

William E. Fitzgibbon, III

Personal:

Marital Status: Married to Jan Brooks Fitzgibbon
Children: William E. Fitzgibbon, IV (Nashville, Tennessee)

Contact Information:

College of Technology, University of Houston
Houston, Texas 77204-4021
Phone: (713) 743 3465
email: fitz@uh.edu

Degrees:

BA, Vanderbilt University, 1968
PhD, Vanderbilt University, 1972

Administrative Positions:

Dean, College of Technology, Summer 2006-
Interim Dean, College of Technology, Summer 2003-Spring 2006
Director, Center for Technology Literacy 2005-
Chair, Department of Mathematics, Fall 1999-Summer 2003
Interim co-Head Department, Department of Computer Science, Spring 2000-Fall 2001
President, University of Houston Faculty Senate, 1999-2000

Faculty and Scientific Positions:

Assistant Professor, University of Houston, 1972-75
Associate Professor, University of Houston, 1975-81
Visiting Associate Professor, University of California, San Diego, Winter, Spring 1980, 1980-81
Summer Faculty Research Participant, Argonne National Laboratory, Summer 1980
Professor of Mathematics, University of Houston, 1981-
Visiting Professor, University of Bordeaux I, Spring 1996, Summers 1999, 2002
Visiting Professor, University of Bordeaux II, Spring 1996, Summer 2002
Professor of Engineering Technology and Mathematics, 2004-

Fields:

Partial and Ordinary differential equations, applied mathematics, mathematical biology

Organizations:

American Mathematical Society, Society for Industrial and Applied Mathematics, American Society for Engineering Education, Society of Mathematical Biology, Irish Mathematical Society, Keck Center for Computational Biology (a consortium of UH, Rice, Baylor College of Medicine), American Society of Engineering Education, Houston World Affairs Council, Technology Executive Club Houston, Houston Petroleum Club

Honors:

Grand Marshall, University of Houston Commencement, 1999
Omicron Delta Kappa, Sigma Xi, Phi Kappa Phi, Phi Beta Delta, Pi Mu Epsilon, Tau Alpha Pi NASA
Traineeship, Vanderbilt University, 1968-1972
Academic Merit Scholarships, Vanderbilt University, 1963-1967

Service:

President's Cabinet, University of Houston, 1999-2000

University of Houston System Executive Group, 1999-2001

United Faculties Executive Committee, University of Houston System, 1998-2000

Chair, University of Houston Committee on Committees, 2000-2001

Co-chair (with Jacques Periaux), Organizing and Scientific Committees,
Computational Science for the 21st Century, Tours, France, May 5-7, 1997

Manager, US-Europe High Velocity Flow Field Database Project (US Side), 1992

Co-Chair, (with M.F. Wheeler), Society for Industrial and Applied Mathematics Conference on
Mathematical and Computational Science of Geophysical Fluid and Solid Mechanics, Fall 1989

Chair, International Conference on Mathematical, Statistical and Computational Methods in Petroleum
Exploration and Extraction – Society for Industrial and Applied Mathematics, Spring 1985.

Advisory Board of Directors, Houston Technology Center,
(an accelerator for technology companies), 2004-

Houston Area Working Group on Biotechnology, 2004-2006

Director, Engineering Technology Council of the American Society
for Engineering Education, 2006-

Board of Advisors, Abramson Family Center for the Future of Health
(a cooperative venture of the University of Houston and the Methodist Hospital)

Honorary Editorial Board of *Infectious Disease: Research and Treatment*, 2008

Board of Directors (Vice Chairman), International Association of Journals and Conferences

Other Professional Activities:

Director (with H.F. Walker), NSF-CBMS Conference on Nonlinear Diffusion,
University of Houston, 1976

Director (with R.A. Tapia and M.F. Wheeler), Texas Conference on Numerical Analysis and
Approximation Theory, University of Houston, 1979

Organizing Committee, SIAM National Meeting, Houston, Texas, November, 1980

Organizing Committee, SIAM National Meeting, Houston, Texas, November, 1980

Organizing Committee, Texas P.D.E. Conference, San Marcos, Texas. Spring, 1984

Co-organizer (with M.F. Wheeler), Houston Area Seminar on Energy Related Mathematics, 1982-1984

Secretary, SIAM Texas Oklahoma, Section 1984-1986

Co-organizer (with B. L. Keyfitz), Texas Differential Equations Conference, Houston, 1985

Organizer, SIAM - Texas Oklahoma Regional Meeting, 1985

Co-Organizer (with G. Auchmuty), Texas Partial Differential Equations Conference, Houston, 1989

Co-Organizer (with B.L. Keyfitz), Houston Partial Differential Equations Seminar, 1988

Co-Organizer (with M.F. Wheeler) Houston Area Seminar on Energy Related and Environmental Mathematics, 1990-1991

Organizing Committee, University of Houston Conference on Medicine in Space and the Environment in Honor of J.L. Lions and G. Martchuk, 1992

Co-Organizer (with J. Morgan), AMS Special Session on Reaction Diffusion Systems, College Station, Texas, Fall 1993.

Co-Organizer (with J. Morgan), A Workshop on Reaction Diffusion Systems, TAMU, Fall 1993

Co-Organizing Committee, USHVDB Conference and Workshop, 1993-

Organizer Special Session of Reaction Diffusion Equations, IMACS14, Atlanta, Georgia, Spring 1994

Organizing Committee, 4th International Conference on Mathematical Population Biology, Houston, Texas, May 1995

Special Session on Reaction Diffusion Systems, 4th International Conference on Mathematical Populations, Biology, Houston, Texas, May 1995

Organizing Committee, Third SIAM Conference on Mathematical and Computational Issues in the Geosciences, San Antonio, February, 1995

Organizer, Minisymposium on Reaction Diffusion, Third SIAM Conference on Mathematical and Computational Issues in the Geosciences, San Antonio, February, 1995

SIAM - Society of Mathematical Biology Liaison Committee. Organizer, Houston Seminar on Mathematical Biology, 1994

Organizing Committee, Fourth SIAM International Conference on Mathematical and Computational Issues in Geoscience, Albuquerque, New Mexico, Spring 1997

Organizing Committee, 5th International Conference on Mathematical Population Biology, Zakopane, Poland, and June 1998

Co-Organizer (J. Periaux), International Conference Computational Science of the 21st Century Conference honoring the Occasion of the 60th Birthday of Roland Glowinski, Tours, France, April 1997

Organizing Committee, International Conference in Medical and Health Sciences, Vanderbilt University, May 28-31, 1997

Scientific Organizing Committee, First Europe-US High Speed Flow Field Database Workshop, Part II, Italian Aerospace Research Center, Naples, Italy, November 12-14, 1997

Organizer, International Workshop on Spatially Heterogeneous Problems in Ecology and Epidemiology: Mathematical Models vs. Polluted Environment Data, Zakopane, Poland, June 1998

Co-organizer (with Y. Kuznetsov), Mini Conference Honoring the Occasion of the 60th Birthday of Roland Glowinski, Houston, 1997

Co-Chair of Organizing Committee, First Europe-US High Speed Flow Field Database Workshop, Italian Aerospace Research Center Naples, Italy, November 1997

Co-Chair International Workshop on Spatially Heterogeneous Problems in Ecology and Epidemiology: Mathematical Models vs. Polluted Environment Data, Zakopane, Poland, June 1997

Organizing Committee, 5th International conference on Mathematical Population Biology, Zakopane, Poland, June 1998

Organizer (with M. Langlais), Special Session of Diffusion Models, 1st International Conference on Mathematical Ecology, Madrid, Fall 1998

Chair, University School Partnerships: Towards Defining an Optimal Symbiosis, University Scholarship and Community Conference, October 6, 1999

Organizing Committee, Conference honoring the 70th Birthday of J. L. Lions, Houston, Fall 1999
Co-Chair Organizing Committee, SIAM Southwestern Regional Mathematics in Industry Conference, April 2001

Advisory Committee, West East High Speed Flow Field Workshop 2002, Marseilles, France 2002

Congressional Lobbying on Questions of Science Policy for Coalition for National Science Funding, March 2002

Steering Committee, "Conference on Numerical Methods for Scientific Computing," Jyvaskyla, Finland, June 14-15, 2002

Mentor: Association for Women in Mathematics, 1999-

International Corresponding Committee, ECCOMAS 2004, Jyvaskyla, Finland, July 24-28

Co-Chair (with Jorge X. Velasco-Hernandez), Special Session on Distributed Parameter Models in Biology, Joint Meeting of the American Mathematical Society and the Mathematical Society of Mexico, Houston, Texas, May 2004

Co-Organizer (with E. Barbieri), Engineering Technology Leadership Institute Conference, League City Texas, October 2004

Advisory Committee, West East High Speed Flow Field Conference (W.E.H.S.F.F), Beijing, China, October 27-29, 2004

International Corresponding Committee, ECCOMAS 2004, Jyväskylä, Finland
Congressional Lobbying, Hill Day for MEP Program, Spring 2006

Organizing Committee: French –Finnish Seminar on “Numerical Analysis and Scientific Computing with PDE’s and their Challenging Applications, Helsinki, Finland, October 5-7, 2005

Organizing Committee: Conference on ADI Methods, Honoring J. Douglas, D. Peaceman, and J Rachford, Houston, Texas, November 2005

Scientific Committee (Computational Methods in the Life Sciences), European Conference on Computational Fluid Dynamics, Egmond an Zee, the Netherlands, September 2006

Congressional Lobbying, Hill Day for MEP Program, Spring 2007

Co-Organizer (Y. Kuznetsov and R. Hoppe), Conference Honoring the Occasion of the 60th Birthday of Roland Glowinski, Houston, Texas April 2007

Co-Chair (with Jorge Velasco Hernandez), Special Session on Mathematical Problems of the Energy Industry, Joint American Mathematical Society-Sociedad Matematica Mexicana International Meeting, Zacatecas, Mexico, Summer 2007

Organizing Committee, West East Conference on High Speed Flow Fields, Moscow, Fall 2007

Board of Advisors, Institute for Space Systems Operations

Certificate of Training, CGMP Training Seminar in Biotechnology and Pharmaceutical Industries, UMBC, Maryland

Council for Advancement and Support of Education Workshop, Development for Deans , Baltimore, Maryland, October 26-28, 2006

Comite d’Honneur Pour La Remise de l’Epee d’Academicien á Roland Glowinski, École Polytechnic, le 28 Juin 2006

Board of Advisors: Houston Technology Museum, 2007-

Departmental, College, and University Activities:

Curriculum Committee, 1972-73

Chairman, Statistics Subcommittee, Spring 1973

Chair, Arts and Sciences Statistics Committee, 1973-74
Colloquium Chairman, Department of Mathematics, 1974-80, 1981-1984
Ad hoc Committee Mathematical Sciences, Department of Mathematics, 1975
University of Houston Health Professions Advisory Committee, 1976-80
University of Houston Faculty Senate, 1977-80, 1996-2001
Faculty Advisor, Pi Mu Epsilon, 1975-80
Mathematics Department Executive Committee, 1978-79, 1981-1999
Mathematics Department Recruiting Committee, 1978-79
Mathematics Department Calculus Revision Committee, 1978-79, 1989
Faculty Affairs Committee of Faculty Senate, 1979-80
Faculty Benefits Committee, 1979-80
Chair: Special Year of Concentration Committee, Department of Mathematics, 1981
Mathematics Department Graduate Studies Committee, 1986-89
Merit Review Committee, Mathematics Department 1988-89, 1993-1994
Policy Committee, College of Natural Science and Mathematics, 1989-91
Chair, Promotion and Tenure Committee, Mathematics Department, 1989—
Chair, Policy Committee, College of Natural Sciences and Mathematics, 1990-91
Merit Review Committee, Mathematics Department 1993-1994
College of Natural Science and Mathematics Faculty Development Leave Committee, 1994-96
Environmental Studies Committee NSM, 1994
Chair Coalition for Excellence, University of Houston, 1994
Grievance Committee, Title IX, University of Houston XI
Executive Committee, Department of Mathematics, 1975-1980, 1982-1999
Chair Policy Committee (Promotion and Tenure) College of NSM, 1991-1992
Faculty Development Leave Committee College of Natural Science and Mathematics, 1989-1990
Legislative and Community Affairs Committee, UH Faculty, Senate 1997--
Executive Committee, University of Houston, Faculty Senate, 1998.
Committee on Committees, University of Houston, 1998.
Budget Committee, University of Houston, Faculty Senate, 1998.
University Faculties Executive Committee, University of Houston System, 1998.
Committee on Faculty Affairs, University of Houston, Faculty Senate, 1998.
Committee on Educational Policy, University of Houston, Faculty Senate, 1998.
University of Houston Faculty Senate, 1979-1980, 1997-2001
Legislative and Community Relations Committee,

University of Houston Faculty Senate, 1997
Mathematics Department Committee on Master's Degree in Applied Mathematics, 1998
Planning Committee, UH Research Day, 1999
Organizing Committee, Faculty Participation in UHS Day in Austin
Council of Chairs, 1999-2003
Council of Deans, 2003-
Marshall University of Houston Commencement, 2000
University of Houston Scholarship and Research Award Committees, 1999-2000
Esther Farfel Award Committees, 2000, 2001
Honorary Degree Committees, 2000, 2001, 2002, 2003
Advisory Board Texas Learning and Computation Center, 2001-
Advisory Board Greater Houston Air Quality Modeling Center, 2000-
George Magner Advising Award Committee, 2004
UH Enrollment Management Task Force, 2006-
Chair UH Taskforce on Education Needs for the Port Industries of the Western Gulf
UH Quality Enhancement Project (SACS) Task Force 2007-
UH Unclassified Studies Division Task Force, 2008-

Peer Review

Review Panel, Conference Board of Mathematical Sciences: NSF-CBMS Conference Proposals, Washington, DC, May 1998

Program Review: Mathematics program of the University of St. Thomas, Fall 1998

Review Panel: Collaborative Research Grant Program: Bioinformatics in Epidemiology, Pennsylvania Department of Public Health, ORAU, Spring 2002

Review Panel: Collaborative Research Grant Program: Bioinformatics in Cancer Research, Pennsylvania Department of Public Health, ORAU, Spring 2002

Review Panel: United States Department of Homeland Security Graduate and Undergraduate Fellowships, ORAU, Spring 2003

Review Panel: Idaho State Board of Education, Research Center Grant Program, Spring 2004

Review Panel: Institute of Space Systems Operations, Research Grants Program, Spring 2004

Review Panel, ETA Community Based Jobs Training Program, United States Department of Labor, August 2005

Chair, Information Technology Review Panel, Jyvaszkyla University, Finland, October 2005

Review Panel, United States Department of Homeland Security Graduate and Undergraduate Fellowships, ORAU, Spring 2004

Review Panel, United States Department of Homeland Security Graduate and Undergraduate Fellowships, Spring 2005

Review Panel: Commonwealth of Pennsylvania Collaborative Research Program on Vaccine Development, ORAU, Winter 2007

Review Panel, ASEE/Department of Defense SMART Scholarship for Service, Spring 2007

Review Panel, National Science Foundation Mathematical Biology Panel, Spring 2007
Performance Review: Pennsylvania Performance Review, 07-08, Cycle A

Review Panel, United States Department of Homeland Security Graduate and Undergraduate Fellowships, Winter 2008

Proposal Review:

National Research Council -Army Basic Research Committee, National Science Foundation, National Sciences and Engineering Research Council of Canada, Texas Learning and Computation Center, US Civilian Research and Development Foundation (Russia), US Civilian Research and Development Foundation (Azerbaijan), National Science Foundation of Georgia

Promotion and Tenure Reviews:

California State Polytechnic University, Texas A&M University, Oakland University, University of South Florida, University of Arkansas, University of Texas at Arlington, University of Arkansas, Memphis State University (now University of Memphis), University of Texas MD Anderson Cancer Center, University of Alabama, Vanderbilt University, University of Alabama at Birmingham, University of Tennessee at Chattanooga, Louisiana State University, Tulane University, Southwest Texas State University (now Texas State University), Georgetown University, Virginia Polytechnic and State University, University of St. Thomas, University of Nebraska, Mississippi State University, University of Alabama at Huntsville, Auburn University, Institut National pour Reserche en Informatique and Automatique (France), Weill Cornell Medical College, King Fahd University of Petroleum and Minerals (Saudi Arabia), Pennsylvania State University

Journal Review:

Journal of Nonlinear Analysis, Texas Journal of Science, Houston Journal of Mathematics, Israel Journal of Mathematics, SIAM J. Math. Anal., Transport Theory and Statistical Physics Journal Differential and Integral Equations, Journal of Differential Equations, Proceedings American Mathematical Society, Journal of Mathematical Analysis and Applications, Proceedings London Mathematical Society, Pacific Journal of Mathematics, Transactions of American Mathematical Society, Indian Journal of Pure and Applied Mathematics, Letters in Applied Mathematics Semigroup Forum, Communications in Pure and Applied Mathematics, Journal of Theoretical Biology, Communications in Partial Differential Equations, Elliptic and Parabolic Problems: Rolduc and Gaeta, Mathematical Models in Medicine and the Health Sciences, Differential Equations with Applications to Mathematical Physics, Proceedings of the Royal Society, London

Editorial Review:

Wiley, Mariner Press, Harper and Row, Random House, Goodyear Publishing,
West Publishing, Jones and Barlett, AMS Publishing, D.C. Heath, SIAM Publishing
Board of Advisors, *Dean and Provost*, LRP Publications, 2005-
Honorary Editorial Board: *Infectious Disease: Research and Treatment*

Invited Talks:

“Statistical methods,” Department of Anesthesiology, Baylor College of Medicine, 1973.

“Ordinary differential equations in reflexive Banach space,” Fourth Annual U.S.L. Mathematics Conference, Lafayette, Louisiana, October 27-28, 1973.

Colloquium, Pan American University, 1973.

Colloquium, Memphis State University, 1974.

“Banach Space differential equations,” III Mexico-United States Symposium on Differential Equations at Centre de Investigacion de IPW, Mexico City, January, 1975.

Colloquium, University of Texas at Arlington, 1976-78.

Colloquium, Louisiana State University, 1976.

Colloquium, University of Southern Mississippi, 1976.

International Conference on Ordinary and Partial Differential Equations, Dundee, Scotland, 1975-76.

Colloquium, University of South Florida, 1976.

“Semilinear functional differential equations,” NATO Advanced Study Institute, Liege, Belgium, 1976.

“Abstract semilinear functional differential equations,” Midwest Conference on Differential Equations, Carbondale, Illinois, 1976.

“Abstract functional differential equations” Seventh Annual U.S.L. Mathematics Conference, Lafayette, Louisiana, 1976.

“Delay equations of parabolic type,” Symposium on Nonlinear Equations in Abstract Spaces, University of Texas at Arlington, 1976.

Colloquium, Pan American University, 1977.

Colloquium, Oakland University, 1977.

“Product integral representation of semilinear Volterra equations with delay,” International Conference on Applied Nonlinear Analysis, University of Texas at Arlington, April 1978.

“Semilinear Volterra integrodifferential equations in abstract spaces,” NSF-CBMS Conference in non-linear analysis and nonlinear partial differential equations,” Colorado State University, Fort Collins, August 1978.

Tenth Annual U.S.L. Mathematics Conference, University of Southwestern Louisiana, Lafayette Louisiana, Fall 1979.

Colloquium, Department of Mathematics, California Polytechnic Institute, San Luis Obispo California, Spring 1980.

International Conference on Nonlinear Phenomena, University of Texas at Arlington, Arlington, Texas Summer 1980.

Colloquium, University of Alabama, Tuscaloosa, Alabama, Fall 1980.

Colloquium, University of Houston, Houston, Texas, Fall 1980.

Colloquium, Southwest Texas State University, San Marcos, Texas, Fall 1980.
Applied Analysis Seminar, University of California, San Diego, Spring 1981.

Colloquium, University of Southern California, Los Angeles California, Spring 1981.

Colloquium, Vanderbilt University, Nashville, Tennessee, Fall 1981.

Fifth International Conference on Current Trends in the Theory and Practice of Nonlinear Differential Equations, University of Texas at Arlington, Arlington, Texas, Summer 1982.

Colloquium, Southern Methodist University, Dallas, Texas Fall 1982.

Special Session on Partial Differential Equations, AMS regional meeting, Baton Rouge, Fall 1982.

UAB International Conference on Differential Equations, Birmingham, Alabama, 1983.

International Conference on Applications of Semigroups of Operators, Volksbildungsheim Schloss Retzhof, 1983.

Colloquium, Rice University (Mathematical Sciences), Fall, 1983.

Colloquium, California Polytechnic State University, Spring, 1984.

Sixth International Conference on Current Trends in the Theory and Practice of Nonlinear Differential Equations’, Arlington, Texas, 1984.

Seminar, University of Maryland, 1984.

Colloquium, University of Northern Arizona, Spring 1985.

International conference on Theory and Application of Differential Equations, Edinburg, Texas 1985.

Annual U.S.L. Mathematics Conference, Lafayette, Louisiana, Fall 1985.

International Conference on Differential Equations and Mathematical Physics, Birmingham, Alabama, Spring, 1986.

Workshop on Parabolic Equations and Semigroups, Program on Evolution Equations, Scuola Normale Superiore and University of Pisa, Spring 1987.

“Reaction Diffusion Systems,” Joint Meeting of Southeastern and Midwest Annual Conference on Partial Differential Equations, Vanderbilt University, Fall 1987.

Colloquium, University of Texas - Dallas, Spring 1987.

Seminar, University of Houston Energy Laboratory, Spring 1987.

“Longtime behavior of Solutions to a class of Volterra Integral Equations,” NATO Advanced Study Institute on Infinite Dimensional Systems - Lisbon, Portugal Summer 1986.

“Semilinear Systems of Elliptic Equations,” Second Howard Symposium on Nonlinear Semigroups, Howard University, Summer 1987.

“Some Applications of semigroup theory of systems of hyperbolic partial differential equations,” Conference on Trends in Semigroup Theory and Applications, University of Trieste, Italy, Fall, 1987.

“Steady solutions for certain reaction diffusion systems,” International Conference on Theory and Applications of Partial Differential Equations, Columbus, Ohio, Spring 1988.

Colloquium, Tulane University, Spring 1988.

Colloquium, University of Alabama, Birmingham, Summer 1988.

Annual U.S.L. Mathematics Conference, Fall 1988.

Special Session on Differential and Difference Equations, AMS Regional Meeting, Claremont, California, Fall 1988.

Second International Conference on Mathematical and Population Biology, Rutgers University, Spring 1989.

Differential Equations Conference, NIHE. Dublin, Ireland, 1989.

Functional Analysis Seminar, Mathematisches Institut, Eberhard-Karlas-Universitat, Tubingen, Germany, 1989.

Claremont Differential Equations Conference (in honor of K. Cooke), Harvey Mudd College, 1990.

International Conference on Mathematical Physics and Differential Equations, University of Alabama, Birmingham, 1990.

Colloquium, Worcester Polytechnic Institute, 1990.

Colloquium, University of Houston Downtown, 1990.

Applied Mathematics Seminar, Texas A&M University, 1990.

Seminar, University of Houston, Energy Laboratory, 1990.

Special Session on Nonlinear Boundary Value Problems, AMS regional meeting, Tampa, Florida, 1991.

Colloquium, Louisiana State University, Fall 1991.

Colloquium, University of Tennessee at Chattanooga, Fall 1991.

Colloquium, University of Alabama, Huntsville, Fall 1991.

Colloquium, University of Alabama, Birmingham, Fall 1991.

Georgia Tech - UAB Conference on Differential Equations, Atlanta 1992.

Seminar, University of Alabama, Summer 1992.

International Conference on Mathematical Population Biology, Universite de Pau, France, Summer 1992.

Seminar, Universite de Nancy, Summer 1992.

Seminar, Vanderbilt University, Spring 1993.

Colloquium, University of South Florida, Spring 1993.

“Diffusive Epidemic Models,” First International Conference on Dynamic Systems and Applications, Morehouse University, Atlanta, Georgia, Spring 1993.

Stability for Reaction Diffusion Systems, Symposium on Comparison Methods and Stability Theory, The Fields Institute for Research in Mathematical Sciences, University of Waterloo, Spring 1993.

“Reaction Diffusion Systems,” Evolution Equations Conference, Louisiana State University, Baton Rouge, 1993.

Seminar Universite de Toulouse, Fall 1993.

Colloquium, University of Tennessee at Chattanooga, Spring 1994.

Colloquium, University of Connecticut, Spring 1994.

Colloquium, Worcester Polytechnic Institute, Spring 1994.

Differential Equations Conference in Honor of Stavros Busenberg, Harvey Mudd College, Claremont California, Summer 1994.

Conference on Evolution Equations and Semigroups, Scuola Normale Superiore, Pisa, Italy, Fall 1994.

Colloquium Universite de Bordeaux 2, Fall 1994.

Seminar Vanderbilt University, April 1995.

Conference on Reaction Diffusion Systems, Sponsored by Human Capital and Mobility Programme, Trieste, Italy, Fall 1995.

Colloquium, Case Western Reserve University, Spring 1996.

Colloquium, Mississippi, State University, Spring 1996.

Special Session on Nonlinear partial differential equations, AMS, Regional meeting, Chattanooga, Tennessee.

Colloquium, Universite de Toulouse I, Spring 1996.

Seminar, Institut Henri Cartan, Universite de Nancy, Spring 1996.

Lecture, Colloques de Mathematiques: Population Biology, CIRM, Marseille, Spring 1996.

Colloquium, Universite de Pau, Spring 1996.

Cours Post DEA Universite de Bordeaux I, Spring 1996.

Colloquium, University of Alabama, Birmingham, Summer 1996.

Applied Mathematics Seminar, Texas A & M University, Fall 1996.

AMS Special Session on Partial Differential Equations, AMS Meeting, Memphis, Tennessee, Spring 1997.

Global and Geometric Theory of Delay Differential Equations, Mathematisches Forshchungsinstitut Oberwolfach, June, 1998.

AMS Special Session on Nonlinear Partial Differential Equations (in honor of J. Smoller) Davis, California, April, 1998.

Cours Post DEA, Universite de Bordeaux I, May 1996.

Colloquium, University of Alabama, Summer 1996.

Invited Special Session Speaker, International Conference on Mathematics in the Medical and Health Sciences, Vanderbilt University, May 1997.

Seminar, Dassault Aviation, Summer 1997.

Invited Plenary Speaker, Workshop on Spatially Heterogeneous Problems in Ecology and Epidemiology, Zakopane, Poland, Summer 1998.

Invited Speaker, Conference on the Asymptotic Properties of Evolution Equations and Their Applications, Stefan Banach Center, Warsaw, Poland, 1999.

Invited Lecture, Conference on Functional Differential Equations and Difference Equations, Lisbon, Portugal, July 26-31, 1999.

Colloquium, North Carolina State University, Spring 1999.

Invited Plenary Speaker, DESTOBIO 2000: An International Conference on Mathematical Models on Deterministic Models in Biology, Purdue University, Summer 2000.

Seminar, Scientific Center, Dassault Aviation, Summer 1999.

Colloquium, ISTIL, University of Lyon I, Winter 1999.

Seminar, University of Toulouse I, Summer 1999.

Invited Speaker: Special Session on Mathematical Biology. European Conference on Elliptic and Parabolic Partial Differential Equations, Gaeta, Italy, September 2001.

Colloquium, St. Stephen's College, University of Delhi, Spring 2003.

Colloquium, University of Alabama, Birmingham, March 2004.

Plenary Speaker, Differential Equations Weekend, Mississippi State University, March 2004.

Invited Lecture, Cy-Fair College, Houston, Texas, April 2004.

Invited Speaker: Minisession on Complex Diffusive Systems, Joint MPD 7-DeStoBio 3 Conference: Computational and Mathematical Population Dynamics, Trento, Italy, June 2004.

Invited Speaker: Minisymposium on Computational Methods in the Life Sciences, ECCOMAS 2004, Jyväskylä, Finland, 2004, July 2004.

Invited Speaker: Special Session on Biomathematics, American Mathematical Society Meeting Nashville, Tennessee, October 2004.

Speaker and co-Moderator: Engineering Technology Leadership Institute Special Session on ReEngineering Engineering Technology for Administrators: "The Importance of External Research Funding, League City Texas, October 2004.

Applied Mathematics Seminar, North Carolina State University, Fall 2004.

Invited Speaker: Workshop on Spatial Ecology: Interplay Between Theory and Data, University of Miami, January 2005.

Plenary Speaker, Modeling 2005: The Third IMACS International Conference on Mathematical Modeling and Computational Science in Applied Science and Engineering, Pilsen, Czech Republic, July 4-8, 2005.

Invited Speaker: Advances in Numerical: Symposium to Honor Yuri Kutznetsov, Moscow, September 16-18, 2005.

Invited Speaker, Seminar on Applied Mathematics and Computation, Ivalo, Finland, Spring 2006.

Invited Speaker, Special Session on the Qualitative Behavior of Evolution Equations, American Institute of Mathematical Sciences Conference, Poitiers, France June 25-27, 2006.

Bernard Gordon Conference on Engineering Leadership, Massachusetts Institute of Technology, Summer 2007.

Invited Speaker: Conference on Scientific Computing in Simulation, Optimization and Control in Multidisciplinary Applications, Jyvaskyla University, Jyvaskyla, Finland, Summer 2007.

Invited Speaker: Special Session on Modeling and Simulation, Mississippi State University-University of Alabama at Birmingham Conference on Differential Equations and Applications, Fall 2007.

Invited Speaker. International Conference on Modeling and Simulation honoring Professor Roland Glowinski on the Occasion of his 70th Birthday, Xi'an China, July 2008.

Extended Invitations:

University of South Florida 1976

Mathematisches Institut, Eberhard-Karlas-Universitat, Tubingen, Germany, 1989.

Institut National pour Reserche en Informatique and Automatique (Sophia Antipolis, France)

Universite de Bordeaux II, Spring 1995

Institut Henri Cartan, Universite de Nancy, Spring 1996

Visiting Professor, Universite de Bordeaux, I et II, Summers 1996 and 1999

Moscow State University, Summer 1997

Moscow State University, Winter 1998

Moscow State University, Summer 2000.

St. Stephens College, University of Delhi, Spring 2003

Grants:

Co-Principal Investigator (with H.F. Walker) NSF-CBMS Regional Conference on Non-Linear Diffusion, June-July, 1976 --

Principal Investigator NSF Grant, No. SMI 76-81845

UH-UP Energy Laboratory Grant, 1986

Principal Investigator, NSF Grant DMS 8803151, 1988-89

Co-Principal Investigator, Texas Advanced Research Program Grant #1100, 1988-89 (with M. Golubitsky, D. Luss)

Principal Investigator, ONR Grant N00014-89-J-10011, 1989-90

Principal Investigator, UH-Energy Laboratory Grant, 1988-89

Principal Investigator, UH-Energy Laboratory Grant, 1990-91

Principal Investigator, NSF Grant, DMS 9207064, 1992-94

Principal Investigator, UH-Energy Laboratory Grant, 1994

Principal Investigator, ISSO-UH Grant, 1994.

Principal Investigator (with R. Glowinski), ISSO-UH Grant.

Principal Investigator (with R. Glowinski), DMS Grant 9520899.

Principal Investigator, IMA Grant, Participating Institutions Grant, 1995.

Principal Investigator (with R. Sanders), NASA JSC RUG Grant, 1996-1998

Principal Investigator (with M. Kimmel Rice University) NSF Grant NSF INT 9802770

Principal Investigator, Environmental Institute of Houston, 1998-1999

Principal Investigator, Mathematical Models in Epidemiology and Immunology, PEER

Co-Principal Investigator I NSF DEU Grant, Scholar's Research and Development Grant, 1999-

Principal Investigator, NSF/CNRS Grant DMS 0089590.

Principal Investigator Medical Informatics Training Grant, Rice University, 2001

Principal Investigator Environmental Institute of Houston, 2001

Principal Investigator Environmental Institute of Houston, 2002

Principal Investigator, Congressionally-Directed Grant P116Z020239, US Department of Education, 2003

Principal Investigator, Wagner Peyser Grant-- US Department of Labor (administered and passed through the Texas Workforce Commission), Education and Training Initiative for the Biotechnology Life Sciences Industry Cluster, November 1, 2005-December 31, 2006

Principal Investigator, Texas Education Agency, Educational Excellence for Technology Education, Jan 1, 2005-December 31, 2005

Principal Investigator, University of Texas-Arlington (subcontract on US Department of Commerce, NIST), Texas Manufacturing Assistance Center, 9/01/05-8/31/06

Principal Investigator, University of Texas-Arlington (subcontract on US Department of Commerce, NIST), Texas Manufacturing Assistance Center, 9/01/06-8/31/07

Principal Investigator, University of Texas-Arlington (subcontract on US Department of Commerce, NIST), Texas Manufacturing Assistance Center, 9/01/07-8/31/08

Student Research Supervision:

Gutterman, Paul	“Functional Analytic Techniques for Navier-Stokes Equations” Tutorial, Masters Degree	1978
Bosman, Cheryl L.	“Characterizations of Reflexive Banach Spaces” Senior Honors Thesis	1983
Armand, Primaux	“Systems of Hyperbolic Equations” Tutorial, Masters Degree	1986
Waggoner, Sheila	“Global Extreme of Solutions to Semilinear and Quasilinear Parabolic Systems of Partial Differential Equations” PhD degree	1988
McAdams, Kenneth	“Chaotic Dynamical Systems” Tutorial Masters Degree	1989
Martin, Christopher	“A Class of Quasilinear Reaction Diffusion Systems with Temperature Dependent Kinetics” Ph.D. degree	1994
Patel, Mikul	“Homoclinic Bifurcations” Tutorial, Master Degree	1993
Gross, Kimber	“Population and Epidemiological Models” Tutorial, Masters Degree	1998
Berry, Robert	“Spatio-Temporally Dependent Models for the Spread of Infectious Disease,” PhD degree	2000
Martyenko, Andrey	Numerical Solutions for Advection Diffusion Equations Master’s Tutorial (co directed with Y. Kuznetsov)	2002
Martyenko, Andrey	Numerical Solutions for Advection Diffusion Equations on a Locally Refined Grid (co-directed with Y. Kuznetsov)	2004

Additionally, I have served on numerous Ph.D qualifying and dissertation committees in Mathematics, Computer Science and Engineering, and I have served on juries as a rapporteur for several These d'Etat and Habilitations in France.

Publications:

“Nonlinear Cauchy problems in Banach spaces,” Dissertation, Vanderbilt University, 1972.

- “Time dependent nonlinear Cauchy problems”:, Proc. Amer. Math. Soc. **36** (1972),525-530.
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- ”Approximation of nonlinear evolution equations,” Journal Math. Society, Japan, **25** (1973), 211-221.
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