

VITA  
January, 2014

David R. Stone  
Department of Mathematical Sciences  
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Georgia Southern University  
Statesboro, Georgia 30460-8093

EDUCATION

Ph.D. in Mathematics, University of South Carolina, 1968.  
B. S. in Applied Mathematics, Georgia Tech, 1964.

PROFESSIONAL EXPERIENCE

2008 - present: Georgia Southern as Professor Emeritus and part time faculty;  
1968 - 2008: Georgia Southern as Assistant, Associate, then Professor;  
    Except 1977-78: University of Kentucky as Visiting Associate Professor;  
1967-68: University of Kentucky as Graduate Teaching Assistant.

Honors and Awards:

- \* Mathematical Association of America Meritorious Service Award, January 2009;
- \* Mathematical Association of America Nominee for President-Elect, May, 2009;
- \* Mathematical Association of America Nominee for President-Elect, May, 2007;
- \* Georgia Council of Teachers of Mathematics' John Neff Award, October 2005;
- \* MAA Southeastern Section Award for Distinguished College or University Teaching of Mathematics, March 2005;
- \* Georgia Southern University College of Science & Technology Teaching Award (2005);
- \* Georgia Southern Professor of the Year, April 2001;
- \* Georgia Southern Award for Excellence in Contributions to Service (May 2000);  
    Nominated for GSU Award for Excellence in Contributions to Service (1990,1991, 1997);
- \* Georgia Southern University College of Science & Technology Service Award (2000);
- \* MAA Southeastern Section Distinguished Service Award, March 1998;
- \* Georgia Council of Teachers of Mathematics' Gladys M. Thomason Award for Distinguished Service, October 1993;
- \* Georgia Southern Award for Excellence in Contributions to Instruction (June 1988);  
    Nominated for GSU Award for Excellence in Contributions to Instruction (1986,1987, 1988);
- \* Named "Outstanding Educator of America" by GSC in 1975;

Courses taught:

Graduate courses in modern algebra, linear algebra, number theory, numerical analysis, theory of equations, history of mathematics, complex variables, discrete mathematics, graph theory and patterns of problem solving.

Undergraduate courses in developmental math, algebra, trigonometry, finite math, calculus, discrete math for K-8 teachers, elementary number theory, modern algebra, applied modern algebra, linear algebra, linear programming, mathematical modeling, elementary set theory, mathematical structures, problem solving, analysis, complex variables, and computer science

(BASIC and Pascal I).

Selected to design and teach the freshman mathematics/science component in the Bell Honors Program (1982-84, 1987-2003);

Georgia Southern Service:

Faculty Senate (5 elected terms)  
Senate Librarian and Representative to Deans' Council meetings (1983-84 and 1987-88)  
“Mace-bearer” at Graduations and Honors Day  
Graduate Council; Graduate Committee  
Athletics Committee (chair) and Board of Southern Boosters  
Library Committee  
Student Personnel Council  
Employee Benefits Committee  
Committee on Committees (chair)  
Honors Committee (chair)  
Honors Council  
Graduate Dean Search Committee  
Freshman Orientation Committee  
Traffic and Safety Committee  
Self-Study Library Standards Committee  
Learning Resources Center Advisory Council  
Ad hoc Freshman Placement Committee  
Dean's ad hoc promotion and Tenure Committee  
Dean's ad hoc Ruffin Cup Committee  
Dean of Education Search Committee  
College of Science & Technology Tenure & Promotion Committee  
College of Science & Technology Post-Tenure Review Committee  
College of Science & Technology Academic Excellence Committee  
College of Science & Technology Excellence in Service Award Committee  
College of Science & Technology Task Force on Policies and Procedures  
College of Science & Technology ad hoc Alumni Award committee  
College of Science & Technology Service Award Committee  
College of Science & Technology “Marshal” at Graduations

Within the Department of Mathematical Sciences:

Departmental Library Representative 1968 -1990 (responsible for all ordering)  
Search committee for new Department Chair (4 times)  
Search committee for new faculty (9 times, three times as chair)  
Self-study committees  
Curriculum committee (chair)  
Ad hoc committee on Strategic Planning (chair)  
Advisory Committee  
Computer science committee  
Mathematics Education committee  
Mathematics Major committee  
Planning committee  
Various textbook selection committees

Advise majors  
 Mentor for new faculty  
 Served on many Masters oral and written exam committees  
 Originator and faculty advisor of the Student MAA chapter  
 Alumni committee  
 Assessment committee  
 Minority Issues committee  
 Peer review and post-tenure review committee  
 Departmental grants committee (chair)  
 Tenure committee (chair)  
 Promotion committee (chair)  
 College Algebra committee  
 Pre-calculus committee (chair)  
 Calculus committee  
 Common core courses committee (chair)  
 Survey of calculus committee  
 Governance Task Force  
 Bobby Johnson Scholarship Committee  
 Teaching Team (Chair)  
 Ad hoc committee to select Outstanding Senior  
 Departmental Representative for the A Day for Southern On Campus campaign.

## PROFESSIONAL ACTIVITIES

### A. Publications and presentations.

- "Solve This! Mathematics Problems as Challenges", with Brian Beasley. Paper given in the Special Session on Teaching and Learning via Problems Sections in Journals 1, at meeting of the Southeastern Section of the Mathematical Association of America, Winthrop, SC, March 15, 2013.
- "The Pedagogical and Research Value of Problems Sections", with Brian Beasley. Paper given in the Special Session on Teaching and Learning via Problems Sections in Journals 2, at meeting of the Southeastern Section of the Mathematical Association of America, Winthrop, SC, March 16, 2013.
- Arranged and presided : Special Session on Teaching and Learning via Problems Sections in Journals 1 and 2, at meeting of the Southeastern Section of the Mathematical Association of America, Winthrop, SC, March 15-16, 2013.
- "On  $A = mP$  Heronian Triangles and  $V = mA$  cones", with John Hawkins. Paper given in the Special Session on Geometry at meeting of the Southeastern Section of the Mathematical Association of America, Charleston, SC, March 28, 2008.
- " Fibonacci Numbers and the Meta-Theorem". Invited address given at MAA State Dinner Meeting, Milledgeville, GA, March 15, 2008.

- "Some Formulae for the Fibonacci and Lucas Numbers", with Brian Curtin and Ena Salter. Paper presented at the Twelfth International Conference on Fibonacci Numbers, San Francisco, CA, July 20, 2006.
- "Classical Mathematics Creates Modern Internet Security". Invited talk given for Mathematics Awareness Month, University of Louisiana-Lafayette, Lafayette, LA, April 27, 2006.
- "Mathematics Is Not a Spectator Sport". Invited address given at meeting of the Southeastern Section of the Mathematical Association of America, Auburn, AL, April 1, 2006.
- "Teaching with Templates – Knowing “How” can Precede “Why” ". Talk given at annual meeting of Georgia Council Teachers of Mathematics, Rock Eagle, October 2005.
- "An Adventure With a Student’s “Insight” on a Calculus Problem”, with Marshall Ransom. Paper given in the Special Session on Calculus at meeting of the Southeastern Section of the Mathematical Association of America, Raleigh, NC, March 12, 2005.
- "A New High School Mathematics Curriculum for Georgia: Preliminary Report”, with Cathie Aust. Paper given at meeting of the Southeastern Section of the Mathematical Association of America, Raleigh, NC, March 11, 2005.
- " No Child Left Behind – a Panel discussion”. Invited panelist at meeting of the Southeastern Section of the Mathematical Association of America, Clarksville, TN, March 26, 2004.
- “On the number of linear independent binary vectors with applications to the construction of linear codes and orthogonal arrays”, with Steve Damelin, Greg Michalski and Gary Mullen; Monatshefte fur Mathematik, vol. 141, 2004, pp 277-288. Also published online 12/9/03.
- "Lotteries, Good problems and Mathematicians”. Invited address given at meeting of the Wisconsin Section of the Mathematical Association of America, Wausau, Wisconsin, April 25, 2003.
- "The Bracelet Problem – Fibonacci Numbers mod  $m$ ". Paper given at meeting of the Southeastern Section of the Mathematical Association of America, Clemson, SC, March 21, 2003.
- “On the number of linear independent binary vectors with applications to the construction of linear codes and orthogonal arrays”, with Steve Damelin, Greg Michalski and Gary Mullen; A talk given at the Joint Mathematics Meetings in Baltimore in January, 2003. The abstract appears in AMS Abstracts, vol. 24, Number 1, Issue 131, 2003, page 49.
- “The Probabilities of Odd/Even Combinations in Lotto”, with Pat Humphrey. A talk given at the Joint Mathematics Meetings in Baltimore in January 2003. The abstract appears in AMS Abstracts, vol. 24, Number 1, Issue 131, 2003, page 23.
- "Counting on Lotteries”. Invited address given at meeting of the Iowa Section of the

Mathematical Association of America, Sioux City, Iowa, April 6, 2002.

- "Mathematics Problems -- the Eternal Lure". Invited address given at meeting of the Iowa Section of the Mathematical Association of America, Sioux City, Iowa, April 5, 2002.
- "An Application of Combinatorics – Lotto Probabilities", with Pat Humphrey. Contributed paper presented at the Joint Statistical Meeting, Atlanta, Georgia, August 5-9, 2001.
- "Lotteries – Bad Odds, Good Problems". Invited address given at meeting of the Missouri Section of the Mathematical Association of America, Rolla, Missouri, April 7, 2001.
- "What is Project NExT? – A Panel Discussion". Invited panelist at meeting of the Southeastern Section of the Mathematical Association of America, Montgomery, AL, March 30, 2001.
- "Runs in Lotto – A Combinatorial Analysis" with Pat Humphrey. A contributed paper presented on January 13, 2001, in the AMS Session on Combinatorics at the Joint Mathematics Meetings in New Orleans. The abstract appeared in the AMS Abstracts, vol. 22, No 1, pages 11-12.
- "Sequence, Series and the Meaning of Convergence". Invited talk given in the Georgia Association of Advanced Placement Mathematics Teachers Calculus BC workshop, Georgia Mathematics Conference, Rock Eagle, Georgia, October 20, 2000.
- "The  $x, y, z$  of Professional Service". Invited lecture given in the Georgia Southern *Focus on Excellence* Series, GSU Museum, September 19, 2000.
- "Creating and Sustaining NExT-like Projects in the MAA Sections". Panelist in Special Session at Mathematical Association of America MathFest 2000, UCLA, Los Angeles, CA, August 5, 2000.
- "Interesting problems and the power of mathematics". Invited address given at meeting of the Allegheny Mountain Section of the Mathematical Association of America, Pittsburgh, Pennsylvania, April 8, 2000.
- "Consecutive integers in LOTTO -- Analytical vs. Empirical Probabilities", with Pat Humphrey. Paper given at meeting of the Southeastern Section of the Mathematical Association of America, Charlotte, NC, March 11, 2000.
- Crux Mathematicorum, featured solution to Problem 2410, vol. 26, no. 1, p 59, February 2000.
- "Great Jobs for Math Majors" - a book review appearing on MAA Online, Spring 1999.
- "Mathematics problems as challenges, from Tartaglia to the brachistochrone to Erdos". Invited address given at meeting of the Indiana Section of the Mathematical Association of America, Bloomington, Indiana, March 27, 1999.

- "Favorite Problems", with Paul Zorn. Interactive 'problem session' conducted at the meeting of the Louisiana - Mississippi Section of the Mathematical Association of America, Jackson, Mississippi, March 6, 1999.
- "Math Problems for Fun and Profit". Invited address given at Student Banquet at the meeting of the Louisiana - Mississippi Section of the Mathematical Association of America, Jackson, Mississippi, March 5, 1999.
- "MAA Section Activities". Panel organized and chaired at the meeting of the Louisiana - Mississippi Section of the Mathematical Association of America, Jackson, Mississippi, March 5, 1999.
- "Mathematics = Problems". Invited talk given at the meeting of the Middle Georgia Mathematics Mosaic, Mercer University, Macon, Georgia, February 25, 1999.
- "Remembering John Neff". Invited article in FOCUS, the Newsletter of the MAA, January, 1999.
- "Math Tournaments -- Hosts and Competitors Views", with Brenda Carter. Talk given at the Joint Mathematics meetings in the MAA Special Session on Mathematics Competitions, San Antonio, Texas, January 13, 1999. Abstract appeared as 939-D1-877 in Abstracts of the AMS, vol. 20, No. 1, 1999, page 180.
- Crux Mathematicorum, featured solution (composite with others) to Problem 2275, vol. 24, no. 7, p 445-6, November 1998.
- School Science and Mathematics Association Journal, featured solution to Problem 4632-OBG, vol. 98, no. 7, p 406-7, November 1998.
- "Mathematics is a Lazy Man's Sport". Invited address given at meeting of the Ohio Section of the Mathematical Association of America, Columbus, Ohio, October 9, 1998.
- Crux Mathematicorum, featured solution to Problem 2238, vol. 24, no. 4, p 253-4, May 1998.
- School Science and Mathematics Association Journal, featured solution (composite with others) to Problem 4625, vol. 98, no. 5, p 275-6, May 1998.
- School Science and Mathematics Association Journal, featured solution to Problem 4621, vol. 98, no. 5, p 273-4, May 1998.
- "The Heart of Mathematics is its Problems". Invited address given at meeting of the Illinois Section of the Mathematical Association of America, Lebanon, Illinois, March 28, 1998.
- "A Crux Math Problem Based Upon a Cantor-like Set," with Vrej Zarikian. Talk given at meeting of the Southeastern Section of the Mathematical Association of America, Charleston, South Carolina, March 14, 1998.

- School Science and Mathematics Association Journal, featured solution to Problem 4613, vol. 98, no. 3, p 167, March 1998.
- School Science and Mathematics Association Journal, featured solution to Problem 4606, vol. 98, no. 2, p 112, February 1998.
- School Science and Mathematics Association Journal, featured solution (composite with others) to Problem 4605, vol. 98, no. 2, p 112, February 1998.
- School Science and Mathematics Association Journal, featured solution (composite with others) to Problem 4604, vol. 98, no. 2, p 111-2, February 1998.
- School Science and Mathematics Association Journal, featured solution (composite with others) to Problem 4601, vol. 98, no. 2, p 56, January 1998.
- Crux Mathematicorum, with Carl Pomerance, featured solution to Problem 2134, vol. 23, no. 3, p 182-3, April, 1997.
- "Problems on Visible Lattice Points", with Ken Spackman. Presentation at the SouthEastern Regional Meeting On Numbers (SERMON), Athens, Georgia, April 12, 1997.
- "Professional Development Issues Concerning Young and Future Faculty". Panel presentation at the MAA Southeastern Section meeting, Atlanta, March 14, 1997.
- School Science and Mathematics Association Journal, featured solution to Problem 4556, vol. 97, no. 2, p 111, February 1997.
- "An Integrated Mathematics/Biology Course for a Freshman Honors Class", with Bill Irby of the GSU Department of Biology. Paper given in the MAA Special Session on Interdisciplinary Courses, AMS/MAA Annual Meeting, San Diego, California, January 11, 1997.
- School Science and Mathematics Association Journal, featured solution to Problem 4543, vol. 96, no. 8, p 442, December 1996.
- Crux Mathematicorum, featured solution (composite with others) to Problem 2045, vol. 22, no. 4, p 180, May 1996.
- School Science and Mathematics Association Journal, featured solution to Problem 4515; Vol. 96, No. 3, page 167, March 1996.
- School Science and Mathematics Association Journal, featured solution to Problem 4483; Vol. 95, No. 6, page 333, Oct. 1995.
- "A Tacklebox of Problems --a Variety of Baits to Lure Students Into Problem Solving". Talk given at Southern Regional Conference of the National Council Teachers of Mathematics, Knoxville, TN, October 6, 1995.

- "The Faculty Member as Teacher and Scholar". Presentation at the NExT Workshop (with other panelists Ray Johnson of the University of Maryland and Janet Anderson of Hope College), MAA/AMS Summer Meeting, University of Vermont, August 4, 1995.
- "Expanding Connections, Extending Conversations". Panel presentation at the meeting of the Mathematical Sciences Education Board, National Academy of Sciences, Washington DC, May 19, 1995.
- "Coalescing - the state coalition and involving all partners". Presentation at the Quality Education for Minorities Conference, Atlanta, March 4, 1995. Also participated in Panel Discussion "Recommendations for Next Steps".
- "Form your own local collaborative". Article in Reflections, the newsletter of the Georgia Council of Teachers of Mathematics, June, 1994. The Professor's Corner article, "Mathematics in Industry", was also reprinted in this issue of Reflections.
- "Mathematics in Industry" in The Professor's Corner, The Radical Eagle. GSU Department of Mathematics and Computer Science publication distributed to high school teachers.
- "Covering the lottery and other mathematical connections". Talk given to the Georgia Southern MAA Student Chapter as part of Mathematics Awareness Week, April 26, 1994.
- "The Georgia Coalition for Science, Technology and Mathematics Education". Panel at the Georgia Partners in Education Conference, Jekyll Island, Georgia, March 17, 1994.
- "Making the Science-Mathematics Connection", at the Fourth Annual Meeting of State Coalition Directors, Washington, January, 1994.
- "The IMLE Project", at the Governor's Conference on Education, Atlanta, October 1993.
- "A Tacklebox of Problems, or Different Baits for Different Students". Talk given at annual meeting of Georgia Council Teachers of Mathematics, Rock Eagle, October 1992.
- "Supporting and Rewarding Faculty Participation in Academic Alliances." Panel at AAHE National Conference on School/College Collaboration, San Diego, June 28, 1992. Was also honored by AAHE for "vital contributions to the Academic Alliance Project".
- "Why Johnny Can't Compute." Talk given to Statesboro Morning Optimists Club, 9/23/91.
- "Mathematics and Mathematics Education Today." Talk given to Swainsboro Kiwanis Club, May 7, 1991.
- "The Georgia Mathematics Coalition and the Twenty-First Century Project." Talk given at annual meeting of Georgia Council Teachers of Mathematics, Rock Eagle, October 18, 1991.
- "The Georgia Coalition for Excellence in Mathematics Education." Talk given to the Metro Atlanta Mathematics Supervisors Conference, Atlanta, September 23, 1991.



- "Implementing the Georgia Coalition for Excellence in Mathematics Education." Talk given at the DeKalb College Mathematics Conference, Atlanta, May 17, 1991.
- "The Southeastern States Mathematics Coalitions." Panel presentation, with other state coalition directors, organized at the meeting of the Southeastern Section of the Mathematical Association of America, Mobile, Alabama, April 6, 1991.
- "Has Problem Solving Run Its Course?" Talk presented to the Southeastern Region meeting of the Georgia Council of Teachers of Mathematics, Savannah, February 1, 1991.
- "Whatever Happened to Synthetic Division?" Talk given at annual meeting of Georgia Council Teachers of Mathematics, Rock Eagle, October 18, 1990.
- "The Georgia Coalition for Excellence in Mathematics Education." Talk given at the DeKalb College Mathematics Conference, Atlanta, May 18, 1990.
- "The Georgia Mathematics Coalition." Talk given to the Georgia Council of Supervisors of Mathematics, Savannah, February 1, 1990.
- "How Much Does King Kong Weigh?" Talk given in the Georgia Southern Focus on Excellence Series, May 9, 1989.
- Solution to Problem 342 (proposed by O. Bintz) College Math Journal **20** (1989), 164-66 (with Carl Pomerance).
- "The Pleasures and Pitfalls of Team Teaching in the Bell Honors Program." Presentation, with other BHP teachers and students, given at the Georgia Honors Council meeting, Macon, February, 1989.
- "What Math Do We Teach Honors Students?" Talk given at annual meeting of Georgia Council Teachers of Mathematics, Rock Eagle, October 22, 1988.
- "Satchel Paige Was Wrong -- Looking Back Is Important" with Ginger Bolton. Talk given at annual meeting of Georgia Council of Teachers of Mathematics, Rock Eagle, October 17, 1987.
- "Primes, Factoring Big Numbers, and Secret Codes." Talk given at Western Region of Georgia Council of Teachers of Mathematics, Georgia Southwestern College, Americus, March 7, 1987.
- Notes on Set Theory, Southern University Press, Statesboro, 1984.
- "Pascal, Long Integers, and Visible Paths To Infinity." Talk given in GSC Mathematics Department Colloquium series, co-sponsored by GSC ACM Chapter, Fall Quarter, 1984.
- "Building a Large List of Primes with Apple Pascal." Talk given at annual meeting of Microcomputer User's Group/University System of Georgia, Georgia Tech, Atlanta, September 8, 1984.

- "Using the Computer To Find Visible Paths To Infinity" with Ken Spackman. Invited talk in Special Session on "Empirical Uses of the Computer in Mathematics" at meeting of SE Section of the Mathematical Association of America, Cookeville, Tennessee, April 1984.
- "Which Triangular Numbers Are Square?" Talk given at meeting of the Southeastern Section of the Mathematical Association of America, Charleston, South Carolina, April, 1983.
- "Some Applications of Mathematics and Computers." Talk given at the Armstrong State College Pi Mu Epsilon Spring Banquet, May 1982.
- "Is Teaching Problem Solving Transitive -- Or, Will We Reach the Kids?" Talk given at annual meeting of the Georgia Council of Teachers of Mathematics, Rock Eagle, October 30, 1981.
- "Counting the Maximal Ideals of a Matrix Ring." Paper presented at the Georgia Tech Mathematics Conference, October 24, 1981.
- "Flat and projective character modules" with Thomas J. Cheatham. Proceedings of the American Mathematical Society, vol. 81, Number 2, February 1981, pp. 175-77.
- "Teaching Problem Solving - A report on a LOCI Project." Talk at meeting of Southeastern Section of Mathematical Association of America, Birmingham, Alabama, April 11, 1981.
- "Maximal left ideals and idealizers in matrix rings." Canadian Journal of Mathematics, vol. XXXII, No. 6, 1980, pp. 1397-1410.
- "Number Theory and the New Unbreakable Code." Talk presented to the Southeastern Region meeting of the Georgia Council of Teachers of Mathematics, Savannah, March 1980.
- "Tax-sheltered annuities as a savings vehicle? -- a computer approach" with Arthur Sparks. Paper presented at N.S.F. Chautauqua Short Course, Athens, Georgia, March 1979.
- "Maximal left ideals in matrix rings" with E. E. Enochs. Paper presented in Special Session on Ring Theory at meeting of American Mathematical Society, Columbus, Ohio, March 1978. Abstract appeared in the Notices of the A. M. S., vol. 25, no. 2, 1978, p. A-274.
- "The Coconut Problem and the Hand Calculator." Talk given at meeting of Southeastern Section of Mathematical Association of America, Huntsville, Alabama, March, 1977.
- "A Ring of Infinite Diagonal Matrices." Paper presented at meeting of Southeastern Section of Mathematical Association of America, Charlotte, NC, March 1976.
- "Torsion-free and divisible modules over matrix rings." Pacific Journal of Mathematics, vol. 35, No. 1, 1970, pp. 235-253. (Published version of dissertation.)
- Numerous solutions and comments in problems sections of The American Mathematical

Monthly, The Mathematics Magazine, Crux Mathematicorum, The College Math Journal, School Science and Mathematics and the Fibonacci Quarterly.

••• Twice per year, columns and editorials in the MAA Southeastern Section Newsletter: as "Reports" from the Editor, the Section Chair and the Section Governor, 1984-1997.

#### B. Special conferences.

- Georgia representative at the NASA-sponsored national meeting of the National Alliance for State Science and Mathematics Coalitions, Arlington, VA, April 12-13, 2007.

- Participant in the Twelfth International Conference on Fibonacci Numbers, San Francisco State University, San Francisco, CA, July 17-21, 2006.

- Georgia representative at the NASA-sponsored national meeting of the National Alliance for State Science and Mathematics Coalitions, Baltimore, MD, April 4-5, 2005.

- Georgia representative at the NASA-sponsored national meeting of the National Alliance for State Science and Mathematics Coalitions, Baltimore, MD, March 18-19, 2004.

- Georgia representative at the NASA-sponsored national meeting of the National Alliance for State Science and Mathematics Coalitions, Baltimore, MD, March 31-April 2, 2003.

- Georgia representative at the NASA-sponsored national meeting of the National Alliance for State Science and Mathematics Coalitions, Baltimore, MD, March 11-13, 2002.

- Georgia representative at the NASA-sponsored national meeting of the National Alliance for State Science and Mathematics Coalitions, Tampa, FL, February 10-13, 2000.

- Georgia representative at the NASA-sponsored national meeting of the National Alliance for State Science and Mathematics Coalitions, Atlanta, GA, February 5-7, 1999.

- Georgia representative at the NASA-sponsored national meeting of the National Alliance for State Science and Mathematics Coalitions, Baltimore, MD, November 20-23, 1997.

- "Seminar on the Third International Science and Mathematics Study" in Atlanta on November 18, 1997. Introduced speaker Bill Schmidt at special conference sponsored by GCSTME and Georgia Power.

- "Creating a Georgia Vision for Science, Technology and Mathematics Education" in Atlanta on October 25, 1996. Special conference sponsored by GCSTME and GPEE.

- Participant in the GCSTME-sponsored SYNERGY Conference, Columbus College, June 10-14, 1995.

- Participant in the CPB/Annenberg Workshop for NASSMC Executive Committee, Chicago, May 12-13, 1995.

- Participant in the NSF/NRC National Convocation "From Analysis to Action: Undergraduate Education in the Sciences, Mathematics, Engineering and Technology", held at

the National Academy of Sciences, Washington DC, April 8-11, 1995.

- Participant in "birds of a feather" session "Industrial Mathematics", Wrens High School, February 15, 1994. This was a joint effort hosted by Wrens HS and the GCEME-sponsored CSRA Mathematics/Science Collaborative.

- Participant in workshop "Revitalizing Calculus", Valdosta State University, January 28, 1994. This was a joint effort hosted by VSU, the MAA and the GCEME-sponsored South Georgia Mathematics/Science Collaborative.

- Participant in the national conference "Facilitating Systemic Change in Mathematics, Science and Technology Education", Washington, January 1994. Served on the Design Team for the conference and moderated one session; participation was supported by a travel grant from the Education Commission of the States. Held in conjunction with the Annual Meeting of State Coalition Directors.

- Participant in the National Convocation "Reinventing Schools: The Technology Is Now" held at the National Academy of Sciences, Washington DC, May 1993.

- Participant in the MAA minicourse "Group Projects in Calculus" by the Ithaca College Team, given in conjunction with the MAA/AMS national meeting, San Antonio, January 1993.

- Participant in the National Conference of Leaders in Mathematics and Science and Technology Education, Washington DC, December 5-8, 1992. Participation was supported by a travel grant from the Education Commission of the States. Held in conjunction with the Annual Meeting of State Coalition Directors.

- Spoke at Dedication Ceremony of the Interactive Mathematics Text Project, Morehouse College, March 13, 1992.

- Spoke at Opening Session of PROJECT '92 conference, Columbus, GA, January 1992.

- Participant at the National Conference of Leaders in Mathematics and Science Education, Washington, DC, November 14-17, 1991. Participation supported by NSF and the Education Commission of the States.

- Participant at Governor's Conference on Education, Atlanta, October 18-20, 1991.

- Participant at the National Summit on Mathematics Assessment, Washington, DC, April 23-24, 1991.

- Participant in MSEB State Coalition Project Directors meeting, Little Rock, February 7-10, 1991; presenter on panel "Selecting goals and activities for a state coalition".

- Participant in MAA mini-course "A Survey of Educational Software", given in conjunction with the American Math Society national meeting, San Francisco, California, January, 1991.

- Participant in conference "Leading Mathematics Education into the 21<sup>st</sup> Century", Atlanta,

February 20-22, 1990.

- Participant in MSEB State Coalition Project Directors meeting, Denver, February 9-10, 1990.
- Participant at the MS 2000 Conference "Mathematical Sciences: Servant to Other Disciplines", U. of Maryland, October 1989.
- Organized and chaired the Georgia Mathematics Umbrella Conference, Macon, May 6-7, 1989.
- Participant at the National Colloquium "Calculus for a New Century", October 28-29, 1988, Washington, DC.
- Discussant on panel "Rethinking the Teaching of Calculus", faculty development portion of Regents' Academic Committee on Mathematical Subjects, Augusta College, April 23, 1987.
- Participant in Conference on In-service in Science and Mathematics, U of Georgia, September 10-12, 1986.
- Discussant on panel "Discrete Mathematics in the Mathematics and Computer Science Curricula", faculty development portion of the Regents' Academic Committee on Mathematical Subjects, Kennesaw College, April 3, 1986.
- Participant in MAA mini-course "Programmable calculators in calculus and precalculus", given in conjunction with the American Math Society national meeting, San Antonio, Texas, January, 1979.
- Participant in NSF LOCI Project Directors meeting, Detroit, July 1979.
- Participant in NSF Chautauqua-type short course "Patterns of problem solving", U of Georgia, October 1978, and March 1979.
- Attended Conference on Number Theory, Miami U, Oxford, Ohio, October, 1977.
- Attended Conference on Recreational Mathematics, Miami U, Oxford, Ohio, October, 1976.
- Participant in the NSF/CBMS Summer Institute (on algebra), American U, Washington, DC, June 1971.
- Attended Algebra Conference, Appalachian State U, Boone, NC, August 1968.
- Participant in NSF Summer Institute "Algebraic number theory and class field theory", Bowdoin College, Brunswick, Maine, June-July, 1966.

C. Grants received.

- Received a GSU Faculty Service Committee Grant to support participation in MAA/AMS Joint Meetings in San Diego, January 2008.
- Received a GSU Faculty Service Committee Grant to support participation in MAA/AMS Joint Meetings in New Orleans, January 2007.
- Co-PI on successful Georgia Southern University ASPIRES proposal to STEP program at NSF, Spring 2006.
- Received a GSU Faculty Service Committee Grant to support participation in MAA/AMS Joint Meetings in San Antonio, January 2006.
- Received a GSU Faculty Service Committee Grant and a GSU Faculty Development Committee Grant to support participation in MAA/AMS Joint Meetings in Atlanta, January 2005.
- Project Director, NASA Sustainability Grant to GCSTME for NASA Explorer School Bunche Middle School, Atlanta, (2004-06); \$20,000 + \$43,000 matching.
- Received a GSU Faculty Service Committee Grant to support participation in MAA/AMS Joint Meetings in Phoenix, January 2004.
- Received a GSU Graduate Faculty Travel Grant to support participation in MAA Southeastern Section Meeting in Clemson, SC, March 2003.
- Received a GSU Faculty Service Committee Grant and a GSU Faculty Development Committee Grant to support participation in MAA/AMS Joint Meetings in Baltimore, January 2003.
- Received a GSU Graduate Faculty Travel Grant to support participation in MAA Southeastern Section Meeting in Atlanta, GA, March 2002.
- Received a GSU Faculty Service Committee Grant to support participation in MAA/AMS Joint Meetings in San Diego, January 2002.
- Received a GSU Graduate Faculty Travel Grant to support participation in MAA Southeastern Section Meeting in Montgomery, AL, March 2001.
- Received a GSU Faculty Development Committee Grant to support participation in MAA/AMS Joint Meetings in New Orleans, January 2001.
- Received a GSU Graduate Faculty Travel Grant to support participation in MAA Southeastern Section Meeting in Charlotte, NC, March 2000.
- Received a GSU Faculty Service Committee Grant to support participation in MAA/AMS Joint Meetings in Washington, January 2000.
- Received a GSU Faculty Development Travel Grant and a GSU Graduate Faculty Travel

Grant to support participation in MAA/AMS Joint Meetings in San Antonio, January 1999.

- Received a GSU Graduate Faculty Travel Grant to support participation in MAA Southeastern Section meeting, College of Charleston, Charleston, SC, March 1998.
- Received a GSU Faculty Service Committee Grant to support participation in MAA/AMS Joint Meetings in Baltimore, January 1998.
- Received a GSU Graduate Faculty Travel Grant to support participation in MAA Southeastern Section meeting, Georgia Tech & Spelman College, Atlanta, March 1997.
- Received a GSU Faculty Development Travel Grant to support participation in MAA/AMS Joint Meetings in San Diego, January 1997.
- Received a \$10,000 grant from the Exxon Education Foundation (via the MAA) to conduct Project SE-NExT, a local (Southeastern Section) version of Project NExT during 1996-8.
- Received a GSU Graduate Faculty Travel Grant to support participation in MAA Southeastern Section meeting, UAH, Huntsville, Alabama, April 1996.
- Received a GSU Faculty Service Grant to support participation in MAA/AMS Joint Meetings in Orlando, January 1996.
- Received a GSU Graduate Faculty Travel Grant to support participation in MAA Southeastern Section meeting, UNC-Asheville, Asheville, NC, April 1995.
- Received a GSU Faculty Development Travel Grant to support participation in MAA/AMS Joint Meetings in San Francisco, January 1995.
- Received (with Professor Norman Wells) a grant from the Georgia Distance Learning and Telemedicine Board to conduct graphics calculator workshop via distance learning for Advanced Placement Calculus teachers, August 1994.
- Received a GSU Faculty Service Committee Travel Grant to support participation in MAA Summer MathFest, Minneapolis, August 1994.
- Received a GSU Graduate Faculty Travel Grant to support participation in MAA Southeastern Section meeting, Carson Newman College, Jefferson City, Tennessee, April 1994.
- Eisenhower Mathematics and Science Education Improvement Program, Higher Education Grant through the University of Georgia: awarded \$22,500 in support of the Georgia Coalition for Science, Technology and Mathematics Education (GCSTME) for 1994-5.
- Received a GSU Graduate Faculty Travel Grant to support participation in MAA Southeastern Section meeting, Coastal Carolina College, Myrtle Beach, April 1993.
- Eisenhower Mathematics and Science Education Improvement Program, Higher Education Grant through the University of Georgia: awarded \$18,500 in support of the Georgia Coalition

for Excellence in Mathematics Education (GCEME) for 1993-4.

- Eisenhower Mathematics and Science Education Improvement Program, Demonstration and Exemplary Projects through the Georgia Department of Education: awarded \$10,000 to support GCEME in 1993-4.

- Received a GSU Faculty Development Travel Grant to support participation in MAA/AMS national meeting, San Antonio, January 1993.

- Received a GSU Graduate Faculty Travel Grant to support participation in MAA Southeastern Section meeting, Kennesaw State College, April 1992.

- Exxon Education Foundation: awarded \$15,000 in support of the Georgia Coalition for Excellence in Mathematics Education (GCEME) for 1992.

- Eisenhower Mathematics and Science Education Improvement Program, Higher Education Grant through the University of Georgia: awarded \$8,800 in support of the Georgia Coalition for Excellence in Mathematics Education (GCEME) for 1992.

- Received a GSU Graduate Faculty Travel Grant to support participation in National Summit on Mathematics Assessment, Washington, DC, April 23-24, 1991.

- Received a GSU Faculty Development Travel Grant to support attendance at the AMS/MAA national meeting, San Francisco, CA, January 1991.

- Eisenhower Mathematics and Science Education Improvement Program, Demonstration and Exemplary Projects through the Georgia Department of Education: awarded \$13,378 to support GCEME in 1991.

- Georgia Power Foundation: awarded \$10,000 to support the Georgia Coalition for Excellence in Mathematics Education for 1991.

- Eisenhower Mathematics and Science Education Improvement Program, Higher Education Grant through the University of Georgia: awarded \$10,000 to support GCEME for 1991.

- Eisenhower Mathematics and Science Education Improvement Program, Demonstration and Exemplary Projects through the Georgia Department of Education: awarded \$13,870 to support GCEME in 1990.

- Mathematical Sciences Education Board, Washington, DC: awarded \$10,000 planning year grant to develop the Georgia Mathematics Coalition, 1989-90.

- With Professor Norman Wells, received \$2,500 from the Special Funding Initiative via the Georgia Southern Teacher Education Center to develop a mathematics speakers bureau and organize mathematics colloquia; October, 1989.

- Received \$3,500 from the Georgia Department of Education to organize and hold the Georgia Mathematics Umbrella Conference in Macon, May, 1989.



- Received a GSC Faculty Development Travel Grant to support participation in the conference "Calculus for a New Century", Washington, DC, October 28-29, 1987.

- Received a GSC Faculty Development Summer Sabbatical Grant in 1984; the project supported was the development of a text for Mathematics 320, Sets and Set Operations.

- In 1980, received, with Professor Arthur Sparks, a grant from the National Science Foundation Local Course Improvement Program. Its purposes were to develop a new course "Patterns of Problem Solving " for mathematics and science teachers, and to develop instructional modules on problem solving to be used in several existing mathematics courses.

In conjunction with this LOCI project, we received a GSC Faculty Development grant to defray part of the cost of preparing the problem solving modules for testing.

#### D. Roles in professional organizations.

- The Georgia Coalition for Excellence in Mathematics Education (GCEME):  
Member of organizing committee; Executive Director (1989-90-91-92-93).
- The Georgia Coalition for Science, Technology and Mathematics Education (GCSTME):  
Member of organizing committee; Executive Director (1993-94-95; 2005 - present);  
member of Mathematics Council (1993-2004);  
Executive Committee 1993-2004; Vice-President 1997-2002, President, 2003-7  
Project Director, NASA Sustainability Grant to GCSTME for Bunche Middle School, Atlanta, (2004-06).
- The National Alliance of State Science and Mathematics Coalitions (NASSMC):  
Member of organizing committee;  
Vice-President and member of Executive Committee (1994-97);  
Represent NASSMC on the CBMS Educational Partnership 1996-97;  
Member of "Services to Coalitions" Committee, 1997-8  
Member of Nominations Committee (2006).
- PRISM (Georgia's Partnership for Reform in Science and Mathematics): Georgia's NSF-sponsored Math/Science Partnership  
Member of East Central Region Regional Coordinating Council (RCC)  
Participant in PRISM' NSF Critical Site Visit, Marietta, June 23-24, 2004  
Participant in PRISM/USG/DOE GPS Conference, Tifton, March 31-April 1, 2005  
Participant in PRISM Faculty Institute, Savannah, February 25-26, 2005  
Participant in PRISM Institute, Atlanta, October 10-11, 2004  
Participant in PRISM Leadership Institute, Statesboro, September 17, 2004  
Participant in PRISM RCC Planning Retreat, Atlanta, September 9-10, 2004  
Participant in PRISM Faculty Institute, Atlanta, April 23-24, 2004
- Mathematical Association of America (MAA):  
National:

Nominee for President-Elect (2007);  
 Board of Governors 1994-1997, 1997-2000, 2000-2003, 2008-2012;  
 MAA Executive Committee 1997-2000, 2000-2003;  
 Member of Nominations Committee, 2000-2001, 2002-2003 (Chair) and 2009-2012;  
 Member of Joint Advisory Board for Focus and MAA OnLine 1997-2000, 2000-2003;  
 Member of MAA Committee on Sections 1994-2003;  
 Chair, MAA Council on Members and Communities, 2008-2012;  
 Member, MAA Committee on Councils and Committees, 2008-2012;  
 Chair of MAA Committee on Sections 1997-2000 and 2000-2003;  
 Chair, MAA Committee on Departmental Liaisons, 2003-2006;  
 Chair, MAA Sub Committee on Early Career Mathematicians, 2006-2009;  
 Chair, MAA Committee on Polya Lecturers, 2003-2004;  
 Member, MAA Committee on Mathematicians in Business, Industry and Government (2013-present);  
 Member, MAA Committee on Dolciani Award, 2013 – 2015;  
 Member, Alder Awards Committee (2003-2007);  
 Member of Committee on SIGMAAs (Special Interest Groups);  
 Member of 2003 Summer MathFest Program Committee;  
 Member of 1997 Summer MathFest Program Committee;  
 Member of Project NExT Advisory Panel 1993-2001;  
 Member of MAA Coordinating Council on Awards;  
 Member of MAA Development Committee;  
 Member of MAA Search Committee for Executive Director;  
 Member of MAA Committee on Association Software;  
 Member of MAA Search Committee for Director of Member Services;  
 Member of MAA Strategic Planning Design Team (2004-05);  
 Member of MAA Strategic Planning Working Group on Governance (2006-07);

MAA Southeastern Section:

Chair, Committee on Meritorious Service Award, 2013;  
 Selected as Beginning Faculty Activities Coordinator, 2006-2009;  
 Recipient of MAA Southeastern Section Distinguished Service Award, 1998;  
 Governor, Southeastern Section 1994-97;  
 Chair, MAA Southeastern Section, April 1991-93; Past-Chair 1993-94;  
 Chair-Elect, MAA Southeastern Section, 1990-91;  
 Project Director, SE-NExT 1996-98 (with continuing involvement);  
 State Director for Georgia, MAA Southeastern Section, 1988-89 and 1989-90;  
 Editor of the Newsletter of the Southeastern Section of the MAA, 1983-88;  
 Committee to Select Distinguished Service Award recipient (several times);  
 Teaching Award Committee (chair);  
 Nominations Committee (several times);  
 MAA GSC departmental representative, 1980-1990;  
 Faculty advisor for GSU MAA Student Chapter (several years);  
 Liaison between MAA & Regents' Academic Committee on Mathematics.

- Mathematical Sciences Education Board:  
 Member of Panel on State Coalitions

- National Council of Teachers of Mathematics (NCTM).
- Georgia Council of Teachers of Mathematics (GCTM):
  - Recipient of John Neff Award for Service, 2005;
  - Recipient of Gladys M. Thomason Award for Distinguished Service, 1993;
  - Member, Gladys M. Thomason Award Selection Committee 1994 - 2006;
  - Southeastern Region nominee for Gladys Thomason Award, 1988-89-90-91;
  - Member, Georgia Mathematics Conference Program Committee 1999 & 2005;
  - Contribute articles on Coalition activities for "Reflections";
  - Vice-president of Southeastern Region, 1987-89;
  - Organizing Committee for Regional meeting, February 1989;
  - State tournament committee;
  - Relations with industry committee;
  - Educational Materials Committee for national meeting in Atlanta.
- American Mathematical Society
- Canadian Mathematical Society.
- School Science and Mathematics Association
- Fibonacci Association
- Sigma XI, the Scientific Research Society:
  - President, GSC Club, 1990-91;
  - President-elect, GSC Club, 1989-90;
  - Secretary-Treasurer, GSC Club, 1987-89.
- American Mathematical Association of Two Year Colleges (AMATYC)
- Georgia Mathematical Association of Two Year Colleges (GMATYC)
- American Association of University Professors:
  - One term on executive committee of GSC Chapter;
  - Member, Nominating committee, 2000.

#### E. Workshops conducted

- SMOC (Science and Mathematics in the Outdoor Classroom) class for teachers, Georgia Southern, Summer 2004.
- Organizer and presenter in 1997-8-9-00-01 workshops for Project SE-NExT Fellows.
- Organized and conducted 1996 workshops for Project SE-NExT Fellows, Huntsville (March) and Chattanooga (October).

- Mathematics consultant for Project SENSE science kit workshops for elementary and middle grades teachers, GSU, 1992.
- Conducted workshop on problem solving for teachers at Southeast Bulloch (Georgia) High School, March 13, 1989.
- Conducted workshop on problem solving for teachers at Swainsboro (Georgia) High School, September 1986.
- Conducted workshop on problem solving for teachers of Thomasville (Georgia) City Schools, October - November 1985.
- Consultant (with Professor Malcolm Smith) for Professor John Van Deusen's Project STAY, Shuman Middle School, Savannah, Georgia, Spring, 1979.

#### F. Other precollege activities

- Member of Georgia Department of Education Review Committee for Secondary Mathematics Georgia Performance Standards (GPS), 2004-2005.
- U. Georgia Partnership for Excellence in Education: mathematics/science representative on the GPEE National Education Goals Panel (1993-94-95-96-97).
- U. S. Science Scholars Program, Georgia Nominating Committee, 1992-94.
- Representing GCEME, helped design and implement the Ideal Mathematics Learning Environment project (IMLE) at East Coweta High School, Newnan, Georgia, 1991-92-93.
- Have presented mathematical talks to classes at Statesboro High School and Bulloch Academy.
- “Assistant coach” with several Math Counts team at William James Middle School and Statesboro High School Math Team (1994-2003).
- Have given computer demonstration to public school classes.
- Judge at First District Science and Mathematics Fair, Savannah, February 18, 1987.
- Spoke at Career Day, Statesboro High School, April 1986.

#### G. Other professional activities

- Directed undergraduate research project, “the  $3x+1$  Problem mod  $m$ ”, Micah Jackson, Fall 2103 – Spring 2014;
- Member of M. S. Thesis Committee for Jeff Taylor, “Linearly Independent Vectors and Their Applications”, Georgia Southern University, December 2006.

- Member/Director of M. S. Thesis Committee for Ena Salter, “Fibonacci Vectors”, University of South Florida, Summer 2005.
- Directed undergraduate research project, “Fibonacci Vectors”, Ena Salter, Spring 2003.
- Participant in Standards-based Teacher Education (STEP) Project, GSU College of Education, Summer, 2001.
- Reviewed Collaborative Proposals for the Louisiana State Systemic Initiative (LaSIP), June 21-24, 1995 and May 2002.
- Member of Doctoral Committee for Steve Garrison, GSU, 2000-1. Dissertation: "Disseminating Dis-information: The Politics of the Media" (never completed).
- Member of Doctoral Committee for Lynn Futch, GSU, 1995-96. Dissertation: "An Examination of Georgia Middle School Teachers' and Principals' Beliefs About the NCTM Standards, Factors Influencing the Change Process, and the Role of Identified Principals During the Mathematics Reform Effort in Georgia".
- Faculty Advisor for Project Top Step -- tutoring project at local elementary schools.
- Member of Susie Zakraisek’s Intern Committee (Criminal Justice major and BHP Scholar, interning at Statesboro Police Department) -- Summer & Fall ‘92.
- Coach of GSC Mathematics Team, Mercer University's Collegiate Mathematics Tournament, spring, 1989.
- Participant in the University System of Georgia Computer Science Institute:  
First year: August, 1984 -- February, 1985;  
Second year: July, 1985 -- March, 1986.
- Directed M. S. thesis "The Jordan Canonical Form", Richard A. Freeman, GSC, 1972.
- Referee for the Pi Mu Epsilon Journal and the American Mathematical Monthly.
- Reviewed several textbook manuscripts for two publishing companies.

#### H. Community involvement

- Member of Pittman Park United Methodist Church (two terms on Administrative Board; various committees; Chair of computer committee).
- Member of Bulloch Association for Retarded Citizens (one term as President).
- Member of GSC Faculty Club ( one term as Treasurer).

- Board of Directors of Project CHANCE.
- Bulloch Supporters of the Gifted (two terms as Treasurer).
- Statesboro Academic Boosters Club.