, 1975-1979
  - Member of the Year 13 Mathematics Assessment Advisory Panel, 1979-1982
- Statewide Mathematics Advisory Committee, State of California, 1967-1968
- Cincinnati School Survey, 1968
- Minnesota Research and Evaluation Project, Advisory Board, 1971-1976
- National Science Foundation, 1973-1981
- Mathematics Assessment Project (Florida), 1973
- Georgia Criterion Referenced Mathematics Assessment, 1975-1976
- Florida Statewide Basic Mathematics Assessment, 1976
- National Institute of Education, 1976
- Glynn County Schools (Georgia), 1976-1977
- Houston County School (Georgia), 1976-1977
- California Assessment Project, 1976-1982
- IEA International Mathematics Committee, 1976-86
- Educational Testing Service, various projects, 1976-present

- New Jersey Basic Skills Assessment Project, 1977
- University of Hawaii, 1978-1981
- Dougherty County Schools (Georgia), 1979-1982
- Board of Regents, State of Florida, 1981
- Virginia State Department of Education, 1981-1996
- Louisville, Kentucky Schools, 1982-1983
- Algebra Project, University of Hawaii, 1983-1990
- Evaluation and Research Director, MAA/NCTM Teaching Mathematics with Calculators Project, J. Kenelly and J. Harvey, Directors, 1990-1992
- Clemson University. FIPSE project on using graphics calculators in calculus, linear algebra, differential equations, and statistics. 1991-1994
- Mathematics Association of America. FIPSE project on developing parallel mathematics test items, 1993-95.
- Clemson University, FIPSE project on Calculus Concepts, a technology rich approach to business calculus, 1993-1996.
- Clemson University and Georgia Institute of Technology. National Science Foundation project on using computers in the teaching of calculus, 1994-1996.
- Member, External Advisory Committee for Periodic Review, Department of Mathematics & Statistics, Hunter College, 1994
- University of North Florida, National Science Foundation Project on teacher enhancement, evaluation consultant, 1994-1997
- The University of North Florida. NSF Project on Technology, Discovery, and Communication in Secondary School Mathematics, 1995- 1999.
- Member, Visiting Committee for Institutional Review. Department of Science Teaching, Weizmann Institute, 1995
- Member, National Science Foundation Advisory Committee, Project on Integrated Curricula, Hunter College, 1996-2000
- The University of Missouri. NSF Project on Statewide Implementation of Reform Based Middle School Mathematics Curricula, 1996-1999.
- Clemson University, FIPSE project on a national field test of Calculus Concepts, 1996-1999.
- Member, Outside Committee for Institutional Review, Department of Mathematics, Indiana

University of Pennsylvania, 1997

## SELECTED PRESENTATIONS

Wilson, J. W. (1984, October). *Explorations with Heron's Theorem*. National Council of Teachers of Mathematics Regional Meeting, Biloxi, MS..

Wilson, J. W. (1985, April). *Areas of regions bounded by equiperimetic curves*. National Council of Teachers of Mathematics Annual Meeting, San Antonio

Wilson, J. W. (1991, February). *Mathematics problems my students and I have not yet finished*. Georgia Council of Mathematics Teachers, Savannah, GA.

Wilson, J. W. (1991, February). *Using dynamic computer generated visualizations in mathematics teaching*. Georgia Council of Supervisors of Mathematics, Savannah, GA.

Wilson, J. (1991, July). *Mathematical visualization in problem solving facilitated by computers*. U.S.-Japan Seminar on Using Computers in Mathematics Teaching, East-West Center, University of Hawaii.

Wilson, J. W. (1991, October). *Mathematics problems with soap bubbles -- Minimal networks*. Carolina Mathematics Conference, Charlotte, NC.

Wilson, J. W. (1991, October). *Journey to the center of a triangle with computers*. Georgia Council of Teachers of Mathematics, Eatonton, GA.

Wilson, J. W. (1991, October). *Visualization in mathematics teaching*. Georgia Council of Teachers of Mathematics, Eatonton, GA.

Wilson, J. W. (1991, November). *Mathematics programs in Japanese schools*. National Council of Teachers of Mathematics Regional Meeting, Louisville, KY.

Wilson, J. W. (1991, December). *Investigations about the center of a triangle*. National Council of Teachers of Mathematics Regional Meeting, Long Island, NY.

Abramovich, S., Fujii, T., & Wilson, J. (1994). *Exploring and visualizing properties of polygonal numbers in a multiple-application computer-enhanced environment*. International Symposium on Mathematics/Science Education and Technology, Charlottesville, VA.

Wilson, J. (1996, January). *Extended concurrencies of the triangle*. Mathematics Association of America Annual Meeting, Orlando, Florida. (Published by the Mathematics Forum at <http://forum.swarthmore.edu>.)

Wilson, J. (1996, June). *Mathematics visualizations enhanced with computer technology*. Missouri Council of Teachers of Mathematics, Columbia, Missouri.

Wilson, J. (1996, November). *Enhancing visual reasoning in mathematics: The role of technology*. Georgia Association of Independent Schools, Athens, Georgia.

Wilson, J. (1998, September). *Incorporating technology and Internet resources into mathematics instruction*. Athens Macintosh Users Group, Athens, Georgia.

Wilson, J. (1998, September). *Using Geometer's Sketchpad in mathematics explorations*. Presentation to Teachers and Students at Cedar Shoals High School, Athens, GA.

Wilson, J. (1996, September). *Using the Internet in mathematics instruction*. Office of Instructional Development Noon Seminar, University of Georgia, Athens, GA.

Wilson, J. W. (2000, October). *Technology in school mathematics reform*. University of Illinois Department of Mathematics Seminar Series on Issues in K-12 Mathematics Education, Champaign-Urbana, IL.

Wilson, J. W. (2001, April) *Developing Web Based Courses on a Shoestring: Courses for Inservice and Preservice Mathematics Teachers (Broadcast)*. Annual Conference on College Teaching and Learning, Jacksonville, FL.

### **SPECIAL LECTURES**

- National Taiwan Teachers Center, May 1987.
- National Taiwan Normal University, May 1987.
- National Institute for Educational Research, (Japan), October 1987.
- Tsukuba University (Japan), May 1988.
- Shanghai Normal University, (China), May 1988.
- Suchow University, (China), May 1988.
- Beijing Normal University, (China), May 1988.
- National Taiwan Normal University, May 1988.
- National Kaohsiung Normal University, (Taiwan), May 1988.
- Ping Tung Teachers College, (Taiwan), May 1988.
- Kasetsart University (Thailand), September 1997.
- Gothenburg University (Sweden), October, 1996

### **REVIEWER**

- *American Educational Research Journal*
- *Journal for Research in Mathematics Education*
- *Journal of Mathematics Teacher Education*
- *Pythagoras*
- *International Journal of Science and Mathematics Education*
- Harper and Row Publishers, reviews of various manuscripts in mathematics education

- J. B. Lippincott Company, reviews of various manuscripts in mathematics education
- John Wiley and Sons, Inc., Manuscript reviews
- Key Curriculum Press, Project evaluation, 1996 -- 2000
- Key Curriculum Press, manuscript reviews, 1995-2003
- Merrill Publishers, manuscript reviews
- Prentice-Hall Publishers, reviews of various manuscripts in mathematics education
- Prindle, Weber, and Schmidt, reviews of various manuscripts in mathematics education

### **PROFESSIONAL AFFILIATIONS**

- National Council of Teachers of Mathematics (Life member)
- Georgia Council of Teachers of Mathematics (Life member)
- Virginia Council of Teachers of Mathematics
- Mathematics Association of America
- American Educational Research Association
- School Science and Mathematics Association (Life Member)
- National Society for the Study of Education
- Phi Delta Kappa (Life Member)