

DAVID E. ZITARELLI

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Temple University
Philadelphia, PA 19122
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Born: August 12, 1941

Married: September 10, 1966, to Anita Helene Paul

Children: Paul (1/15/78) AB Harvard 2000, MBA University of Washington 2009

Nicole (4/3/79) BS Cornell 2001, MS Cornell 2002

Education: Pennsylvania State University, Ph.D. 1970

Temple University, B.A. 1963, M.A. 1965

Pennsylvania Military College, 1959-1962 (no degree)

Experience

1. Teaching

Temple University: Emeritus Professor, 2013

Full Professor, 2012

Tenured, Associate Professor, 1977

Assistant Professor, 1970

Vanderbilt University, Visiting Assistant Professor, 1976

2. Administration

Director, Graduate Student Teaching Program, 1990-1996

Director, College Mathematics Program, 1985-1990

Director, Outstanding Achievement Scholarship Program, 1981-1985

Director of Undergraduate Mathematics, 1977-1979

GRANTS

National Science Foundation

1. "The greater Philadelphia Center for the Advancement of Teaching and Learning in science, mathematics, engineering, and technology in grades 5-12," Centers for Learning and Teaching, \$192,000, 2001-2002 [co-PI]
2. "Collaborative for a new model for K-12 teacher preparation focused on enhancing math/science knowledge, new methodologies and technology," Collaborative for Teacher Preparation in Education, \$4,000,000, 1994-2000 [Nina Hillman, PI]
3. "Curriculum improvement through integration of computer assisted lectures and student laboratory experiments," Instrument and Laboratory Improvement, \$130,000, 1990-1992 [with David R. Hill]

Temple University Faculty Summer Grants

2005 – History of mathematics

2002 – History of mathematics

1989 – History of mathematics

1976 – History of mathematics

1973 – The algebraic theory of semigroups

PROFESSIONAL MEMBERSHIPS

1. Mathematical Association of America
2. American Mathematical Society
3. Canadian Society for the History and Philosophy of Mathematics
4. History of Science Society
5. British Society for the History of Mathematics

PROFESSIONAL ELECTED OFFICE

President, HOMSIGMAA (History of Mathematics Special Interest Group of the Mathematical Association of America), 2003-2006

HONORS

- Teaching
 1. Excellence in Teaching in Math and Computing Sciences (CST), 2007
 2. Great Teacher Award, Temple University, 2005
 3. Fellow, Temple Teaching Academy, 2004
 4. Lindback Award for Distinguished Teaching, 2001
 5. Honors Professor of the Year, 2001
 6. Rated "One of the Best Teachers at Temple" in Lisa Birnbach, *College Guide*, 1991
 7. Excellence in Teaching Award, CAS Alumni Association, 1989
 8. Commencement Speaker, CAS Graduation Ceremony, May 1989
- Listings
 1. American Men and Women of Science
 2. Who's Who in America
 3. Who's Who in the East
 4. Who's Who in Technology Today
 5. Who's Who in Education
 6. Dictionary of International Biography
 7. Men of Achievement
- Buckingham Scholar-in-Residence, Miami University, October 2002.
- Invited Participant in Special Conferences
 1. MAA Mathfest, Washington DC, 2015
 2. International Congress on the History of Mathematics, Lhasa, Tibet, 2007
 3. AMS Special Session on the History of Mathematics, University of Florida, 2006
 4. Midwest History of Mathematics Conference, Miami University, 2002.
 5. Mathematics & Statistics Conference, Miami University, 2002.
 6. International Conference on Technology in Collegiate Mathematics, Orlando, 1994.
 7. Technology in Mathematics Teaching, Birmingham University (England), 1993.
 8. Fourth SIAM Conference on Applied Linear Algebra, Univ. of Minnesota, 1991.
 9. History of Mathematical Analysis, Smithsonian Institution, 1976.
 10. History of American Mathematics, Texas Tech University, 1973.

PUBLICATIONS

A. Refereed papers

1. [The Mathematical Association of America: Its First 100 Years](#), in Stephen F. Kennedy (ed.) *A Century of Advancing Mathematics*, Washington, DC: MAA, 2015, pp. 135-157. [MR 3408145]
2. [Alan Turing in America](#), *Convergence*, (online journal of the MAA) **12** (February 2015).
3. [The first 100 years of the MAA](#), *Amer. Math. Monthly* **122** (2015), 4-23. [Zbl 1327.01053, MR 3324945]
4. [David Rittenhouse: Modern mathematician](#), *Notices of the American Mathematical Society* **62** (2015), 11-14. [MR 3308163]
5. [Hilbert in Missouri](#), *Mathematics Magazine* **84** (2011), 351-364. [MR 2863048]
6. [The 1904 St. Louis Congress and westward expansion of American mathematics](#), *Notices of the American Mathematical Society* **58** (2011), 1100-1111. [Zbl 1235.01017, MR 2856141]
7. [Connected sets and the AMS](#), *Notices of the American Mathematical Society* **56** (2009), 450-458. [Zbl 1174.01012, MR 2493481]
8. [Who was Miss Mullikin?](#) (with Thomas L. Bartlow), *Amer. Math. Monthly* **116** (February 2009), 99-114. [Zbl 1195.01048, MR 2478055]
9. [Straddling Centuries](#): The struggles of a mathematician and his university to enter the ranks of research mathematics, 1870-1950, *Historia Mathematica* **34** (2007) 271-288. [MR 2337304 (2008d:01015)]
10. Was Pythagoras Chinese? in *Hands-on History: A Resource for Teaching Mathematics*, Amy Shell-Gellasch (ed.), MAA Notes Series, 2007, 41-48.
11. In the shadow of giants: A section of American mathematicians, 1925-1950, *Mathematics Magazine* **78** (2005), 175-191. [Zbl 1085.01019, MR 2156572 (2005m:01023)]
12. The bicentennial of American mathematics journals, *College Mathematics Journal* **36** (2005), 2-15. [MR 2106351]
13. The origin and early impact of the Moore Method, *American Mathematical Monthly* **111** (2004), 465-486. [Zbl 1064.01020, MR 2076580]
14. [Towering figures in American mathematics, 1890-1950](#), *American Mathematical Monthly* **108** (2001), 606-635. [Zbl 0994.01006, MR 1862099 (2002i:01026)]
15. Prediction runs, *The Mathematics Teacher* **75** (1982), 236-237, 249.
16. Subdirectly irreducible Rees matrix semigroups, *Bulletin of the Australian Mathematical Society* **16** (1977), 351-354. [MR 56.4 #8735]
17. Compatible extensions and subdirectly irreducible semigroups, *Semigroup Forum* **10** (1974), 241-252. [MR 54.3 #5378; Ref. Zh. 1975 #9A152]
18. Inverse subsemigroups of Rees matrix semigroups, *Bulletin of the Australian Mathematical Society* **9** (1973), 445-463. [MR 51.6 #13101; Zb. 268.20043]

B. Other scholarly articles

1. Limit points and connected sets in the plane, *Convergence* **4** (2007) (computer graphics supplied by David R. Hill).
2. The genesis of the Moore Method, in Daniel Curtin, ed., *Proceedings of the Ninth Midwest History of Mathematics Conference*, Miami University, Oxford, OH, 2003, pp. 21-32.

3. Graduate students and the joint mathematics meetings: A report, *Focus* **5** (May/June 2003), 22-23.
4. An open letter to an Open friend, *Newsletter of the British Society for the History of Mathematics* **45** (Spring 2002), 20-21.
5. Rank and file American mathematicians, in Amy Shell-Gellasch, ed., *Proceedings of the History of Undergraduate Mathematics in America*, United States Military Academy, West Point, NY, 2001, pp. 179-193.
6. An outline of the history of mathematics in America, in James J. Tattersall, ed., *Proceedings of the Canadian Society for History and Philosophy of Mathematics*, Univ. Toronto, 1999, pp. 286-297.
7. Linear algebra + geometry + MATLAB (with David R. Hill), *Proceedings of the International Conference on Technology in Collegiate Mathematics, VII* (Orlando, 1994), Addison-Wesley, 1995.
8. Geometry in Linear Algebra with MATLAB (with David R. Hill), *Proceedings of the Conference on Technology in Mathematics Teaching: A Bridge between Teaching and Learning* (Birmingham, England, 1993), Addison-Wesley, 1994.
9. Linear transformations: Geometrically (with David R. Hill), in *Using MATLAB in the Classroom*, Prentice Hall, 1993, pp. 65-75.
10. Translations of articles for the American Mathematical Society from the Russian journals *Doklady*, *Izvestiya*, and *Matematiki Sbornik*.

C. Textbooks

1. *Linear Algebra LABS with MATLAB* (with David R. Hill), Macmillan Publishing Co., 1994; second edition, Prentice-Hall, 1996; third edition, Prentice-Hall, 2003.
2. *A Collaborative Approach to Mathematics*, Raymond-Reese Book Co., 1999.
3. *Brief Calculus* (with Raymond Coughlin), Saunders College Publishing Co., 1990; second edition, 1993.
4. *Calculus with Applications* (with Raymond Coughlin), Saunders College Publishing Co., 1989; second edition, 1993.
5. *Finite Mathematics and Calculus with Applications* (with Raymond Coughlin), Saunders College Publishing Co., 1989; second edition, 1992.
6. *Finite Mathematics with Applications* (with Raymond Coughlin), Saunders College Publishing Co., 1989; second edition, 1992; third edition, Raymond-Reese Book Co., 1997.
7. *The Ascent of Mathematics* (with Raymond Coughlin), McGraw-Hill Book Co., 1984.

D. Scholarly books and monographs

1. [*EPADEL: A Semisesquicentennial History, 1926-2000*](#), Raymond-Reese Book Co., 2001.
2. Translation from Russian of *Lectures on Semigroups of Translations* by B. Schein, American Mathematical Society Translations (2) **113** (1979), 123-181.
3. *Lectures on Orthodox Semigroups*, Vanderbilt University, May 1976, 55 pp. [MR 58.5 #22345]
4. Translation from Russian of *Exercises in Group Theory* by Lyapin, Aizenshtat, and Lesokhin, published jointly by Plenum Press (New York) and Wolters-Noordhoff Publishing (Groningen), 1972.

E. Book Reviews/Essay Reviews

1. [*Mathematics across the Iron Curtain: A History of the Algebraic Theory of Semigroups*](#) (by Christopher Hollings), *Mathematical Intelligencer* **38** (1) (2015), 84-87.
2. [*Pearls from a Lost City: The Lvov School of Mathematics*](#) (by Roman Duda), *Isis* **106** (2015), 973-974.
3. *Pursuit of Genius: Flexner, Einstein, and the Early Faculty at the Institute for Advanced Study* (by Steve Batterson, A K Peters, 2006), *Historia Mathematica* **34** (2007), 443-446.
4. *When Computers Were Human* (by David Alan Grier, Princeton U. Press, 2005), *American Mathematical Monthly* **113** (2006), 663-668.
5. *R.L. Moore: Mathematician and Teacher* (by John Parker, Mathematical Association of America, 2005), *American Mathematical Monthly* **113** (2006), 187-192.
6. *R.L. Moore: Mathematician and Teacher* (by John Parker, Mathematical Association of America, 2005), MAA Online, April 2005.
7. *Joseph Liouville 1809-1882. Master of Pure and Applied Mathematics* (by Jesper Lützen, Springer-Verlag, 1990), in *Historia Mathematica* **20** (1993), 205-210.
8. *Ramanujan Revisited* (by George E. Andrews *et al*, eds., Academic Press, 1988), in *The American Scientist*, March-April 1989, 180-181.

F. Creative Writings

1. Biographies of American mathematicians, *Lexikon bedeutender Mathematiker*, Eds. S. Gottwald, H.-J. Ilgands, K.-H. Schlote, Deutsch Publisher, Frankfurt [to appear].
2. Foreign-born presidents, *Notices of the American Mathematical Society* **52** (2005), 598.
3. Peripatetic Mathematician on the Recruiting Trail, *The Faculty Herald*, February 16, 1993, p. 3.
4. "Episodes in the history of algebra," an eight-part series of historical vignettes that introduce the eight volumes in the series, *Algebra*, Key Curriculum Press, 1990 and 1991.
5. Graphics in core math, *Bits & PCs*, September 1989, 10-11.
6. Suffering for a cause, *Temple Review*, Winter Issue, 1986, 12-15.
7. Art show has sex, drama, mystery, *The Philadelphia Inquirer*, May 1, 1984, Op-Ed Page.

OTHER SCHOLARLY WORK

A. Editorial positions

1. Editor, *Ganita-Bharati: Bulletin of the Indian Society for History of Mathematics*, 1994-2012
2. Abstracts Editor, *Historia Mathematica*, 1988-2000
3. Mathematics Editor, *Journal of the Pennsylvania Academy of Science*, 1989-1999

B. Referee

1. What makes a student the best? *American Mathematical Monthly*, not published.
2. On Legendre's work on the law of quadratic reciprocity, *American Mathematical Monthly*, December 2009
3. Combinatorics and analysis meet Fàa di Bruno, *Mathematics Magazine*, October 2009
4. On a series of Goldbach and Euler, *American Mathematical Monthly*, March 2006
5. Mathematical activities in English Colonial America: A survey of the seventeenth- and eighteenth centuries, *College Mathematics Journal*, 2004

6. Irene Stegun, the *Handbook of Mathematical Functions*, and the lingering influence of New Deal mathematics, *American Mathematical Monthly*, 2004
7. The beginnings of the R. L. Moore school of topology, *Historia Mathematica*, 2003
8. A prosopographical analysis of the early American mathematics, *Historia Mathematica*, 2002
9. Fabian Stedman: The first group theorist? *American Mathematical Monthly*, 1996

C. *Mathematical Reviews*

1. Judith Goodstein, *The Volterra Chronicles*, 2007. [MR2287463 (2007j:01010)]
2. Andrew Sterrett, *101 Careers in Mathematics*, 2004. [MR1977671 (2004g:01048)]
3. Eisso J. Atzema, "Into the woods: Norbert Wiener in Maine," 2004. [MR1986364 (2004c:01029)]
4. J.-E. Björk, "Sonja Kovalevsky: Her life and professorship at Stockholm," 2003. [MR1924968 (2003g:01037)]
5. Roger L. Cooke, "Kovalevskaya's mathematical work," 2003. [MR1916774 (2003g:01039)]
6. G. Mittag-Leffler, "Sophie Kovalevsky. Biographical note," 2003. [MR1924967 (2003g:01041)]

D. Organizer of Select Professional Meetings

1. Special Session on "The History of Mathematics in America," Annual Meeting of the Eastern Section of the American Mathematical Society, Philadelphia, October 2013.
2. Seminar, "Bicentennial Celebration of Mathematics Journals in America," American Philosophical Society, Philadelphia, April 2004.
3. Joint Special Session on "The History of Mathematics," Annual AMS/MAA Meetings:
 - Phoenix, January 2004
 - Baltimore, January 2003
 - San Diego, January 2002
 - New Orleans, January 2001
 - Washington, DC, January 2000
4. Special Session on "The History of Mathematics in America," Annual Meeting of the Eastern Section of the American Mathematical Society, Philadelphia, April 1998.
5. Special Session of Contributed Papers, "Uses of the History of Mathematics in the classroom," Annual AMS/MAA meeting, San Francisco, January 1991.
6. EPADEL Section of the MAA, Temple University (host institution), 1985.

E. Evaluator

1. Books for scholarly presses
 - a. American Mathematical Society, 2014: Christopher Hollings, *Mathematics across the Iron Curtain: A History of the Algebraic Theory of Semigroups*
 - b. Princeton University Press, 2008: Paul C. Pasles, *Every Number in its Place: Ben Franklin's Unsung Mathematical Odyssey*
 - c. Lehigh University Press, 2007: Edward Hogan, *Of the Human Heart: A Biography of Benjamin Peirce*
2. Promotion to full professor
 - Paul Pasles (Villanova University), 2012
 - Patti Wilger Hunter (Westmont College), 2010
 - Della Fenster (Richmond University), 2008

- Alan Gluchoff (Villanova University), 2007
 Patricia Allaire (Queensborough Community College), 2005
 Robert Bradley (Adelphi University), 2003.
3. Tenure and promotion to associate professor
 Paul Pasles (Villanova University), 2004
 Della Fenster (Richmond University), 2003
 4. Association of Computing Machinery annual conference, Franklin Plaza Hotel, 1984.
- F. Minicourses and workshops
1. “Linear algebra + Geometry + MATLAB,” International Conference on Technology in Collegiate Mathematics, Orlando, 1994.
 2. “Geometry in Linear Algebra with MATLAB,” Technology in Mathematics Teaching, University of Birmingham (England), September 1993.
- G. Organizer of Symposia
1. “Instructional computing in linear algebra,” Technology in Mathematics Teaching, University of Birmingham (England), September 1993.
 2. “Teaching linear algebra with software tools,” Society for Industrial and Applied Mathematics, University of Minnesota, September 1991.
- H. Organizer of Faculty Seminars
1. Philadelphia Area Seminar in the History of Mathematics, Villanova University, 2000-2012.
 2. Open questions in regular semigroups, Vanderbilt University, 1976.
 3. Regular ω -semigroups, 1975.
 4. Subdirectly irreducible semigroups, 1974.
 5. Extensions of semigroups, 1971.
- I. Chautauqua Course Lecturer
1. The History of Mathematics in America, Philadelphia, May 31-June 2, 2001.
 2. The Coming of Age of American Mathematics, Philadelphia, June 12-14, 2000.
 3. Sources in the History of Algebra, Philadelphia, April 20-24, 1988.
- J. Seminars for Graduate Students
1. The Joint Mathematical Meetings, December 2002
 2. Russian for the mathematician, spring semester 1975

LECTURES

1. “Karen Parshall and a course on the history of mathematics in America,” MAA MathFest, Washington DC, August 2015.
2. “Rascals and heroes,” Philadelphia Area Seminar on the History of Mathematics, Villanova, October 2013; and colloquium, Carleton College, October 2013.
3. “Elevating the ranking of American mathematics departments 1900-1940,” Special Session on the History of Mathematics, AMS/MAA annual meeting, Boston, January 2012.
4. “David Hilbert’s American colony,” Frederick V. Pohle Colloquium Series, Adelphi University, October 2011; and Philadelphia Area Seminar on the History of Mathematics, Villanova University, April 2011.

5. Panelist, "Writing the history of the MAA's first 100 years," AMS/MAA annual meeting, New Orleans, January 2011.
6. "N.J. Lennes, Montana, and Mathematics in the U.S. 1892-1922," Colloquium, University of Montana, April 2010.
7. "Mathematics at World's Fairs: Chicago 1893 and St. Louis 1904," History of Science Society annual meeting, Pittsburgh, PA, November 2008.
8. "Miss Mullikin and the evolution of connected sets," Allegheny Mountain Section of the MAA, Pittsburgh, April 2008.
9. "Who was Miss Mullikin?" Special Session on the History of Mathematics, AMS/MAA annual meeting, San Diego, January 2008.
10. "Who was Miss Mullikin?" Philadelphia Area Seminar on the History of Mathematics, Villanova, September 2007.
11. "Miss Mullikin and the internationalization of topology," International Commission on the History of Mathematics, Lhasa, Tibet, July 2007.
12. The other American mathematical congress, Special Session on the History of Mathematics, AMS/MAA annual meeting, New Orleans, January 2007.
13. Categorizing second-tier mathematicians, AMS Meeting, Miami, FL, April 2006.
14. "Is $a^{a^{\dots}}$ ever equal to a number for $a > 1$?" Society for Undergraduate Mathematics, Temple University, October 2005.
15. "The Moore-Kline correspondence: A portrait of two mathematicians," History of Science Society annual meeting, Austin, TX, November 2004.
16. "A mathematical community in the Age of Jefferson," American Philosophical Society, Philadelphia, April 2004.
17. "The bicentennial of American mathematics journals," History and Pedagogy of Mathematics annual meeting, April 2004.
18. "The bicentennial of American mathematics journals," Colloquium, Central Michigan University, April 2004.
19. "The bicentennial of American mathematics journals," Philadelphia Area Seminar on the History of Mathematics, Villanova University, December 2003.
20. "The genesis of the Moore Method," Colloquium, University of Virginia, March 2003.
21. "The annual AMS-MAA meeting," Candidates Seminar, Temple University, December 2002.
22. "J. B. Reynolds and mathematics in America, 1900-1940," 30th Annual Miami University Mathematics and Statistics Conference, October 2002.
23. "The genesis of the Moore Method," Ninth Midwest History of Mathematics Conference, Miami University, October 2002.
24. "EPADEL founders: Five fantastic figures," EPADEL Section, MAA, Annual meeting, Lehigh University, October 2001.
25. "Rank and file American mathematicians," West Point, June 2001.
26. "Towering figures in American mathematics, 1890-1950," Frederick V. Pohle Colloquium Series, Adelphi University, May 2000.
27. "A course on the history of mathematics in America," joint meeting of the Canadian Society for the History of Mathematics and the British Society for the History of Mathematics, Toronto, June 1999.
28. "Was Pythagoras Chinese?" AMS-MAA meeting, San Antonio, January 1999.
29. "Visualizing Algebra," Math Day, Temple University, November 1997.

30. "Visualizing Linear Combinations," AMS-MAA meeting, Orlando, January 1996 [with David Hill.]
31. "A Visual Approach to Mathematics," Technology Week, Temple Univ., October 1995.
32. "Teaching linear algebra with technology: Its impact," invited one-hour address, annual AMS-MAA meeting, San Francisco, January 1995 [with David Hill.]
33. "Opportunities through picturing elimination," annual AMS-MAA meeting, Cincinnati, January 1994 [with David Hill.]
34. "Linear algebra + a lab in MATLAB," International Conference on Technology in Mathematics Teaching, University of Birmingham (England), September 1993.
35. "Motivating the Gram-Schmidt process by projections and graphics," annual AMS-MAA meeting, San Antonio, January 1993 [with David Hill.]
36. "Graphics for plane linear transformations," annual AMS-MAA meeting, San Antonio, January 1993 [with David Hill.]
37. "Joseph Liouville: Modern mathematician," Villanova University, *Pi Mu Epsilon* address, April 1992.
38. "Teaching linear algebra with instructional tools and experiments in MATLAB," Fourth SIAM Conference on Applied Linear Algebra, University of Minnesota, September 1991.
39. "Mathematics in the non-Western world," Kensington Hospitality Charter, July 1991.
40. "The great Galois," Florence H.S. (NJ), May 1990.
41. "Calculus before Newton," Benjamin Franklin H. S., March 1990.
42. "Graphics in the core curriculum," annual AMS-MAA meeting, Louisville, January 1990.
43. "Extraordinary accomplishments of teenagers in the history of mathematics," High School for Engineering and Science, November 1989.
44. "Cardano in an algebra course," annual AMS-MAA meeting, Phoenix, January 1989.
45. "Geometry and art history," annual meeting of the Delaware Valley Chapter of Mensa, Quaker Meeting House, Philadelphia, May 1985.
46. "Bits, and pieces of history," keynote address at the annual meeting of the Association of Teachers of Mathematics in Philadelphia and vicinity, Delaware County Community College, October 1984.
47. "The parallel history of art and geometry in ancient Egypt, classical Greece, and the Renaissance," SRAP Program, T.U., November 1983.
48. "What did Galois know and when did he know it?" keynote address, Eastern Regional History of Mathematics Conference, St. Joseph's University, March 1982; and Pennsylvania Council of Teachers of Mathematics, Valley Forge, March 1979.
49. "The great Galois," Math Majors Assoc., T.U., December 1981.
50. "The lost art of problem solving," Ambler Campus Open House, March 1981.
51. "Extraordinary uses of ordinary equations," Cheltenham High School, October 1980.
52. "Some old ways of solving equations," Philadelphia Federation of Teachers, Philadelphia, March 1980.
53. "Computers: can we survive them?" Honors Program Temple University, February 1979.
54. "Extraordinary uses of ordinary equations," Ridley High School, October 1978.
55. "Lagrange and the history of algebra," Pennsylvania Council of Teachers of Mathematics, Harrisburg, March 1978.
56. "The history of algebra," Gwynedd-Mercy College, December 1976.
57. "Some historical aspects of solving polynomials," Colloquium, Vanderbilt University, March 1976.

58. "From polynomials to group theory," Ridley High School, April 1975 and May 1977.
59. "Compatible extensions of semigroups," annual AMS-MAA meeting, Washington DC, January 1975.
60. "Inverse subsemigroups of a completely 0-simple semigroup," annual AMS-MAA meeting, San Francisco, January 1974.
61. "The history of the development of modern algebra from solving polynomials," in the Visiting Lecturers Series, Shippensburg State College, October 1973.
62. "Algebra for secondary teachers," two-part lecture, NCTM Eastern Regional meeting, Pennsylvania Council of Teachers of Mathematics, Philadelphia, March 1973.
63. "Mathematical solutions to instant insanity," in the Visiting Lecturers Series, Shippensburg State College, October 1972.
64. Panel participant at the 50th annual NCTM meeting, devoted to the training of mathematics teachers in inner-city schools," Chicago, April 1972.
65. "Instant insanity and other puzzles," Kappa Mu Epsilon honor society, Kutztown State College, March 1972.
66. Panel participant at Association for Supervision and Curriculum Development conference, devoted to "Mathematics curriculum innovations," Philadelphia, March 1972.
67. "The fundamental homomorphism theorem," T.U. Chapter of Pi Mu Epsilon, December 1970.
68. "Mathematics for teacher-trainers," Great Lakes Cluster Conference, House Education and Welfare, Syracuse, NY, December 1970.

SERVICE

A. Department of Mathematics

1. Committees

- Executive (1972-1974, Chair, 1973-1974; 1977-81; 1985-1988; 1989-1992; 1995-1996; 2000-2003; 2005-2008)
- Undergraduate (1993-1998, 2006-2010)
- Personnel (1972-1973; 1984-1985; 1993-1996, 2004-2006)
- Merit (1975-1976; 1980-1982; 1984-1987, 2001-2004)
- Curriculum (1983-1984; 1985-1987; 1988-1990; 1992 – 2004; 2006-2007)
- Core Math (1979-1999, 2000-2001; Chair, 1984-1990, 2000-2001)
- Calculus (2000-2004)
- Teaching Effectiveness (1995-1996)
- Non-concentration (1970-1977)
- Algebra subcommittee of the Graduate Committee (1970-1979)
- Ad-hoc committee to construct a new Master's Degree program (1974-1975)
- Graduate (1976-1979)
- Recruitment (1982-1987)
- Discrete Math (1985-1986)
- Teaching evaluation (1988-1989)

2. Organizer, Retirement Dinner, 2010

3. Faculty Advisor: SUM (Society for Undergraduate Mathematics), 2003-2008
4. Math Majors Association Founder (1972), Director (1972-1997; 1998-1999)

5. Editor, *TUMM* (departmental newsletter), (1971-1978; 1989-1990; 1997-2000)
6. Ph.D. Oral Examination Committees of R. Lange (1973), G. Dion (1974), D. Kellman (1975), R. Maruca (1980), M. Levitan (1984), P. Hedrick (1985), Xue-Sen Lin (1987), Loretta Tokoly (1994)
7. Proctor for the Putnam Exam (1970-1981)
8. Organizer, Annual T.U. Mathematics Competition (1978-1979)
9. Participant in the weekly problem-solving sessions (1970-1973)
10. Faculty advisor of undergraduate mathematics majors (1972 - 2001)
11. Foreign Language examiner (French and Russian; 1972 - 1980)

B. College of Science and Technology

- Dean's Advisory Committee, 2007-2008
- Committee for Gen Ed Discrete Mathematics Course, 2006-2008
- Lindback Award Selection, 2007
- College Board Validity Study, 2005
- Representative, Faculty Senate Core Review Committee, 2001-2002
- AMP Advisory Committee, 1999-2001
- Student Disciplinary Committee, 2000

C. College of Arts & Sciences

1. Committees

- Workload (1976-1978)
 - Student grievance (1978-1983)
 - Admissions (ad hoc, 1979)
 - College math (1979-1984)
 - QUEST advisory council (1979-1982)
 - Science speakers bureau (1979-1980)
 - Career services advisory council (1979-1981)
 - Learning resources (1979-1981)
 - Writing committee (1981-1984; 1989-1992)
 - Recruiting advisory committee (1981-1983)
 - COI subcommittee to evaluate the Honors Program (1982-1984)
 - Curriculum review (1983-1985)
 - College Writing Committee (1984-1987 and 1989-1991; Chair 1986-1987 and 1990-1991)
 - Articulation Agreements with Community Colleges (1985-1986)
 - Recruitment and Retention Committee (1987-1991)
 - "Teaching Colleague" in the ATTIC Network (1988-1992)
 - Media Learning Center Faculty Advisory Committee (1994-1996)
 - Academic Technology Committee (Chair 1996-1998)
2. Marshall at CAS graduation ceremony (1989-1998)
 3. Panel member, "Computers and the Classroom," ATTIC Lunch & Discussion, February 1995
 4. Panel member, "Interplay between the Core Curriculum and the Major," April 1992

5. Member, Board of Governors, "The 21st Century Mathematics Center for Urban Schools," College of Education (1990-1992)
6. Speaker, "Plan Your Future Day," April 1990.
7. Doctoral thesis advisor, Joel Goldstein, Department of History.
8. Consultant, Philadelphia Alliance for Teaching Humanities, "Writing across the curriculum," February 1986.
9. Member of the Special Programs subcommittee of the Committee on Instruction.
10. Only faculty member on CLA committee for choosing summer orientation group-leaders (Spring, 1973)
11. Member of the UCLA Selection Committee for choosing student advisor-ombudsman (Spring 1973).

D. Temple University

1. Board of Directors
 - Owl Club, 2008-2012
 - Alumni Association, 2007-2010
2. Committees
 - Honors ReVision Committee (Spring 2009)
 - Student Award Selection Committee (1989-1993, 1995-2002, 2004-2008, 2010-2012; Chair, 1989-1993, 2000-2002; 2004-2008)
 - Search Committee, head softball coach (2005)
 - Speaker, Orientation Program for Teaching Assistants (2002)
 - Faculty Senate Core Review Committee (2001-2002)
 - Learning Communities Advisory (1995-1999)
 - Teaching and Learning with Technology Roundtable (1994-1998)
 - Faculty Senate Responsibility Committee (M. Asante hearings, Chair, 1995-1996)
 - Advisory Committee to Athletics (1995-1996)
 - Faculty Senate Core Curriculum Committee (1985-1990)
 - Faculty Scholarship Committee (1983-1989, Chair, 1985-1989)
 - Faculty Senate Personnel (Eisenman hearings; 1985)
 - EPPC Subcommittee on the Core Curriculum (1985)
 - Search Committee, Academic Advisor for Athletics (Paul Gibson; 1984-1985)
 - Student personnel (1982-1983)
 - Search Committee, head football coach (Bruce Arians; 1982)
 - EPPC (Educational Programs and Policies Committee, 1979-1980)
 - Cooperative education advisory (1977-1979)
 - Select orientation group leaders (1973)
3. Representative Senator, Faculty Senate, 2005-2008
4. Honors Program
 - Honors Oversight Committee (2003-2008; Chair, 2005-2008)
 - Speaker, Open House session, 2007
 - Advisor (1974-1977, 1983-1985)
 - Steering Committee (1975-1978; 1983-1985)

- Interdisciplinary Majors Committee (1975-1979)
5. Faculty Advisor to student organizations
 - Delta Kappa Delta (service sorority; 2004-2008)
 - ThinkQuest (international student competition sponsored by Oracle; 2005-2006)
 6. University recruitment
 - Participant, Focus Group on Temple's image and communications, 2005
 - Participant, Admissions Videotape, June 1995
 - Speaker, "Temple AMP" Open House, May 1995
 - Speaker, "Open House," November 1993
 - Faculty Representative, "Information Night," Huntington, New York, December 1992.
 - Photographs for Admissions Brochure, 1992-1993
 - Photographs for CAS Recruitment Brochure, 1988
 - Recruitment Film, Office of Admissions - shots of my classroom and my talks with students, and my voice-over, 1986
 - Master of Ceremonies, "Spring Sunday at Temple," April 1986
 - Philadelphia College Fair, Civic Center, October 1985
 - Meet-the-faculty, at orientation, 1976-1982
 - Speaker for College Relations, 1973-1974 and summer 1976
 - Faculty representative at "Hospitality Days," spring 1973
 7. Speaker, Diamond Awards Ceremony, 2007.
 8. Panel member, Orientation Program for Graduate Teaching Assistants, August 2002
 9. Panel participant, Learning Communities Faculty Development Workshop, July 1997
 10. Faculty Representative, New Resident Student Orientation, 1996-1997
 11. Guest Speaker, Faculty Lecture Series, Orientation, 1996-1997
 12. Speaker, Parents' Weekend Opening Reception, October 1996
 13. Mentor: Japanese students from the TUJ program, 1992-1993 and 1993-1994
 14. Panel participant: "Interplay between Core Curriculum and the Major, Temple University, April 1992
 15. Representative of Temple University, "A Celebration of Educational Partnership," Overbrook H.S., November 1991
 16. University Marshal at graduation, 1989-1991
 17. Member, doctoral dissertation committees in the College of Education for Charles Phillips (1981), Paula Cook (1988), Mohini Mohamed (1990), Ira Riddle (1990), Beverly Trosley (1990)
 18. Speaker, OAS Recognition Ceremony, 1986
 19. Faculty advisor, Alpha Lambda Delta, Freshman Honorary society, 1982-1987
 20. Operational Representative, AAUP, 1976-1978
 21. Representative of CLA to the Graduate Committee of the College of education, appointed by the Dean, 1972-1975
 22. Designed and taught special program of courses for the retraining of inner-city teachers, funded by the U.S. Office of Education, conducted through the College of Education at Vaux Jr. High School and Reynolds Elementary School, 1970-1972

E. Mathematical Community

1. MAA representative on the AMS-MAA Committee on Archives, 2009-2016
2. Member, MAA Centennial History Subcommittee, 2006-present
3. Eastern Pennsylvania and Delaware Section of the Mathematical Association of America
 - Liaison, 1998-2010
 - Public Information Officer, 1988-1992
 - Member, Program Committee, Fall, 1990
 - Chair, Nominating Committee, Fall, 1989
 - Host, Annual Meeting, Temple University, October 1985
4. Member, Allendoerfer Awards Committee of the Mathematical Association of America (1985-1987; Chair, 1986-1987)
5. Campus Representative, Mathematical Association of America, 1975-1998.