Richard A. Tapia

Dept. of Computational and Applied Mathematics - MS 134 Rice University 6100 Main St. Houston, Texas 77005-1892 Office: (713) 348-4049 Fax: (713) 348-3679 E-mail: rat@rice.edu

Personal Data:

Birth: March 25, 1938 - Santa Monica, California Wife: Jean Tapia (Married - July 25, 1959) Children: Circee (1960 - 1982) Richard (1968 -) Rebecca (1983 -)

Current Positions:

University Professor, Rice University Maxfield and Oshman Professorship in Engineering, Rice University Adjunct Professor, College of Natural Sciences and Mathematics, University of Houston Director, Alliances for Graduate Education and the Professoriate (AGEP), Rice University Director, Center for Excellence and Equity in Education, Rice University

Education:

Ph.D., University of California, Los Angeles, 1967 (Mathematics)
M.A., University of California, Los Angeles, 1966 (Mathematics)
B.A., University of California, Los Angeles, 1961 (Mathematics)
A.A., Los Angeles Harbor College, Los Angeles, 1958 (Mathematics)

Honors and Awards:

American Mathematical Society Fellow, November (2020)

Harris County Commissioners Court Confirmation for Dr. Richard Tapia's contributions to the Hispanic Heritage of Harris County, Houston, Texas, September (2019)

Outstanding Support of Hispanic Issues in Higher Education Award, American Association of Hispanics in Higher Education, Inc., March (2018)

Honorary Degree, Doctor of Engineering, Science, and Humane Letters, Harvey Mudd College, May (2017)

American Association for the Advancement of Science Public Engagement with Science Award, February (2017)

Honorary Degree, Doctorate of Science, University of Rhode Island, Kingston, RI, May (2016)

College-Level Promotion of Education Award at the 2016 Black Engineer of the Year (BEYA) STEM Conference, February (2016)

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5723 Portal Drive Houston, Texas 77096 (713) 723-3536 Vannevar Bush Award, May (2014)

American Academy of Arts and Sciences, April (2013)

2013 "Man of the Year", League of United Latin American Citizens, February (2013)

Premio Ohtli awarded by the Mexican Consulate, Houston, Texas, September (2012)

Búho Award, The Latino Experience at Rice, a Centennial Gala, Rice University, Houston, Texas, September (2012)

AAAS Fellow, American Association for Advancement of Science, Vancouver, British Columbia February (2012)

National Medal of Science, Washington, DC, September (2011)

Honorary Degree, Doctorate of Science, University of Nevada, Reno, Nevada, December (2010)

Math and Science Hispanic Heritage Award, Hispanic Heritage Foundation, Washington, DC, September (2009)

SIAM Fellow, Society for Industrial and Applied Mathematics Annual Meeting, Denver, Colorado, July (2009)

Richard Tapia 70th Birthday Conference, Rice University, Houston, Texas, May (2009)

Honorary Degree, Doctor of Science, Claremont Graduate University, Claremont, California, May (2008)

Meritorious Service Award, Association of Rice Alumni, Rice University, May (2008)

Gary D. Keller Award, Arizona State University, November (2005)

University Professor, Rice University, Houston, Texas October (2005)

Maxfield and Oshman Professor in Engineering, Rice University, Houston, Texas, October (2005)

50 Most Important Hispanics in Technology and Business, Hispanic Engineer and Information Technology Magazine, April (2005)

Society for Industrial and Applied Mathematics (SIAM) Prize for Distinguished Service to the Profession, Portland, Oregon, July (2004)

Community Service Award, University of California Los Angeles Alumni Association, Los Angeles, California, May (2004)

Honorary Degree, Doctor of Science and Technology, Carnegie Mellon University, Pittsburgh, Pennsylvania, May (2004)

Hispanic Engineer & Information Technology Magazine, "One of the 50 Most Important Hispanics in Technology and Business" April (2004)

Distinguished Public Service Award, American Mathematical Society, Phoenix, Arizona, January (2004)

Original member of the Texas Academy of Science, Engineering and Medicine (TASEM), Inaugural Conference of the Texas Academy of Science, Engineering and Medicine, San Antonio, Texas, January (2004)

Honorary Doctorate Degree in Engineering, Colorado School of Mines, December (2003)

National Atomic Museum Foundation Hispanics in Science in Engineering Exhibit Honoree, Albuquerque, New Mexico, October (2003)

Texas Science Hall of Fame Inductee, Institute of Texan Cultures, University of Texas, San Antonio, Texas, January (2002)

Reginald H. Jones Distinguished Service Award, NACME, Inc., Baltimore, Maryland, October (2001)

Richard Tapia Celebration of Diversity in Computing Symposium, Association for Computing Machinery and IEEE-Computer Society, Houston, Texas, October (2001)

Distinguished Scientist Award, Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) National Conference, Atlanta, Georgia, October (2000)

2000 Peace Award for Education, International Day of Peace, The Spiritual Assembly of the Baha'is of Houston, Houston, Texas, October (2000)

David Blackwell and Richard Tapia Distinguished Lecture Series in the Mathematical and Statistical Sciences, Cornell University, Ithaca, New York, May (2000)

1999 Giants in Science Award, Quality Education for Minorities (QEM) Network, Washington, DC, February (1999)

Commencement address: "The Civic Scientist: Participation in Current National, Societal and Educational Problems," Division of Physical Science, University of California, Los Angeles, California, June (1998)

1997 Lifetime Mentor Award, American Association for the Advancement of Science, Philadelphia, Pennsylvania, February (1998)

Inducted into the Hispanic Engineer National Achievement Awards Conference Hall of Fame (1997)

Hall of Fame Inductee, The Houston Hispanic Forum, Houston, Texas (1997)

Recipient of the Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring, National Science Foundation, Washington, DC, September (1996)

Appointed to the National Science Board by President Clinton, August (1996)

Selected Hispanic Engineer of the Year, by Hispanic Engineer Magazine, Hispanic Engineer National Achievement Awards Conference, Houston, Texas, October (1996)

Educator Achievement Award, National Science Foundation "Diversity in the Scientific and Technological Workforce" Conference, Washington, DC, September (1995)

First recipient of the A. Nico Habermann Award for outstanding contribution to aiding members of underrepresented groups within the computing research community, Computer Research Association, Snowbird, Utah, July (1994)

Selected "Professor of the Year" by the Association of Hispanic School Administrators, Houston Independent School District, Houston, Texas (1994)

National Academy of Engineering, February (1992)

George R. Brown Award for Superior Teaching, Rice University, Houston, Texas (1991)

Noah Harding Professor, Rice University, Houston, Texas (1991)

MAA-SIAM Address: "Interior-Point Methods for Linear Programming: An Overview," Joint Mathematics Meeting, Columbus, Ohio (1990)

Named one of twenty most influential leaders in minority math education by the National Research Council, Washington, DC (1990)

Selected College Level Educator of the Year, by Hispanic Engineer Magazine, Hispanic Engineer National Achievement Awards Conference, Houston, Texas, October (1990)

Centennial Lecture: "The Emergence of Numerical Optimization," SIAM National Meeting, Minneapolis, Minnesota (1988)

First Place in Rice University Student Teacher Evaluations, Houston, Texas (1985)

Listed in Who's Who in America

Listed in Who's Who in the South and Southwest

Listed in Who's Who in American Education

Listed in Who's Who among Hispanic Americans

Listed in American Men and Women of Science

Listed in 2,000 Notable American Men

Biography included in middle schools science textbook Science Connections, Merrill Publishing, 1991

In-depth interview: "Math Education in the Computer Age," Hispanic Engineer, Spring 1991

Featured in Professional, the Quarterly Journal for Hispanics and Black Professionals, Spring 1992

Featured in Houston Post article "Multiple Successes," March 21, 1993

Featured in Saludos Hispanos, April/May 1993

Featured in Sallyport, Rice alumni magazine, October/November 1993

Featured in National Council of Teachers of Mathematics brochure, 1993

Featured in SACNAS (Society for the Advancement of Chicanos and Native Americans in Science) brochure for K-12 teachers, 1994

Featured in Miller Brewing Company calendar "Hispanic Americans in the Sciences - Realizing Visions," January 1995

Featured in NACE (National Association of Colleges and Employers) guidebook of good role models for students thinking about the future and to encourage minorities in their careers, 1996 Minorities Edition, 1995

Featured in interview on "Weeknight Edition," Channel 8, Houston, Texas, April 18, 1996

Featured in Houston Chronicle article "By the Numbers," April 22, 1996

Featured in six-part documentary "Breakthrough: The Changing Face of Science in America," Channel 8, Houston, Texas, April 22, 1996

Featured in Hispanic Engineer Magazine cover article "Rice's Hot Rod Professor," Spring 1996

Featured in Houston Chronicle article "Clinton Taps Rice Prof," October 11, 1996

Featured in Houston Chronicle article "Presidential Award for Rice Professor," October 12, 1996

Featured in interview on "Hola Houston," Channel 26, Houston, Texas, October 27, 1996

Featured in Village News article "Rice Prof Wins Mentoring Award," October 29, 1996

Featured in interview on "The Spirit of Texas, Channel 11 Morning Show," Houston, Texas, October 31, 1996

Featured in interview on "Weeknight Edition," Channel 8, Houston, Texas, October 31, 1996

Featured in Nuestras Vidas Magazine article "More than Math," March 1997

Featured in "Becky Lee's Diary," Channel 11, Houston, Texas, June 14, 1997

Featured in "Hispanic Heritage Month," Channel 11, Houston, Texas, September 16-October 15, 1997

Featured in "Hola Houston," Channel 26, Houston, Texas, October 5, 1997

Featured in "Nuestra Vida" Channel 45, Houston, Texas, October 1997

Featured in Hispanic Engineer Magazine article "Best of the Best Top Hispanics in Technology," February/March 1998

Featured in SACNAS News article "Richard Tapia Wins AAAS Award for Lifetime Achievement," Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) Quarterly Journal, Spring 1998, Vol 2, No 2, pp. 10.

Featured in the Oklahoma State Regents for Higher Education 1998 Summer Academies Role Model brochure and poster for public and private schools, libraries, and home schooling organizations, 1998

Featured in "Hola Houston," Channel 26, Houston, Texas, June 21, 1998

Featured in "Weeknight Edition" Channel 8, Houston, Texas, July 29, 1998

Featured in Hispanic Engineer Magazine article "New Strategies Needed to Challenge Anti-Affirmative Action," June/July 1998

Featured in Hispanic Engineer Magazine article "What's Next After Affirmative Action Dies," June/July 1998

Featured in "Gender Equity in Technology" National Public Radio (NPR) Interview, KUHT, Houston, Texas, August 24, 1998

Featured in <u>Biographical Encyclopedia of Mathematics</u>, Marshall Cavendish, Tarrytown, New York, 1998

Featured in SACNAS News cover article "Hitting the Nation's Scientific Highway with Mathematician Richard Tapia," Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) Quarterly Journal, Fall 1999, Vol. 3, No 3, pp. 20-21.

Featured in Hispanic Outlook Magazine article "A Formula for More Minorities in Math and Science," November 5, 1999

Featured in Math Spans All Dimensions, Math Awareness Month article "Math of Car Racing", April, 2000 http://www.math.brown.edu/~banchoff/MAM2000a/612/index.html

Featured in FOCUS Newsletter of the Mathematical Association of America article "Cornell Honors David Blackwell and Richard Tapia with Lecture Series," August/September 2000, Vol. 20, No 6, p. 4

Featured in "Hispanic Heritage Month," Channel 39, Houston, Texas, September 16-October 15, 2000

Featured in Hispanic Engineer & Information Technology Magazine article "Hispanic Power Hitter," Spring 2002

Featured in Science Magazine, Sidelines, January 31, 2003, Vol. 299, No 5607, p. 659

Featured in Houston Chronicle article "Professor Uses Math to Uncover Flaw in BMX Racing," February 27, 2003

Featured in The Chronicle of Higher Education article "A Race That's About More Than Speed," March 28, 2003, Vol. 49, Issue 29, pg. A12

Featured in Sallyport, Volume 59, No. 3, page 12, Spring

Featured in Rice News article "Mathematician Tapia Earns Honors for Distinguished Public Service," Volume 13, No. 18, January 22, 2004

Featured in AMS News article "Richard Tapia Receives 2004 AMS Award for Distinguished Public Service," January 8, 2004

Featured in Carnegie Mellon News article "Three to Receive Honorary Degrees for Contributions to Science and Technology, and Public Policy," Vol. 14, No. 42, May 13, 2004

Featured in Rice News article "Tapia to Collect Honors for Efforts to Recruit Minority Students in Science, Engineering," Vol. 13, No. 31, April 29, 2004

Featured in UCLA Spotlight article "Richard Tapia, UCLA Alumnus, Rice Faculty," May 17, 2004

Featured in Rice News article "Tapia receives SIAM Prize for Distinguished Service," August 4, 2004

Featured in Rice News article "CAAM's Tapia Named One of Tech's 50 Most Important Hispanics for 2005," April 7, 2005

Featured in Hispanic Engineer & Information Technology Magazine article "The 50 Most Important Hispanics in Technology & Business: Pushing to the Top in American Industry," April 2005

Featured in Rice News article "Rice names Tapia University Professor," Vol. 15, No. 10, October 20, 2005

Featured in Diverse Issues in Higher Education article "On the Move," Vol. 22, No. 20, November 17, 2005

Featured in Berkeley Engineering News article "I'm here and I belong" March 13, 2006

Featured in Houston Chronicle article "Hometown hot rod among stars at O'Reilly AutoRama," November 19, 2006

Featured in Houston Chronicle article "Student Day at AutoRama focuses on engineering," November 11, 2007

Featured in Hispanic Business Magazine article "The 100 Most Influential U.S. Hispanics," October 2008

Appeared on Hola Houston, Fox 26 Network Houston in honor of Hispanic Heritage Month, October 2008

Featured in the Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) Biography Video, September 2009 http://www.caam.rice.edu/~rat/biography.html

Top 10 Movers & Shakers, Hispanic Outlook in Higher Education, January 4, 2010, https://www.wdhstore.com/hispanic/data/pdf/jan4-top10.pdf

Appeared in "Marshland" exhibit by Gaia at the Rice Gallery, Rice University, Houston, Texas, September-December 2013

Featured in AAAS Science Magazine article "Minority voice," by Jeffrey Mervis, June 6, 2014

Featured in Houston Chronicle La Voz article "Es necesario que haya mas minorias en Ciencias: Richard Tapia," by Olivia Tallet, June 8, 2014

Featured in The Chronicle of Higher Education article "You Pay it Forward," by Beth McMurtrie, July 21, 2014

Featured in SIAM News article "Richard Tapia Receives NSB Vannevar Bush Award," by Carlos Castillo-Chavez, July 23, 2014

Featured in KPRC Hispanic Heritage Month Project, Richard Tapia, National Medal of Science and Rice University Professor, October 5, 2018

Selected Activities:

Chair, Department of Mathematical Sciences, Rice University, 1978 - 1983

Associate Director for Minority Affairs, Office of Graduate Studies, Rice University, 1989 - present

Director of Education and Outreach Programs, Center for Research on Parallel Computation, Rice University, 1989 - 2000

Member: Executive Committee, Center for Research on Parallel Computation, Rice University, 1989 - 2000

Member: SIAM Board of Trustees, 1989 - 1992

Member: Strategic Planning Task Force of the American Mathematical Society, 1990 - 1991

Member: Committee on Professional Recognition and Rewards, Joint Policy Board on Mathematics, 1992 - 1994

Member: Mathematical Sciences Education Board, National Research Council, 1992 - 1994

Keynote speaker: "Building the Future," Mathematics 2000, California Coalition for Mathematics, Sacramento, March 1992

Address to fourth and fifth grades: "Our Hispanic Heritage and Science," West University Elementary School, Houston, May 5, 1992

Member: National Academy of Engineering, 1992

Panelist: Duke Graduate School symposium, "The Future of Minorities in American Higher Education," November, 1992

Commencement speaker, Jefferson Davis High School, Houston, June 1994

Member: National Science Board, 1996 - 2002

Session Honoring the 60th Birthday of Professor Richard A. Tapia, 1998 SIAM Annual Meeting, Toronto, Canada, July 1998

Conference Committee Chair, "50 years of Alternating Direction Methods: Honoring the Contributions of Douglas, Peaceman, Rachford" Rice University, Houston, Texas, November 2005

Maxfield and Oshman Professor in Engineering, Rice University, 2005 - present

University Professor, Rice University, 2005 - present

University Positions:

2005 – present	University Professor, Rice University
2005 – present	Maxfield and Oshman Professorship in Engineering, Rice University
2000 - 2006	Director of Education and Outreach Programs, HiPerSoft (Center for High Performance Software Research), Rice University
2000 - 2008	Adjunct Professor, College of Natural Sciences and Mathematics, University of Houston
1999 – 2013	Director, Alliances for Graduate Education and the Professoriate (AGEP), Rice University
1995 – present	Director, Center for Excellence and Equity in Education, Rice University
1991 - 2005	Noah Harding Professor of Computational and Applied Mathematics, Rice University
1989 – present	Associate Director of Minority Affairs, Office of Graduate Studies, Rice University
1989 - 2000	Director of Education and Outreach Programs, Center for Research on Parallel Computation, Rice University
1976 – 1991	Professor of Mathematical Sciences, Rice University
1986 – 1988	Lecturer, Department of Community Medicine, Baylor College of Medicine
1978 – 1983	Adjunct Professor, Texas Institute of Rehabilitation and Research, Baylor College of Medicine
1978 – 1983	Chair, Department of Mathematical Sciences, Rice University
1976 – 1977	Visiting Associate Professor of Operations Research, Stanford University (on leave from Rice)
1972 – 1976	Associate Professor of Mathematical Sciences, Rice University
1970 – 1972	Assistant Professor of Mathematical Sciences, Rice University
1968 – 1970	Assistant Professor, Mathematics Research Center, University of Wisconsin

1967 – 1968 Instructor in Mathematics, UCLA

Non-university Positions:

1973 - 1988	Consultant, Lockheed Electronics, NASA, United States Army Strategy and Tactics
	Analysis Group, Aerospace Corporation, Law firm of Rosenthal and Rosenblum and law
	firm of Nelkin and Nelkin (expert witness in Federal Court), IMSL, Capital Technology
	Corporation, and Shell Development Company

- 1963 1966 Part-time Scientific Programmer, IBM, Los Angeles, California
- 1961 1963 Mathematician, Todd Shipyards, San Pedro, California

Rice University Services:

1972	Founder of RAMAS (Rice Association of Mexican-American Students) and faculty advisor. Name changed in 1984 to HACER (Hispanic Association for Cultural Enrichment at Rice)
1972 – 1975	Member: University Affirmative Action Committee
1972 – 1977	Member: University Undergraduate Admissions Committee
1972 – 1977	Member: University Minority Recruiting Committee
1972 – 1974	Associate: Richardson College
1978 – 1983	Member: Managerial Studies Program Steering Committee
1979 – 1983	Member: University Committee on Computer Science
1981 - 1982	Member: University Committee on Public Lectures
1985 – 1987	Member: University Undergraduate Admissions Committee
1985 - 1989	Chair: Mathematical Sciences Department Graduate Admissions Committee
1987 – 1988	Member: Search Committee for the Director of Minority Affairs
1988	Member: Search Committee for the Director of Administrative Computing
1989 - 1993	Member: Mathematical Sciences Department Graduate Committee
1990	Member: University Committee on the Graduate House
1991	Representative to GEM (Graduate Education for Minorities) National Meeting, South Bend, Indiana, April
1991	Representative to COFHE (Council on Financing Higher Education) National Meeting, Washington, DC, October
1991 – 1998	Member: Executive Committee, Center for Research on Parallel Computation
1991 – 1996	Member: Steering Committee for Rice University's Computational Sciences Degree Program
1991 – 1996	Member: Steering Committee, Rice University School Mathematics Project

1993 - 1998	Member: Board of Directors, Center for Education
1993 – 1994	Member: Search Committee for Vice President for Student Affairs
1994 – 1996	Member: Search Committee for Associate Provost for Institutional Diversity
1997 – 1998	Chair: Provost's Graduate Fellowship Committee
1998	Faculty member: Structural and Computational Biology and Molecular Biophysics (SCBMB) Graduate Program
1998 – 2010	President's Council for Diversity and Minority Affairs
1999	Member: Search Committee for Provost
1999 – 2005	Faculty member, Gulf Coast Consortia for Quantitative Biomedical Sciences (formally W.M. Keck Center for Computational Biology)
2003 - 2008	Chair: President's Lecture Series of Diverse Scholars
2003 – present	Chair: Presidential Mentoring Award
2011 – present	Director: Rice Empowering Leadership Alliance
2013 – present	Faculty sponsor: Mariachi Luna Llena

2015 - present Director: Rice Graduate Education for Minorities

Professional Societies:

American Mathematics Society (AMS)

Society for Industrial and Applied Mathematics (SIAM)

Mathematical Programming Society

Mathematical Association of America (MAA)

National Academy of Engineering (NAE)

Society for the Advancement of Chicanos and Native Americans in Science (SACNAS)

Professional Services:

1972 – 1977	Member: National Board of Directors of Society for Advancement of Chicanos and Native Americans in Sciences (SACNAS)
1973	Member: Cabinet Committee on Opportunity for the Spanish Speaking, Washington, DC
1973 – 1974	Member: Board of Directors of League of United Latin American Citizens (LULAC) Houston Educational Service Centers
1973 – 1976	Member: Board of Directors of the Greater Houston Chapter of the American Civil Liberties Union

1974	Member: NIH Site Visit Committee, for MSIP (Minority Institutions Science Improvement Program), Bethune-Cookman College, Daytona Beach, Florida
1975	Member: Selection Committee for NSF Graduate Fellowships in Applications of Mathematics
1975	Member: NSF Evaluation Committee for Minority Institutions Science Improvement Program (MISIP) Applications, Washington, D.C.
1975 – 1977	Vice-President: National Board of Directors of Society for Advancement of Chicanos and Native Americans in Science (SACNAS)
1977	Co-organizer: First Mexico-United States Workshop on Numerical Analysis, Mexico City
1977	Session Organizer: 10th Interface Symposium on Computer Science and Statistics, Gaithersburg, Maryland
1979	Co-organizer: 2nd Mexico-United States Workshop on Numerical Analysis, Mexico City
1979 – 1980	Instructor and Director: NSF Chautauqua Short Course, "Computational Methods for Nonlinear Problems," Santa Ana, California; Portland, Oregon and Albuquerque, New Mexico
1979 – 1981	Member: SIAM Committee on Human Rights of Mathematical Scientists
1979 – 1985	Member: SIAM Program Committee
1980	Chairman and Co-organizer: SIAM National Meeting, Houston, Texas
1981	Co-organizer: 3rd Mexico-United States Workshop on Numerical Analysis, Cocoyoc, Mexico
1981 - 1982	Member: NSF Advisory Committee on Minorities and Women
1984	Co-organizer: 4th Mexico-United States Workshop on Numerical Analysis, Guanajuato, Mexico
1985	Member: Accreditation Committee, High School for the Performing and Visual Arts (HSPVA), Houston, Texas
1985	Member: Accreditation Committee, High School for the Health Professions (HSHP), Houston, Texas
1985 – 1988	Mathematics Director: HMSIC Houston Mathematics and Science Improvement Consortium, NSF sponsored program for precollege teachers of mathematics and science, Baylor College of Medicine, Houston, Texas
1986	Organizer: Special Session on the Karmarkar Algorithm, SIAM National Meeting, Boston, Massachusetts
1986	Member: Committee on SIAM News
1986 - 1990	SIGOP Representative: SIAM News
1986 - 2000	Panel Member: Board on Assessment of NBS Programs

1986 - 1988	Program Chairman: SIAM SIGOP (Special Interest Group in Optimization)
1986 – 1988	Member: Advisory Committee Texas Coordinating Board
1986 – 1989	Member: AMS-MAA Task Force on Minorities
1987	Co-organizer: Second SIAM International Conference on Optimization, Houston, Texas
1988	Co-organizer: 5th Mexico-United States Workshop on Numerical Analysis, Merida, Mexico
1988	Member: Selection Committee, National Chicano Council for Higher Education (NCCHE) Hispanic Science Fellowship, Irvine, California
1989	Instructor and Director: NSF Chautauqua short course, "Interior-Point Methods for Linear Programming," Portland, Oregon
1989 – 1992	Member: SIAM Board of Trustees
1990 – 1991	Member: American Mathematical Society Committee on Education
1990 - 1991	Member: Strategic Planning Task Force, American Mathematical Society
1991	Co-organizer: 6th Mexico-United States Workshop on Numerical Analysis, Oaxaca, Mexico
1991 – 2000	Member: Committee on Minority Participation in Mathematics, Mathematical Association of America
1992	Member: AMS-MAA Speaker Selection Committee for 1993 AMS-MAA Joint National Meeting
1992 – 1994	Member: Rewards and Evaluations Committee, Joint Policy Board on Mathematics
1992 – 1994	Member: Mathematical Sciences Education Board, National Academy of Sciences
1992 - 2000	Member: The Computing Research Association Committee on Women
1995 – 2000	Member: Advisory Board of Texas Statewide Systemic Initiative for Mathematics, Science, and Technology Education (SSI), The University of Texas-Austin
1995 – 1996	Member: Formal Strategic Planning Committee, The Rice School/La Escuela Rice, Houston, Texas
1996 - 2002	Member: National Science Board
1996 – 1997	Member: Task Force on Values in Education, Joint Policy Board for Mathematics
1998 – 2000	Faculty member, Structural and Computational Biology and Molecular Biophysics (SCBMB) Graduate Program, Baylor College of Medicine
1999 - 2000	Co-chair: SIAM 2000 National Meeting, San Juan, Puerto Rico
1999 – 2001	Chair: Search Committee, Executive Director for the AMP program at the University of Houston, Houston, Texas
1999 – 2003	Chair: Advisory Board, HULINC, Houston, Texas
1999 - 2000	Member: Board of Directors, Ambassadors International Ballet Folklorico, Houston,

	Texas
1999 – 2001	Member: Board of Directors, Institute for Pure and Applied Mathematics, University of California-Los Angeles
1999 – 2001	Member: Public Affairs Advisory Group (PAAG), National Science Foundation
2000	Chair: VCCA National Meeting 2000, Nacogdoches, Texas, June 2000
2001 - 2004	Member: Board on Higher Education and Workforce, National Academy of Sciences/National Research Council
2001 - 2004	Co-chair: Research Board for Building Engineering and Science Talent (BEST)
2004 - 2006	Member: Research Advisory Committee, Texas Higher Education Opportunity Project
2004	Member: Search Committee, Assistant Director for Education and Human Resources at the National Science Foundation.
2005	Member: Prize Committee for INFORMS Optimization Society
2005 - 2006	Member: AAAS Committee on Nominations
2005	Conference Committee Chair, "50 years of Alternating Direction Methods: Honoring the Contributions of Douglas, Peaceman, and Rachford." Rice University, Houston, Texas November
2005 – present	Member: Advisory Board, Computing Alliance for Hispanic-Serving Institutions (CAHSI)
2006 - 2010	Member: Board of Directors, the Academy of Medicine, Engineering, and Science of Texas (TAMEST)
2006 - 2010	Member: Human Resources Advisory Committee, Board of Trustees of Mathematical Sciences Research Institute (MSRI)
2006 - 2007	Member: GRE® Technical Advisory Committee (TAC), ETS
2006 - 2008	Member: Board of Directors, Math for America, New York, NY
2007	Member: Emerging Research Institutions Committee, NAE
2007 - 2012	Member: Distinguished Public Service Award Committee, AAAS
2007 - 2009	Member: Committee on Enhancing the Master's Degree in the Natural Sciences, National Research Council, NAS
2007 - 2009	Member: Advisory Board, MIT Faculty Diversity Initiative Committee
2007 - 2009	Member: National Center for Women and Information Technology (NCWIT) Executive Advisory Council
2007 - 2018	Member: Society for Industrial and Applied Mathematics (SIAM) Diversity Advisory Committee
2008 - 2009	Member: Advisory Board, Graduate Education in the Mathematical Sciences to Nurture Every Student (GEMSTONES)

2008 - 2016	Member: Advancement of African-American Researchers in Computing (A4RC) Advisory Board
2008 - 2010	Member: STAIRSTEP External Advisory Committee
2008 - 2011	Member: New Image for Computing Board of Advisors
2010 – present	Board of Advisors for Center for Minorities and People with Disabilities in Information Technology (CMD-IT)
2011 - 2012	Member: Science Committee for the National Park Service Advisory Board
2011 - 2012	Advisory Board of the Houston Education Research Consortium (HERC)
2013 - present	University of Texas - Pan American, NSF-ADVANCE External Advisory Committee
2015 - present	Member: Science Committee of the National Park System Advisory Board
2016 - 2017	Mayor's Hispanic Advisory Board, City of Houston

Services Related to Minority and Outreach Education:

1972	Keynote speaker: "Why are there so few Mexican-Americans in Texas Universities?" University of Houston Symposium on Mexican-American Problems in Texas
1972	Invited speaker: University of Houston Workshop on Recruitment and Retention of Mexican-American Students
1973	Featured guest: 30-minute interview on Channel 13 show "La Raza" to discuss the problems of the Mexican-American in education, Houston, Texas
1973	Featured guest: Channel 2 show "Hola Amigos" to discuss problems of the Mexican- American in Education, Houston, Texas
1974	Invited speaker: "Interpretation of College Board Scores for Mexican-American Students," American Association for the Advancement of Science annual meeting, San Francisco, California
1975	Participant: American Association of Medical Colleges (AAMC) conference on evaluation of the MCAT (Standard entrance examination for medical schools) and its relationship to Mexican-American students, Los Angeles, California
1976	Invited guest: Channel 2 show "All the People" to discuss Mexican-Americans in science, Oakland, California
1978	Keynote speaker: Conference on the Status and Issues of Chicanos and Native American Participation in Science, sponsored by SACNAS, Boulder, Colorado
1979	Invited speaker: Symposium on Contemporary Role Models, sponsored by SACNAS and AAAS, Houston, Texas
1985	Judge: High School Science Essay Contest, Sponsored by Organization of Chinese American Women
1986	Keynote speaker: Hispanic Week, University of Texas, El Paso
1987	Invited speaker: Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) National Conference, El Paso, Texas

1988	Invited speaker: The National Chicano Council for Higher Education Research Symposium for Undergraduate Science Fellows, Irvine, California
1988	Commentary: "American Minority Students: A Valuable and Neglected Resource," SIAM News, November
1989	Keynote speaker: "The Role of American Minorities in Science and Engineering," NIH MBRS National Meeting, Houston, Texas, October
1989	Invited speaker: "A Career in Education: The Right Choice," The 1989 Hispanic Engineer National Achievement Awards Conference, Houston, Texas, October
1989, 1990, 1991	 1, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999 Design, implement and direct the following CRPC Rice University minority programs: (a) One week Mathematical and Computational Sciences Awareness Summer Course for K-12 mathematics and science teachers from schools with significant minority enrollment; (b) Spend the Summer with a Scientist program for minority science undergraduates
1989	Invited speaker: Region VI workshop-Making Mathematics Work for Minorities, a project of the Mathematical Sciences Education Board, San Antonio, Texas
1990	Invited speaker: Recruitment and Retention of Minority Students in Science and Engineering. Consult with the administration of the University of Tulsa concerning the design and implementation of minority education programs, March
1990	Consult with the administration of the University of California-Davis, concerning the design and implementation of minority education programs, May
1990	Invited speaker: "Minority Scientist-Conflicting Roles," Western regional meeting of Danforth-Compton Minority Fellows, University of Texas, Austin, Texas, April
1990	Invited speaker: Hispanic Education Summit, Houston, Texas, April
1990	Invited participant: National Convocation of Mathematical Sciences Education Board Making Mathematics Work for Minorities project, Washington, DC. Received award from National Research Council as one of twenty most influential leaders in minority mathematics education, May
1990, 1991, 1992	2 1993 1994
,	Participate in Center for Research on Parallel Computation, California Institute of Technology, Mathematical and Computational Sciences Awareness course for mathematics teachers from high schools with significant minority enrollment, June
1990	Participate in Snowbird Conference, Computing Research Board, The Association for the Advancement of Computing Research, Snowbird, Utah and discuss Rice minority programs and minority pipeline issues in science and engineering, July
1990, 1991, 1992	$\underline{2}$
,,	Invited speaker: "Minority Issues in Mathematics Education," RUSMP (Rice University Science and Mathematics Project) Program for High School Teachers, Houston, Texas, July
1990	Keynote speaker: "Minority Educational Issues and their Impact on Houston and Texas," Rice President's Luncheon Series, Houston, Texas, November
1990	Invited speaker: "Minority Women in the Mathematical Sciences," National Conference on Women in the Mathematical Sciences, Austin, Texas, December

1991	Invited speaker: "A Career in Industry or University," SACNAS (Society for the Advancement of Chicanos and Native Americans in Science), National Meeting, Irvine, California, January
1991	Invited speaker: "Nurturing Minority Graduate Students in Mathematics," American Mathematical Society and Mathematical Association of America Joint National Meeting, San Francisco, California, January
1991	Invited speaker: "The Changing Role of Mathematics and its Implication to Minority Education," Teacher in-service, High School for the Health Professions, Houston, Texas, February
1991	Invited speaker: "Minority Educational Issues: Motivation and Opportunities," presented to faculty and students of the High School for the Health Professions, Mercedes, Texas, February
1991	Invited speaker: "Recent Developments in Interior-point Methods for Linear Programming: An Overview," Exxon Production Research, Houston, Texas, March
1991	Invited speaker: "Opportunities in Science and Engineering" Address parents of first and second graders at J.P. Henderson Elementary School (predominantly Hispanic), Houston, April
1991	Invited speaker: "Recruitment and Retention of Women and Minorities in Science and Engineering" Address science faculty, University of Utah, April
1991	Invited speaker: "Diversity Issues in Mathematics" Address combined Math Department faculties of the University of California, San Francisco, April
1991	Invited speaker: "Recruitment and Retention of Graduate Minority Students" Address Chairs of Departments, College of Liberal Arts, Texas A&M University, College Station, September
1991	
	Invited speaker: "Meeting Today's Challenges: Minorities in the Sciences" Celebrating Diversity Conference, University of Houston, October (invited by President of the University), October
1991	Invited speaker and participant: "Equality of Opportunity," Workshop on Human Resources in Computer Science and Technology, National Research Council, Irvine, California, October
1991	Invited speaker: "Diversity Issues in Science and Engineering" Address Echo 1, Undergraduate Minority Support Group, University of Texas, Austin, November
1991	Invited speaker: "The Changing U.S. Demographics and the Mathematical Sciences Pipeline," 1991 Mathematical Sciences Department Chairs Colloquium, Board on Mathematical Sciences, Washington, DC, October
1992	Invited speaker: "Computation: An Indispensable Part of Today's Science," SACNAS (Society for the Advancement of Chicanos and Native Americans in Science), National Meeting, San Antonio, Texas, January
1992	Keynote speaker: "Building the Future," Mathematics 2000; California Coalition for Mathematics, Sacramento, March (invited by the Governor's Office)
1992	Participant: "Gender Equity," panel discussion, Pacifica Radio, Houston, March

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"The Changing Role of Mathematics," North Harris Community College Math Club, Houston, April
Keynote speaker: "Diversity and the Changing Role of Mathematics," Hispanic Heritage Week, Sandia National Laboratory, Albuquerque, May
"Our Hispanic Heritage and Science," address to the fourth and fifth grade class, West University Elementary School, Houston, May
Conduct Computational and Mathematical Sciences Awareness Workshop for K-12teachers from schools with large minority enrollments:(i) July 19(ii) July 31Sandia National Labs, Albuquerque
Invited speaker: "The Dynamics of Exclusion," Changing the Culture Workshop, Center of Research in Astrophysics, University of California, Berkeley, June
Commencement speaker, High School for the Health Professions, Mercedes, Texas, June
"Why should I go to College?" address to graduating seniors, Milby High School, Houston, June
In-service presentation: "The Necessity of High Expectations for Minority Youth," LaGrange Middle School faculty, LaGrange, Texas, August
Keynote speaker: "Contemporary Educational and Diversity Issues," Sandia National Labs. Outreach Program for high school students and teachers, Livermore, California, September
In-service presentation: "What Universities Expect from Today's Student," Milby High School faculty, Houston, September
In-service presentation: "The Need for Sensitivity in Diversity Issues," West University Elementary School faculty, Houston, October
Featured guest: "Hola Houston," Fox Channel 26 talk show, Houston, November
Panelist: Duke Graduate School Symposium, "The Future of Minorities in American Higher Education," November
Presentation: "Math is Necessary," 1993 Hispanic Forum Career and Education Day, Houston, February
Presentation: "Rice Outreach Educational Activities," Society of Rice University Women, February
Presentation: "Why be a Good Student," second grade class, West University Elementary School, Houston, March
Keynote address: "The Value of Education," California Institute of Technology Minority Youth Program, Los Angeles, March
In-service presentation: "Hispanic Heritage and Awareness," Hispanic Awareness Week, West Elementary School, Houston, May
Keynote speaker: "The Mayan Connection," Association for the Advancement of Mexican Americans Cinco de Mayo celebration, Houston, May

1993 Speaker: Hispanic Awareness Week, Poe Elementary School, Houston, May

1993	Keynote speaker: Jackson Middle School First Annual Girl's Athletic Banquet, Pasadena, Texas, May
1993	Keynote speaker at the Cinco de Mayo celebration, King Middle School, Crosby, Texas, May
1993	Invited speaker: "The Changing Role of Mathematics and National Agenda Issues," Rice University School Mathematics Project, June
1993	Graduation speaker: (MS2) Middle School Math and Science Project, San Jacinto Community College, Pasadena, Texas, June
1993	Graduation speaker: Math/Science Institute mini-graduation, Kincaid High School, Houston, Texas, July
1993	Special lecture: "The Health of the Nation," Families Weekend, Rice University, Houston, September
1993	In-service presentations to teachers and students of Dibol Independent School District, Dibol, Texas, September
1994	Invited speaker: Hispanic Forum Career Day, George Brown Convention Center, Houston, Texas, February
1994	Invited speaker: Diversity Issues, staff development program, Dupont Corporation, LaPorte, Texas, February
1994	Address student body, staff, and teachers on the value of education, Scarsborough Elementary School, Houston, February
1994	Organize and lead one-day workshop: "Say 'Yes' to a Youngster's Future" The workshop was held on the Rice campus and attended by approximately 120 teachers, students and parents from Eighth Avenue Elementary School (predominantly Hispanic) in Houston, February
1994	Invited address: The Role of the Computational Sciences in Mathematics, SACNAS (Society for the Advancement of Chicanos and Native Americans in Science) National Meeting, Chicago, Illinois, March
1994	Keynote speaker: Rice Undergraduate Minority Student Program Advance Annual Banquet, Houston, Texas, April
1994	Invited speaker: "Multicultural Issues in Mathematics," Education Department Symposium, Rice University, Houston, Texas, April
1994	Keynote speaker: Promoting Representation of Women and Minorities in Mathematics, University of Houston Clear Lake Conference, Houston, Texas, April
1994	Keynote speaker: "Diversity Issues in Higher Education: 25 Years Later - What Has Changed," University of Illinois, Urbana-Champaign, Illinois, April
1994	Keynote speaker: Hispanic Heritage Program, University of Illinois, invited by Latino Graduate Student Association, Urbana-Champaign, Illinois, April
1994	Keynote Speaker: Semana Latina program, California Institute of Technology, invited by Latino Graduate Student Association, Pasadena, California, May

1994	Commencement Speaker, Jefferson Davis Night School, Houston, June
1994	Invited Speaker: "Society and Contemporary Issues in Mathematics Education," Rice University School Mathematics Project, June
1994	Invited speaker: "Societal and Contemporary Issues in Mathematics Education," California Institute of Technology Awareness Workshop for Secondary School Mathematics Teachers, Pasadena, California, June
1994	Invited speaker: "Contemporary Issues in Mathematics," CalTech, Pasadena, California, June
1994	Invited speaker: "Contemporary Issues in Mathematics," Rice University School Mathematics Project, Houston, Texas, June
1994	Invited speaker: "Contemporary Issues in Mathematics," The Rice K-8 School/La Escuela Rice, Houston, Texas, June
1994	Invited speaker: "Increasing the Representation of Minorities and Females in Science, Engineering, and Mathematics: Focusing on Educational Strategies," Texas Education Agency, Austin, Texas, July
1994	Keynote speaker: "Education: The Key to Success Not Only for the Individual but the Nation," 11th Annual Scholarship Banquet, Society of Mexican American Engineers and Scientists, Houston, Texas, July
1994	Invited speaker: "Orchestrating Mathematics Instruction to the National Needs of Science and Society," Conference for the Advancement of Mathematics Teaching, Houston, Texas, August
1994	Invited speaker: "Orchestrating Mathematics Instruction to the National Needs of Science and Society," Fiesta Young Leaders of the National Hispanic Institute, Houston, Texas, August
1994	Invited speaker: "Orchestrating Mathematics Instruction to the National Needs of Science and Society," 1960 Area Council Teachers of Mathematics, Tomball School District, Tomball, Texas, September
1995	Invited speaker: "The Rice Computational and Mathematical Sciences Awareness Workshop for K-12 Educators," Texas Education Agency, Austin, Texas, January
1995	Invited speaker: "Value of Education, Value of Mathematics, and Career Options," Westbury High School Luncheon, Houston, Texas, January
1995	Invited speaker: "Computational Science: The Contemporary Challenge of Mathematics," Department of Mathematics and Statistics, The University of New Mexico, Albuquerque, New Mexico, February
1995	Invited guest: Latin America into the 21st Century, Rice University, Houston, Texas, February
1995	Keynote speaker: "Challenges of Contemporary Mathematics Education," Annual Mathematics Conference for K-12 Mathematics Teachers, Houston Council of Teachers of Mathematics, Houston, Texas, February
1995	Invited speaker: "On the Retention of Minorities and Women in Mathematical Sciences Graduate Programs," 1995 American Association for the Advancement of Science, Atlanta, Georgia, February

1995	"Rice Minority and Educational Outreach Activity," National Science Foundation Site Visit, Rice University, Houston, Texas, April
1995	Invited speaker: Cinco de Mayo Celebration, Dickinson High School, Dickinson, Texas, May
1995	Invited speaker: "Underrepresentation: Anatomy of Failure and Steps Toward Success," Minorities in Computing, National Science Foundation, Washington, District of Columbia, May
1995	Invited speaker: "Orchestrating Mathematics Instruction to the National Needs of Science and Society," Rice University School Mathematics Project and GirlTech '95, Rice University, Houston, Texas, June
1995	Invited speaker: "A National Need: Enhanced Interaction with the K-12 Community," Seminars on Academic Computing, Snowmass Village, Colorado, August
1995	Invited speaker: "Encouraging Minorities in Computational Science and Engineering," Association of Computer and Information Science/Engineering Departments at Minority Institutions, ADMI '95 Workshop, New Orleans, Louisiana, August
1995	Keynote address: "The Ingredients of Success," The First SC-COSMIC Student Conference on Computational Sciences, University of Houston-Downtown, Houston, Texas, October
1995	Moderator: "The Real Deal: An Informal Graduate Student Session," SIAM National Meeting, Charlotte, North Carolina, October
1995	Invited speaker: "Underrepresentation and the Lack of Homogeneity in the Minority Population," Diversity Day, Shell Oil Company, Houston, Texas, November
1996	Invited speaker: "Mathematics Education and National Concerns," MAA Student Lecture, Joint Mathematics Meeting, Orlando, Florida, January
1996	Invited panel member: "Affirmative Action and Underrepresented American Minorities in Mathematics at the Graduate and Professional Levels," NAM Panel Discussion, Joint Mathematics Meeting, Orlando, Florida, January
1996	Invited speaker: "Orchestrating Mathematics Instruction to the National Needs of Science and Society," Student Conference on Mathematics and Its Applications, Department of Computing and Mathematical Sciences, Texas A&M University, Corpus Christi, Texas, February
1996	Invited speaker: "A Case for Affirmative Action at Research Universities," Cornell University, Ithaca, New York, April
1996	Featured: interview on "Week Night Edition," Channel 8, Houston, Texas, April
1996	Featured: in six-part documentary "Breakthrough: The Changing Face of Science in America," Channel 8, Houston, Texas, April
1996	Invited speaker: "A Case for Affirmative Action at Research Universities," Cornell University, Ithaca, New York, April
1996	"Affirmative Action: What have we learned, what must we do?" Office of the President, Rice University, Houston, Texas, April
1996	Keynote speaker: 1996 Fifth Annual Scholars' Banquet, Houston Independent School District, Houston, Texas, May

1996	"Educational Outreach in the Computational and Mathematical Sciences," W.M. Keck Center for Computational Biology, Keck Retreat '96, Galveston, Texas, September
1996	Motivational address to the entire second grade class at West University Elementary, Houston, Texas, September
1996	Invited speaker: "Issues that Impact K-12 Math Education," HISD Math Summit Meeting, Houston, Texas, September
1996	Radio interview: Hispanic Radio Network, September
1996	Motivational address to the high school program at the Hispanic Engineer National Achievement Awards Conference (HENAAC), Houston, Texas, October
1996	Invited speaker: "Retention Issues at Rice University," Stanford and Sloan Conference on Increasing the Minority Ph.D.s in Engineering, Science, and Mathematics, Stanford, California, October
1996	Invited speaker: "Ways Industry and Universities Can Cooperate to Improve the Representation of Hispanics in Science and Engineering," Hispanic Engineer National Achievement Awards Conference (HENAAC), Houston, Texas, October
1997	Invited speaker: "The Death of Affirmative Action: What has Rice learned?" Association of Rice Alumni, Rice University, Houston, Texas, January
1997	Invited speaker: "Balancing Professional and Minority Issues," ADVANCE (Advocating Diversity and Assisting Career Exploration), Rice University, Houston, Texas, March
1997	Keynote speaker: "National Agenda Issues in Science and Underrepresentation," National Alliance of Research Centers of Excellence, El Paso, Texas, March
1997	Commencement speaker: George I. Sanchez High School, Houston, Texas, May
1997	Invited speaker: "Orchestrating Mathematics Instruction to the National Needs of Science and Society," Rice University School Mathematics Project, Rice University, Houston, Texas, June
1997	Invited speaker: "The Changing Role of Mathematics: Enter the Computational Sciences," Alliance for Minority Participation Conference, Las Cruces, New Mexico, July
1997	Invited speaker: "National Agenda and Societal Issues Affecting Contemporary Mathematics Education," Conference for the Advancement of Mathematics Teaching, Houston, Texas, July
1997	Invited speaker: "The Changing Role of Mathematics: Enter the Computational Sciences," New Mexico State University, Las Cruces, New Mexico, July
1997	Invited speaker: "Diversity: A Contemporary National Challenge," Northwestern University, Chicago, Illinois, September
1997	Invited speaker: "U.S. Hispanics: Diversity within Diversity," National Hispanic Heritage Month Celebration, National Science Foundation, Washington, DC, September
1997	Conduct K-12 Science and Mathematics Enrichment Seminar for K-12 teachers from schools with large minority enrollments, SACNAS National Conference, Houston, Texas, October

1997	"Awareness and Sensitivity Issues Affecting K-12 Education," K-12 Science and Mathematics Enrichment Seminar, SACNAS National Conference, Houston, Texas, October
1997	"U.S. Hispanics: Diversity within Diversity," Office of the President, Rice University, Houston, Texas, November
1997	Keynote address (Education Component): "National Agenda and Societal Issues Affecting Contemporary Mathematics Education," Supercomputing '97, San Jose, California, November
1997	"Integrating Applications, Computation, and Technology into Education," Computational Biomedicine Symposium, Baylor College of Medicine, Houston, Texas, December
1998	"Assessing and Evaluating the Evaluation Tool - The Standardized Test," 1998 NISE Forum: Assessment and the Promotion of Change, Washington, DC, February
1998	White House invited panelist: Meeting America's Needs for the Scientific and Technological Challenges of the Twenty-First Century, AAAS 150th Anniversary Meeting, Philadelphia, Pennsylvania, February
1998	"What Can Computer Center Directors Do to Improve Underrepresentation," Invited speaker, Coalition of Academic Supercomputing Centers (CASC) Meeting, Houston, Texas, April
1998	"Our National Health: Underrepresentation and Other Issues," Invited speaker, University of Texas, Pan American, Edinburg, Texas, April
1998	Invited speaker: HISD Outstanding Progress Awards Event, Rice University, Houston, Texas, April
1998	Keynote address: "National Agenda and Societal Issues Affecting Contemporary Mathematics Education," Fourth Conference for African-American Researchers in the Mathematical Sciences, Rice University, Houston, Texas, June
1998	Commencement address: "The Civic Scientist: Participation in Current National, Societal and Educational Problems," Division of Physical Science, University of California, Los Angeles, June
1998	Invited speaker: "National Agenda and Societal Issues Affecting Contemporary Mathematics Education," Rice University School Mathematics Project, Rice University, Houston, Texas, June
1998	Keynote address: "Mentoring for the 21st Century," Mentoring for the 21st Century: A Symposium, Presidential Awards for Excellence in Science, Mathematics, and Engineering Mentoring Program, Washington, DC, September
1998	Invited speaker: "Diversifying the Student Body in a Post Hopwood Era: The Rice Experience," Achieving Graduate Diversity Conference, University of California, Berkeley, California, September
1998	Invited speaker: "A Pyramid of Mentoring," Achieving Graduate Diversity Conference, University of California, Berkeley, California, September
1998	Invited speaker: "Diversifying the Student Body in a Post Hopwood Era: The Rice Experience," Boston University, Boston, Massachusetts, November
1998	Invited panelist: "Achieving Diversity in the Science and Engineering Professoriate,"

	National Science Foundation, Arlington, Virginia, November
1998	Invited speaker: 1998 SHPE Region V RSLC, Rice University, Houston, Texas, November
1999	"Some Fundamental Issues in Affirmative Action, Admissions, Retention, and Faculty Hiring," Sloan Conference, Rice University, Houston, Texas, March
1999	"Mentoring Minority Women in Science: Special Struggles," Committee on Women in Science and Engineering Symposium - Careers of Women in Science: Who Will Do the Science of the Future, Washington, DC, April
1999	Commencement speaker, Jesse H. Jones High School, Houston, Texas, May
1999	Keynote address, SSRC-Mellon Summer Conference, Brown University, Providence, Rhode Island, June
1999	"Some Fundamental Issues in Affirmative Action, Admissions, Retention, and Faculty Hiring," The University of Wisconsin, Madison, Wisconsin, June
1999	"Promoting National Minority Leadership," The University of Wisconsin, Madison, Wisconsin, June
1999	"Diversity Awareness," South Texas Science Academy Summer Visitation Program, Rice University, Houston, Texas, June
1999	"Diversity Awareness," Milby Summer Visitation Program, Rice University, Houston, Texas, June
1999	U.S. Department of Energy Faculty and Student Undergraduate Research Education Conference, Argonne National Laboratory, Argonne, Illinois, July
1999	"But We're Not an Internet Company," Houston Hispanic Professionals Leadership Day, Jesse H. Jones Graduate School of Management, Rice University, Houston, Texas, August
1999	"The Educational, Outreach and Training Partnership for Advanced Computational Infrastructure," 99 Conference, University of New Mexico, Albuquerque, New Mexico, August
1999	"Views on Latinos in the Academia," (SOLAR) Society of Latino Alumni of Rice, Rice University, Houston, Texas, September
1999	Keynote address, Faculty Senate Meeting, University of Houston, Houston, Texas, October
1999	Welcoming address, National Science Foundation Summit Meeting on Promoting National Minority Leadership in Science and Engineering, Rice University, Houston, Texas, October
1999	"Lack of Minority Leadership: Possible Causes and Plausible Solutions," National Science Foundation Summit Meeting on Promoting National Minority Leadership in Science and Engineering, Rice University, Houston, Texas, October
1999	"Mentoring Effectively: Preparing Minority Students for Careers in Physical and Mathematical Sciences," MURPPS Annual Orientation, University of California, Davis, California, October

1999	"How is Society Failing our Children," Schools of Excellence Conference for all elementary division teachers, administrative officials, and counselors, Houston, Texas, November
1999	"How is Society Failing our Children," Schools of Excellence Conference for all secondary division teachers, administrative officials, and counselors, Houston, Texas, November
1999	Consulted with T.J. Watson Research Center's Vice President for Research Paul Horn on issues of diversity and inclusiveness, December
2000	Keynote address, "Education and the Parents' Role: Important Components of your Child's Future," Magnolia Learning Community Conference, Houston, Texas, January
2000	Keynote address, "Balancing the Role of Minority and Scientist," 7th Biennial Symposium on Minorities, the Medically Underserved, and Cancer, Washington, DC, February
2000	"Mentoring Women and Minorities," NPACI All Hands Meeting, San Diego, California, February
2000	Attended the Public Affairs Advisory Group (PAAG) Meeting, National Science Foundation, Washington, DC, February
2000	Chaired the Retention Session of the Workshop 2000: A National Dialogue to Move Minority Graduate Education Forward, Atlanta, Georgia, February
2000	"Research and Education: Bridging the Gap," Texas Southern University, Houston, Texas, March
2000	Presented at the Undergraduate Research Symposium 2000, University of Wisconsin, Madison, Wisconsin, April
2000	Invited address, Racial Solidarity Week, Rice University, Houston, Texas, April
2000	Keynote address, McDonald's Award Luncheon, Houston, Texas, May
2000	"Diversity: Achievement," NISE Forum: Diversity and Equity Issues in Mathematics and Science Education, Detroit, Michigan, May
2000	 Design, implement and direct the following Center for Excellence and Equity in Education (CEEE) Rice University outreach programs: (a) Two week GirlTECH - Mathematical and Computational Sciences Awareness Summer course for K-12 mathematics and science teachers from schools with significant minority enrollment; (b) Alliances for Graduate Education and the Professoriate (AGEP) provides a year round community experience that encourages science, mathematics, and engineering graduate enrollment, supports Ph.D. degree completion, and exposes students to rigorous academic disciplines.
2000	"Diversity Awareness," South Texas Science Academy Summer Visitation Program, Rice University, Houston, Texas, June
2000	"Diversity Awareness," Milby/YES Summer Visitation Program, Rice University, Houston, Texas, June
2000	K-12 Teacher Workshop, SIAM National Meeting, San Juan, Puerto Rico, July

2000	Featured guest: "Underrepresentation: K-12 Education and the Cities," Math Medley talk show, Renaissance Radio, Phoenix, Arizona, July
2000	U.S. Hispanics: Diversity within Diversity, Keynote address in honor of Hispanic Heritage Month, Lawrence Livermore National Laboratory, Lawrence, California, October
2000	Tenure: You Can't Get There Without It," Session on Junior Faculty Issues, SACNAS National Meeting, Atlanta, Georgia, October
2000	U.S. Hispanics: Diversity within Diversity, Keynote address in honor of Hispanic Heritage Month, Compaq Computers, Houston, Texas, October
2000	The History of La Posada," La Posada, Hispanic Association for Cultural Enrichment at Rice (HACER), Rice University, Houston, Texas, December
2001	"Work Habits, Education, and Self Worth: Ingredients for Success," Invited speaker, Travis Elementary School, Parent-Teacher Association (PTA), Houston, Texas, February
2001	"State of EOT-PACI," NPACI All Hands Meeting, San Diego, California, February
2001	"Serving as a Mentor and Collaborator in Your Discipline and at Your Institution," QEM/TSU Scholarly Productivity Workshop, Texas Southern University, Houston, Texas, March
2001	"Texas K-12 Educational System: Should it be a national model?" National Council for Supervisors in Mathematics, Orlando, Florida, April
2001	"Work Habits, Education, and Self Worth: Ingredients for Success," Joe Barnhart Lectureship, Beeville, Texas, April
2001	"Some Fundamental Issues in Affirmative Action, Admissions, Retention, and Faculty Hiring," Alfred P. Sloan Engineering and Science Underrepresented Minority Ph.D. Recruitment and Retention Conference, The City College of New York of The City University of New York, New York, New York, April
2001	Welcome address, GK-12 Fellows Reception, Rice University, Houston, Texas, May
2001	 Design, implement and direct the following Center for Excellence and Equity in Education (CEEE) Rice University outreach programs: (a) Two week TeacherTECH - Mathematical and Computational Sciences Awareness summer course for K-12 mathematics and science teachers from schools with significant minority enrollment; (b) Alliances for Graduate Education and the Professoriate (AGEP) provides a yearround community experience that encourages science, mathematics, and engineering graduate enrollment, supports Ph.D. degree completion, and exposes students to rigorous academic disciplines.
2001	Invited address, United Way Scholars, Enron and United Way of the Texas Gulf Coast, Houston, Texas, June
2001	"Diversity Awareness," South Texas Science Academy Summer Visitation Program, Rice University, Houston, Texas, June
2001	"Diversity Awareness," Milby/YES Summer Visitation Program, Rice University, Houston, Texas, June
2001	"Promoting Participation of Underrepresented Groups in Science and Engineering," TeacherTECH '01 Awareness Day, Rice University, Houston, Texas, June

2001	"What Is Computation? How Has It Changed the Way Science is Done?" TeacherTECH '01 Awareness Day, Rice University, Houston, Texas, June
2001	"Computational Science in K-12," Contemporary Topics in Computational Science Education Session, Society for Industrial and Applied Mathematics (SIAM) Annual Meeting, San Diego, California, July
2001	"The need for Minority Leadership at the National Level" Invited speaker, Purdue University, West Lafayette, Indiana, September
2001	Invited speaker, Burbank Middle School Visit, Rice University, Houston, Texas, October
2001	"Diversity and Underrepresentation at Rice and Beyond," Parents Weekend, Rice University, Houston, Texas, October
2001	Invited speaker, Institute of Technology-Monterrey, Mexico Visit, Rice University, Houston, Texas, October
2001	Invited speaker, Hogg Middle School Visit, Rice University, Houston, Texas, October
2001	"Diversifying Computing: Its Successes, Challenges, and Contradictions," Richard Tapia Celebration of Diversity in Computing Symposium 2001, Houston, Texas, October
2001	"Contemporary Successes, Challenges, and Contradictions in Diversifying Education," Invited address, Rice University Chinese American Association, Rice University, Houston, Texas, November
2002	"No Child Left Behind: Its Anticipated Successes, Challenges, and Contradictions," Holland Lecture, Washington State University, Pullman, Washington, February
2002	"Minority Mathematics Professor: Confessions of a Round Peg in a Square Hole," Issues for Ethnic Minorities and Women in Science and Engineering Lecture Series, University of Washington, Seattle, Washington, February
2002	HISD Engineer Activity Week, Rice University, Houston, Texas, February
2002	"How Computation is Changing Science and Mathematics," A Texas Leadership Conference: Using Modeling, Visualization, and Data Management as Tools for Transferring Current Research into High School Mathematical Sciences, Rice University, Houston, Texas, March
2002	"Communication at the Heart of a Community for Underrepresented Minorities and Women in Graduate School, The Sixth Annual Writing Across the Curriculum 2002 Conference, Rice University, Houston, Texas, March
2002	"Contributions to Session Two of the 1998 NISE Forum: Assessment and the Promotion of Change: Assessing and Evaluating the Evaluation Tool - The Standardized Test," Psychology Testing Class, Rice University, Houston, Texas, March
2002	Invited speaker, Minority Graduate Education at Mountain State Alliance (MGE@MSA) Faculty Doctoral Mentoring Institute, Arizona State University, Tempe, Arizona, March
2002	Invited speaker, Diaz Music Institute Gala, Houston, Texas, April
2002	Invited speaker, Hogg Middle School, Houston, Texas, April

2002	Invited panel participant, "Science and Engineering Education," Space: A Critical Issues Workshop, James A. Baker III Institute, Rice University, Houston, Texas, May
2002	"Diversifying Computing: Its Successes, Challenges and Contradictions," 2002 All Hands Meeting – "Expeditions for the Future," Champaign-Urbana, Illinois, May
2002	"Success for All: Its Contradictions and Challenges," TeacherTECH '02 Awareness Day, Rice University, Houston, Texas, June
2002	"Success for All: Its Contradictions and Challenges," South Texas Science Academy Workshop, Rice University, Houston, Texas, June
2002	"Success for All: Its Contradictions and Challenges," Keynote address, The Annual RSI Systemic Leadership Institute, Corpus Christi, Texas, June
2002	"Success for All: Its Contradictions and Challenges," Alliances for Graduate Education and the Professoriate (AGEP) Summer Program, Rice University, Houston, Texas, June
2002	"Success for All: Its Contradictions and Challenges," Milby High School/YES Summer Workshop, Rice University, Houston, Texas, June
2002	Invited speaker, "Diversifying Computing: Its Successes, Challenges, and Contradictions," CRA Conference at Snowbird 2002, Snowbird, Utah, July
2002	Invited plenary address, "Diversifying Computing: Its Successes, Challenges, and Contradictions," MGE@MSA Doctoral Mentoring Institute, University of Utah, Salt Lake City, Utah, September
2002	Congressional testimony, BEST (Building Engineering and Science Talent) Leadership Meeting on Capitol Hill, Washington, DC, September
2002	"Promoting Teacher Leadership through University Collaboration," CEEE International Visitor Session, Rice University, Houston, Texas, October
2002	Panel discussion, National Campus Diversity Project Visit, Rice University, Houston, Texas, November
2002	Plenary session, "Creating Environments for Change," Sigma Xi Forum, Galveston, Texas, November
2002	Keynote address, RAMAS 30th Anniversary Celebration, Rice University, Houston, Texas, November
2002	Invited address, "National Science Foundation: Priorities and Opportunities," 2002 Governor's Conference on Science, Technology, and Mathematics Education, Leading Texas to the Next Level: No Child Left Behind and Beyond, Austin, Texas, November
2003	"Let's Tackle the Hard Questions," Engineering Bridges Symposium, Rice University, Houston, Texas, January
2003	Invited address, "Promoting Participation of Underrepresented Groups in Science and Engineering," Chevron Phillips Chemical Company, Kingwood, Texas, February
2003	"Examining the Minority-Majority Achievement Gap," UK Educational Group, Rice University, Houston, Texas, February
2003	Invited address, "Some Applications in Mathematics in My Real Life", Eastwood Academy, Houston, Texas, February

2003	Invited speaker, Say Yes to Engineering Group, Rice University, Houston, Texas, February
2003	Invited address, Vision 2003, Rice University, Houston, Texas, February
2003	Invited address, "Success for all: A Personal and a National Challenge," IMPACT 03, University of Michigan, Ann Arbor, Michigan, March
2003	Invited address, "Mentoring Underrepresented Minority Graduate Students" Third Annual Minority Graduate Education at Mountain States Alliance (MGE@MSA) Student Research Conference and Graduate Fair, Arizona State University, Tempe, Arizona, April
2003	Invited address, "Post-Affirmative Action Challenges to Diversity in Higher Education", California Institute of Technology, Pasadena, California, May
2003	Invited address, "Some Applications in Mathematics in My Real Life", Role Model Program, Rice University, Houston, Texas, May
2003	Invited address, "Maximizing the Impact on Higher Education" GEM/NACME "Engineering Collaborations" Conference, Houston, Texas, May
2003	Invited address, "Post-Affirmative Action Challenges to Diversity in Higher Education", AGEP Summer Program, Rice University, Houston, Texas, June
2003	Invited address, "Some Applications in Mathematics in My Real Life," South Texas Science Academy Workshop, Rice University, Houston, Texas, June
2003	Invited address, "Some Applications in Mathematics in My Real Life" Milby High School/YES Summer Workshop, Rice University, Houston, Texas, June
2003	Keynote address, 2003 Summer Research Opportunities Program (SROP) Conference, University of Minnesota, Minneapolis, Minnesota, July
2003	Keynote speaker, Texas Leadership, Education, and Diversity Conference at Jones Graduate School of Management, Rice University, Houston, Texas, August
2003	Invited panelist, "Changing Demographics and Challenges of the Future," National Science Board Workshop, Broadening Participation in Science and Engineering Research and Education, August
2003	Invited address, " Success for All: Its Challenges and Contradictions" University of New Mexico AGEP, Socorro, NM, September
2003	Panelist, "Politically Incorrect, Fast Pitch, Hardball Or Asking the Hard Questions about Diversity in Computing: An Inquisition of Richard Tapia", Richard Tapia Celebration of Diversity in Computing Symposium 2003, Atlanta, Georgia, October
2003	Invited speaker, "Mentoring Underrepresented Minority Graduate Students" Minority Graduate Education at Mountain State Alliance (MGE@MSA) Utah Faculty Mentoring Institute, October
2003	"Promoting Teacher Leadership through University Collaboration" UK Educational Group, Rice University, February
2004	"Fusing Art and Mathematics through Cars" Rice University - Say "YES" to Engineering Program, February

2004	Invited address, "Fusing Art and Mathematics through Cars" Vision 2004, Rice University, Houston, Texas, February
2004	Invited address, "Mentoring Underrepresented Minority Graduate Students," Minority Graduate Education at Mountain State Alliance (MGE@MSA) Faculty Mentoring Institute, Arizona State University, March
2004	Invited address, "Fusing Art and Mathematics through Cars" Burbank Middle School group, Rice University, March
2004	"Examining the Minority-Majority Achievement Gap" UK Educational Group, Rice University, April
2004	Invited address, Women@SCS Organization Presentation, Carnegie Mellon University, Pittsburgh, Pennsylvania, May
2004	Invited address, "Mathematics is Everywhere in My Real Life", South Texas Science Academy Workshop, Rice University, Houston, Texas, June
2004	"Issues and Opportunities in Underrepresented Populations", NAE Committee on Diversity in the Engineering Workforce, June
2004	Invited address, "Mathematics is Everywhere in My Real Life", Milby High School/YES Summer Workshop, Rice University, Houston, Texas, June
2004	Invited Panelist, "Politically Incorrect, Fast Pitch, Hardball or Asking the Hard Questions about Diversity in Computing: An Inquisition of Richard Tapia", CRA Conference, Snowbird, Utah, July
2004	"Success For All: Its Contradictions and Challenges", TeacherTECH '04 Awareness Day, Rice University, Houston, Texas, July
2004	Invited address, "A Lifetime of Diversity: Challenges and Successes", CIRTL Conference, Madison, Wisconsin, August
2004	Invited address, H-LSAMP 4th Annual Student Presentation Conference, University of Houston, Houston, Texas, October
2004	Participant, Workshop on Broadening Participation in Computing, Washington, DC, October
2004	"A Lifetime of Diversity: Challenges, Successes, and Rewards," Blackwell-Tapia Conference and Prize Presentation, Los Angeles, California, November
2004	Invited speaker, NSF-Computer Science, Engineering, Mathematics Scholar Awards, Houston Community College, Houston, Texas, November
2005	Invited speaker, Costa Rica Alternative Spring Break Fundraiser, Rice University, Houston, Texas, February
2005	"Examining the Minority-Majority Achievement Gap," UK Education Group Visit, Rice University, Houston, Texas, February
2005	Invited speaker, Latin American Experience 2005 Gala, Museum of Fine Arts Houston, Texas, February
2005	Invited speaker, "A Lifetime of Diversity: Challenges, Successes, and Rewards", Center for Subsurface Modeling, University of Texas, Austin, Texas, March

2005	Participant, EPIC Leadership Team Meeting, Washington, DC, March
2005	Invited speaker, "Promoting Students' Appreciation for Math through Applications to Very Cool Activities," NCTM Annual Meeting, Anaheim, California, April
2005	Invited speaker, "Science Research at your Service: Several Exciting Examples," University of Texas, Brownsville, Texas, April
2005	Invited speaker, "Mentoring Underrepresented Minority Graduate Students," MGE@MSA, Tempe, Arizona, April
2005	Invited speaker, "A Lifetime of Diversity: Challenges, Successes, and Rewards," IMA, Minorities & Applied Mathematics Workshop, University of Minnesota, Minneapolis, Minnesota, April
2005	Invited speaker, "Promoting Appreciation for Mathematics through Applications to Very Cool Activities," Kitchen Lecture, Kalamazoo College, Kalamazoo, Michigan, April
2005	Invited speaker, "Success and Failures of K-12 High Stakes Testing: A Study of Recent Testing in Texas," Kalamazoo College, Kalamazoo, Michigan, April
2005	Invited speaker, "Fusing Art and Mathematics through Cars," Alma Public Schools, Alma, Michigan, April
2005	Participant, EPIC Leadership Team Meeting, Rice University, Houston, Texas, May
2005	Invited workshop leader, "Mentoring Underrepresented Minority Graduate Students: A Faculty Workshop," Indiana University School of Medicine, Indianapolis, Indiana, May
2005	Invited speaker, "Reflections on the Achievement Gap," RUSMP/MLI, Pin Oak Middle School, Houston, Texas, June
2005	"Promoting Students' Appreciation for Math through Applications to Very Cool Activities," South Texas Science Academy Visit, Rice University, Houston, Texas, June
2005	"Success For All: Its Contradictions and Challenges," TeacherTECH '05 Awareness Day, Rice University, Houston, Texas, June
2005	Invited speaker, "Examining the Minority-Majority Achievement Gap," RUSMP/MLI, Pin Oak Middle School, Houston, Texas, June
2005	Invited speaker, "Promoting Students' Appreciation for Math through Applications to Very Cool Activities," RUSMP/MLI, Pin Oak Middle School, Houston, Texas, June
2005	Invited speaker, "A Lifetime of Diversity: Challenges, Successes, and Rewards," RUSMP/MLI, Pin Oak Middle School, Houston, Texas, June
2005	"Promoting Students' Appreciation for Math through Applications to Very Cool Activities," Milby Yes Visit, Rice University, Houston, Texas, June
2005	Keynote speaker: "STEM Leadership in the 21st Century: Are You Willing to Lead?," 2005 National Science Foundation Intern Summit, National Science Foundation, Washington, DC, July
2005	Invited luncheon speaker, Diversity Day, SIAM Annual Meeting, New Orleans, Louisiana, July

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Graduate Student Workshop on Diversity, Diversity Day, SIAM Annual Meeting, New Orleans, Louisiana, July
Keynote speaker, "Mathematics is Everywhere in My Real Life," Title V Mathematics Workshop, Title V Faculty Leadership Program, Houston Community College System Houston, Texas, August
Invited speaker, "A Lifetime of Diversity: Challenges, Successes, and Rewards," University of California-Berkeley, Berkeley, California, September

2005 Participant, Public and Research Advisory Committee Meeting, Austin, Texas, September

- 2005 Invited speaker, "Mentoring Underrepresented Minority Graduate Students" Minority Graduate Education at Mountain State Alliance (MGE@MSA) Utah Faculty Mentoring Institute, September
- 2005 Participant, EPIC All Hands Meeting, Albuquerque, New Mexico, October
- 2005 Invited Panelist, "Leadership: A Diverse Perspective", Richard Tapia Celebration of Diversity in Computing Symposium, Albuquerque, New Mexico, October
- The Richard Tapia Celebration of Diversity in Computing Symposium, Albuquerque, 2005 New Mexico, October
- 2005 "Education for All: Successes and Challenges," UK Education Group Visit, Rice University, Houston, Texas, October
- Invited speaker, "Mentoring Underrepresented Minority Graduate Students", COMPACT 2005 for Faculty Diversity, 2005 Institute on Teaching and Mentoring, Arlington, Virginia, October
- Invited speaker: "A Lifetime of Diversity: Challenges, Successes, and Rewards -2005 Examining the Minority-Majority Achievement Gap", COMPACT for Faculty Diversity, 2005 Institute on Teaching and Mentoring, Arlington, Virginia, October
- 2005 Invited speaker, "Education Today: Challenges and Successes", Society of Rice University Women, Houston, Texas, October
- 2005 Invited speaker, "Diversity is Stepping on the Toes of Underrepresentation." Quarterly Community Dialogues, Rice University, Houston, Texas, November
- 2005 Welcome Address, SOLAR Homecoming, Rice University, Houston, Texas, November
- Reactor for the paper entitled "It's Not Rocket Science: 25 Years of Successful Latino 2005 Student Advancement and the Prospects for 25 Years More" by Gary Keller, and Antonio G. García which will appear in the July 2006 issue of The Journal of Hispanic Higher Education, Latino Achievement in the Sciences, Technology, Engineering and Mathematics Invitational Conference, Princeton, New Jersey, November
- 2005 Invited speaker, "Successes and Challenges in Diversifying Rice, Research Universities, and he National Scientific Workforce", University Professor Lecture, Rice University, Houston, Texas, November
- 2006 Invited speaker, "Mentoring Underrepresented Minority Graduate Students," Faculty Mentoring Institute, Las Vegas, Nevada, February
- 2006 Keynote speaker, "Underrepresentation, Diversity, and the Workforce in Science and Engineering," University of California-Berkeley Regents' Lecturer, March

2006	Invited speaker, "Minority Mathematics Professor: A Round Peg in a Square Hole?," Berkeley Diversity Research Initiative Seminar, University of California-Berkeley, March
2006	"Examining the Minority-Majority Achievement Gap," UK Education Group Visit, Rice University, Houston, Texas, April
2006	Invited speaker, "Texas Education Issues," Jewish Community Center, Houston, Texas, April
2006	Invited speaker, "Texas Education Issues," Rice Women's Center, Houston, Texas, April
2006	Invited panelist moderator, "USA Immigration: Truths and Myths," Rice University, Houston, Texas, April
2006	Invited speaker, "Math is Cool," Yes College Preparatory Southeast, Houston, Texas, April
2006	Invited speaker, "Maintaining the Health of the Nation through Diverse Workforce," Diversity Summit 2006, Sugar Land, Texas, April
2006	Invited speaker, "Math is Cool," Arlington Independent School District, Arlington, Texas, May
2006	Invited speaker, "Promoting Innovation Through Increased Diversity", NSF & the National Center for Women & IT (NCWIT) joint Town Hall Meeting, Washington, D.C, May
2006	Invited speaker, "Challenges and Successes in Providing Quality Science and Math Education for All Our Children," 2nd International Conference on Youth & Education, Corpus Christi, Texas, May
2006	"Challenges in Providing Quality Education in Science and Mathematics for All Children", TeacherTECH '06 Awareness Day, Rice University, Houston, Texas, June
2006	Invited speaker, "Mathematics is Cool," RUSMP/MLI, Pin Oak Middle School, Houston, Texas, June
2006	Invited speaker, "The Changing Demographics of California and Texas and its Impact on Public Education," RUSMP/MLI, Pin Oak Middle School, Houston, Texas, June
2006	Invited speaker, "Diversity versus Underrepresentation," RUSMP/MLI, Pin Oak Middle School, Houston, Texas, June
2006	Invited speaker, "Diversity, Innovation, and our Scientific and Technological Workforce," SIAM Annual Meeting, Boston, Massachusetts, July
2006	Keynote speaker, "Diversity, Innovation, our Scientific and Technological Workforce, and You," Mickey Leland Energy Fellowship Technical Forum (MLEF), Houston, Texas, August
2006	Keynote speaker, Research Alliance in Math and Science, Oak Ridge National Laboratory, Knoxville, Tennessee, August
2006	Invited speaker, "Hispanics and the Challenges of Texas," Hispanic Heritage Month, Kinkaid School, Houston, Texas, September

2006	Invited speaker, "What Universities Still Do Not Understand about Race in America," Doctoral Education and the Faculty of the Future, 2006-2007 CHERI Policy Research Conference, Cornell University, Ithaca, New York, October
2006	Invited speaker, "Judging Performance: The Hispanic Perspective," Hispanic Heritage Month NIH-Hispanic, Employee Organization (HEO) Celebration, Bethesda, Maryland, October
2006	"Education for All: Successes and Challenges," UK Education Group Visit, Rice University, Houston, Texas, October
2006	Invited panelist, "Negotiating the Ideal Faculty Position," A Workshop for Women in Science and Engineering, ADVANCE Institutional Transformation Program, Rice University, Houston, Texas, October
2006	Invited panelist, "The Road to Maturity and Leadership in the Computing Community," Second Academic Workshop for Underrepresented Junior Faculty, College Station, Texas, October
2006	"Education for All: Successes and Challenges," UK Education Group Visit, Rice University, Houston, Texas, November
2006	Invited talk, "Minority Mathematics Professor: A Round Peg in a Square Hole," HLSAMP Conference, Texas State University, Houston, Texas, November
2006	Invited talk, "Math Culture and Minority Success," Leadership Workshop: Finding and Keeping Diverse Graduate Students in the Mathematical Sciences, AIM Research Conference Center (ARCC), Palo Alto, California, December
2006	Invited talk, "Underrepresentation: What Universities Still Don't Understand About Race," CITI@20 Technical Symposium, Rice University, Houston, Texas, December
2006	Invited talk, Computing Alliance for Hispanic – Serving Institutions Advisory Board Meeting, University of Texas at El Paso, El Paso, Texas, December
2007	Invited talk, "Underrepresentation: What American Universities Still Don't Understand About Race," Harvey Mudd College, Claremont, California, January
2007	Invited talk, "Promoting Students' Appreciation for Math through Applications to Very Cool Activities," Colorado College, Colorado Springs, Colorado, March
2006	Invited talk, "Underrepresentation: What Universities Still Do not Understand about Race in America," University of Colorado, Boulder, Colorado, March
2006	Invited talk, "STEM (Science, Technology, Engineering, and Mathematics) Leadership: Where are the Hispanics?" American Association of Hispanics in Higher Education, Costa Mesa, California, March
2007	"Demographics of Country and State," Rice-Houston Alliance for Graduate Education and the Professoriate (AGEP) Faculty Workshop, Rice University, Houston, Texas, April
2007	"Education for All: Successes and Challenges," ISSET Educational Group Visit, Rice University, Houston, Texas, April
2007	Invited talk, "Mentoring Underrepresented Minority Graduate Students," Minority Graduate Education at Mountain State Alliance (<u>MGE@MSA</u>) Faculty Doctoral Mentoring Institute, Arizona State University, Tempe, Arizona, April
2007	Invited talk, "The Minority-Majority Achievement Gap: How Do We Close It?"

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	Mathematics Leadership Institute, Houston, Texas, June
2007	Invited talk, "Math Faculty Representation: New Games Bring New Challenges," Mathematics Leadership Institute, Houston, Texas, June
2007	Invited panelist, "Constitution Day Event- Affirmative Action: Past, Present, and Future," Baker Institute Student Forum, Rice University, Houston, Texas, September
2007	Invited talk, "Math and Science Education for All: A Challenge to the Greatness of Texas," The Academy of Medicine, Engineering and Science of Texas - Baker Institute, Rice University, October
2007	Keynote address, "Promoting Students' Appreciation for Math Through Applications to Very Cool Activities," SACNAS National Conference 2007, Kansas City, Kansas, October
2007	"Promoting Students' Appreciation for Math Through Applications to Very Cool Activities," Richard Tapia Celebration of Diversity in Computing, Orlando, Florida, October
2007	The Richard Tapia Celebration of Diversity in Computing, Orlando, Florida, October
2007	Invited talk, "Academic Diversity: A Look at Race, Ethnicity, and Gender in Higher Education," Newsmaker Media Briefing, National Press Club, Washington, DC, October
2007	Invited talk, "Academic Diversity: A Look at Race, Ethnicity, and Gender in Higher Education," Public Luncheon Briefing, Rayburn House Office Building, Washington, DC, October
2007	"Promoting Students' Appreciation for Math Through Applications to Very Cool Activities," Third Annual Texas Undergraduate Mathematics Conference, Sam Houston State University, Huntsville, Texas, November
2007	Planned, organized and presented "Cars and Education: A Good Fit" for an audience of parents, students and teachers for "Engineering Speed" Student Day at the 48th Annual Houston AUTORAMA, George R. Brown Convention Center, Houston, Texas, November
2007	Panelist, Professionalism Panel, 2007 Academic Workshop for Underrepresented Participants (assistant faculty, associate faculty, and senior doctoral students), Texas A&M University, College Station, Texas, November
2008	Invited speaker "Math and Science Education for All: A Challenge to the Greatness of Texas," Texas A&M University, College Station, Texas, February
2006	Invited speaker "Community College: A Path to Many Places," Houston Community College's Annual Faculty Conference, Houston, Texas, February

2008	Invited speaker, "RACE for an Engineering Career Day," Rice University, Houston, Texas, March
2008	"Promoting National Leadership," Empowering Leadership Texas Meeting, Rice University, Houston, Texas, April
2008	"Fusing Art and Mathematics Through Cars: The Construction of a Psychedelic Show Car Video," Bailey Middle School Visit, Rice University, Houston, Texas, April
2006	Invited commencement address, "The Road Ahead," Claremont Graduate University, Claremont, California, May
2008	Invited speaker, "Underrepresentation: External Factors," Mathematics Leadership Institute, Pin Oak Middle School, Houston Texas, June
2008	Invited speaker, "Underrepresentation: Internal Factors," Mathematics Leadership Institute, Pin Oak Middle School, Houston Texas, June
2008	Invited welcome address, Hispanic Engineer National Achievement Awards Conference (HENAAC) Summit, Houston, Texas, July
2008	Invited address, "The Flaws in the Mismatch Theory," Testimony before the U.S. Commission on Civil Rights Briefing on Encouraging Minorities to Pursue Careers in Science, Technology, Engineering, and Mathematics, Washington, DC, September
2008	Keynote address, 2008 Ford Fellows' Conference "Bringing Our Research Home: Activist Scholarship for Systemic Change," Washington, DC, September
2008	Presentation to the Committee on Underrepresented Groups and the Expansion of the Science and Technology Workforce Pipeline, The National Academies, Washington, DC, October.
2008	Organized "Engineering Speed-Student Day," 49th Annual Houston Autorama, George R. Brown Convention Center, Houston, Texas, November
2006	"Education for All: Successes and Challenges," ISSET Visitors-UK, Rice University, Houston, Texas, February
2009	Invited panelist, The Status of Hispanics in America: Challenges and Opportunities, American Association of Hispanics in Higher Education (AAHHE) Conference, San Antonio, Texas, March
2009	The Richard Tapia Celebration of Diversity in Computing, Portland, Oregon, April
2009	Invited address "Math is Cool," Hispanic Male Summit, Lone Star College - North Harris, Kingwood, Texas, April
2009	Invited address, MLI 3 rd Cohort, Mathematics Leadership Institute, Pin Oak Middle School, Houston Texas, June

2009	Invited speaker, "Contemporary Challenges to Increasing Representation in Research and Leadership Positions," 15 th Annual Conference for African-American Researchers in the Mathematical Sciences (CAARMS15), Rice University, Houston, Texas, June
2009	Invited speaker, Diversity Symposium, Georgia Tech University, Atlanta, Georgia, September
2010	Invited speaker, Second Annual Arizona MGE@MSA Faculty Postdoctoral Mentoring Institute Arizona State University Tempe, Arizona, January
2010	Invited speaker, "Yet Two More Bumps in the Road to Equitable Representation in Higher Education" Seminar on Underrepresentation and the Mathematical Sciences Harvey Mudd College Claremont, California, January
2010	Special Advisory Group to the UT System Board of Regents regarding the possible merger of San Antonio institutions Dr. Tapia was a committee member. San Antonio, TX February
2010	Invited speaker, International Space School Education Trust (ISSET) - UK Group Visit – Chris Barber Director accompanied a group of teachers visiting Houston. Dr. Tapia gave a presentation and followed with a Q&A session in Duncan Hall. February
2010	Invited speaker, "The Remarkable Isoperimetric Problem and the Euler-Lagrange Equation Revisited" Stanford Operations Research Seminar Series Stanford University Stanford, California, March
2010	Invited speaker, "It's All About Math" Plenary Session American Association of Hispanics in Higher Education (AAHHE) 5th Annual National Conference Costa Mesa, California, March
2010	Invited speaker, "Yet Two More Bumps in the Road to Equitable Representation in Higher Education" Community Dialogue Luncheon Rice University Houston, Texas, March
2010	Invited speaker, Commencement Address University of Texas-Pan American Edinburg, Texas, May
2010	Joint Advisory Board meeting, Texas Higher Education Coordinating Board, Dr. Tapia is a committee member and reviewed proposals to the THECB Austin, Texas, June
2010	LATINA VOICES: Smart Talk show on PBS Dr. Tapia was invited to discuss underrepresented minority issues. Houston, Texas, August
2010	Invited speaker, "Science, Technology & Diversity for a Sustainable Future Global Excellence" SACNAS Keynote Address, Society for the Advancement of Chicano and Native Americans in Science (SACNAS) Annual Conference Anaheim, California, September
2010	"The Browning of America: Cause for Celebration or Concern?" National Hispanic Heritage Month National Science Foundation Arlington, Virginia, October

2010	Invited speaker, MGE@MSA Doctoral Mentoring Institute, The University of Utah Salt Lake City, Utah, October
2010	Invited speaker, Blackwell-Tapia Conference Mathematical Biosciences Institute (MBI) Columbus, Ohio, November
2010	Invited speaker, SOC 314 "Science at Risk", Rice University, Houston, Texas, November
2010	Invited speaker, Natural Sciences and Mathematics Career Forum University of St. Thomas, Houston, Texas, November
2010	Invited speaker, Commencement Address University of Nevada-Reno Reno, Nevada, December
2011	Invited speaker, Educating Texas' Future Innovators 8th Annual Conference of The Academy of Medicine, Engineering and Science of Texas (TAMEST) Austin, Texas, January
2011	Invited speaker, Failure for CSCI 299, Rice University, Houston, Texas, March
2011	Invited speaker, The BFGS Secant Update as a Simple Average Update, Department of Computational and Applied Mathematics Graduate Seminar, Rice University, Houston, Texas, March
2011	Invited speaker, The Historical Development of the Rice CAAM Department, Department of Computational and Applied Mathematics, Rice University, Houston, Texas, March
2011	Invited speaker, Rice Undergraduate Scholars Program (RUSP), Rice University, Houston, Texas, March
2011	Invited speaker, Educating the Nation's Future Innovators - The Role of HBCUs and HSIs The Department of Defense Western Regional HBC/MI Meeting, Houston, Texas, June
2011	Invited speaker, Engaging Students with Exciting Math Applications IRACDA Conference, Baylor, Houston, Texas, June
2011	Invited speaker, Commencement speaker, East Los Angeles College, Los Angeles, California, June
2011	Invited speaker, Summer Math Days, Rice University, Houston, Texas, June
2011	Invited speaker, RUSMP Summer Program, Rice University, Houston, Texas, June
2011	Invited speaker, Educating The Nation's Future Innovators 2011 APS-IPPC Joint Meeting Honolulu, Hawaii, August
2011	Invited speaker, The Need for New Leadership: Crisis in Higher Education, More Graduate Education at Mountain States Alliance (MGE@MSA), Albuquerque, New Mexico, September
2011	Invited speaker, The Need for New Leadership: Crisis in Texas Higher Education, ELA/RCEL, Rice University, Houston, Texas, September

2011	Invited speaker, The Need for New Leadership: Crisis in Higher Education, Presidential Lecture on Diversity, University of Illinois, Chicago, Illinois, October
2011	Invited speaker, The Need for New Leadership: Crisis in Higher Education, Fall Joint Meeting Texas Section of TSAPS, SPS and AAPT, Texas A&M University, Commerce, Texas, October
2011	Invited speaker, Crisis in Higher Education, Fifth Annual Mathematical Field of Dreams Conference, Arizona State University, Tempe, Arizona, October
2011	Invited speaker, In Extreme Science and Engineering Discovery, What Role Will You Play? XSEDE Meeting, SC11 Conference, Seattle, Washington, November
2011	Invited speaker, Institutional Leadership and the Problem of Underrepresentation in STEM, AAAS Access and Diversity Workshop, Rice University, Houston, Texas, December
2011	Invited speaker, Crisis in Texas Higher Education: The Need for New Leadership, Something New for Lunch, Rice University, Houston, Texas, December
2011	Invited speaker, The Need for New Leadership: Crisis in Texas Higher Education, ExxonMobil Global Organization for the Advancement of Latinos, Petroleum Club of Houston, Houston, Texas, December
2011	Invited speaker, The Need for New Leadership: Crisis in Texas Higher Education, M.D. Anderson Awards Ceremony, Houston, Texas, December
2012	Invited speaker, RUSP Talk, D. Wagner and M. Gillis course, Rice University, Houston Texas, January
2012	Invited speaker, The Need for New Leadership: Crisis in Texas Higher Education, TACHE Conference, Galveston, Texas, February
2012	Invited speaker, The Need for New Leadership: Crisis in Texas Higher Education, MLK Celebration, Massachusetts Institute of Technology, Cambridge, Massachusetts, February
2012	Invited speaker, The Need for New Leadership: Crisis in Texas Higher Education, ISSET, Rice University, Houston, Texas, February
2012	Invited speaker on diversity panel, Alumni College Diversity Panel, Rice University, Houston, Texas, March
2012	Invited speaker, Crisis in Academia: The Need for New Leader, Purdue University, West Lafayette, Indiana, March
2012	Invited speaker, Crisis in Texas Higher Education: The Need for New Leadership, UT- Austin Undergraduate Distinguished Lecture Series, Austin, Texas, April
2012	Invited speaker, The Need for New Leadership: Crisis in Texas Higher Education, Learning Activities for Mature People (LAMP) of the University of Texas at Austin, Austin, Texas, April

2012	Invited speaker, The Precious Few: Why Are There So Few? Blackwell Memorial Conference, Washington, DC, April
2012	Invited speaker, Crisis in Higher Education: The Need for New Understanding, Diaz- Herrera Inauguration, Keuka College, Keuka Park, New York, May
2012	Invited speaker, Crisis in Higher Education: The Need for New Understanding, 2012 Diversity Summit – Keynote Address, Sugarland, Texas, May
2012	The Need for New Leadership: Crisis in Texas Higher Education. International Space School Education Trust (ISSET) Leadership Program, Rice University, Houston, Texas, May
2012	How Will We Rise to the Challenge of Educating the Next Generation?, Stephen F. Austin High School, HISD, White Rose Luncheon, University of Houston, Houston, Texas, May
2012	Crisis in Higher Education: The Need for New Understanding, 10th Annual Disparities in Health in America: Working Toward Social Justice Workshop/Course, Houston, Texas, June
2012	Barrera Student Group Visit, Rice University, Houston, Texas, June
2012	Crisis in Higher Education: The Need for New Leadership, XSEDE12 Bridging from the eXtreme to the Campus and Beyond, Chicago, Illinois, July
2012	SHPE Freshman Welcome, Rice University, Houston, Texas, August
2012	Choosing the Right Advisor - STEM, Panel Discussion, office of Graduate and Postdoctoral Studies, Rice University, Houston, Texas, September
2012	Invited speaker, Hispanic Alumni College, Rice University, Houston, Texas, September
2012	Nuestro Futuro Latino Education Conference, Washington, DC, September
2012	Crisis in Texas Higher Education: The Need for New Leadership, Families Weekend, Rice University, Houston, Texas, September
2012	Crisis in Higher Education: The Need for New Leadership, Hispanic Heritage Month, Johnson Space Center, Houston, Texas, October
2012	From Cars to Math and Back to Cars, EMERGE Fellows Visit, Rice University, Houston, Texas, December
2013	Crisis in Higher Education: The Need for New Leadership, Department of Mathematics, University of Michigan's Martin Luther King Jr. Symposium, Ann Arbor, Michigan, January
2013	From the Barrios of Los Angeles to the National Medal of Science at the White House, 2013 Undergraduate STEM Research Symposium, Rice University, Houston, Texas, January

2013	Presentation to the Rice Undergraduate Scholars Program, Rice University, Houston, Texas, January
2013	Crisis in Higher Education: The Need for New Understanding and New Leadership, Spring Networking Conference, Rice University School Mathematics Project, Houston, Texas, February
2013	Mellon Mays Program, Rice University, Houston, Texas, February
2013	Richard Tapia Celebration of Diversity in Computing Conference, Washington, DC, February
2013	Crisis in Higher Education: The Need for New Understanding and New Leadership, Lehigh University, Bethlehem, Pennsylvania, February
2013	Crisis in Higher Education: The Need for New Understanding and New Leadership, MGE@MSA, Arizona State University, Phoenix, Arizona
2013	Ahora Student Day, Latino Magazine, Rice University, Houston, Texas, March
2013	Panel Discussion, Friends of the National Museum of the American Latino Town Hall Meeting, Rice University, Houston, Texas, May
2013	Gear Up – Student Leadership Conference, Rice University, Houston, Texas, May
2013	The Road Ahead, Portland State University Commencement Address, Portland, Oregon, June
2013	Energy Explorations Academy, Rice University, Houston, Texas, June
2013	Dr. Richard Tapia, My Story: Who am I?, XSEDE 13 Gateway to Discovery, San Diego, California, July
2013	Mathematics is Cool: Improving the Quality of My Non-Professional Life, NWRC Cash Family Distinguished Lecture, Texas Tech University, Lubbock, Texas, July
2013	New student reception, Hispanic Association for Cultural Enrichment at Rice (HACER), Rice University, Houston, Texas, August
2013	Crisis in Higher Education: The Need for New Understanding and New Leadership, College Career Counseling, Grand Hall, Rice Memorial Center, Rice University, Houston, Texas, October
2013	STEM Education Crisis: Understanding the Needs to Ensure Diversity and Inclusion Toward US Competitiveness in the Technical Fields, Boeing Leadership Development, Rice University, Houston, Texas, December
2014	Access and Opportunities in STEM Education: The Challenges of Building an Equitable Diverse Society, 2014 Joint Mathematics Meeting, Baltimore, MD, January
2014	From the Barrios of Los Angeles to the National Medal of Science at the White House, Richard Tapia Celebration of Diversity in Computing, Seattle, Washington, February
2014	Rice University Richard Tapia Center for Excellence & Equity, Something New for Lunch Lecture Series, Rice University, Houston, Texas, February

2014 My Unlikely Journey: From the Barrios of Los Angeles to the White House and the National Medal of Science, Excellence in Mentoring Lecture Series, El Paso, Texas, February 2014 The STEM Education Crisis: Understanding the Needs to Ensure Diversity and Inclusion toward US Competitiveness in the Technical Fields, 8th Annual Hispanic Family Conference, Engaging Hispanic Families: Why it Matters and How to do it Well, Pasadena, Texas, February 2014 Invited speaker, Racism in Mathematics: A Direct Factor in Underrepresentation, Rice Undergraduate Scholars Program (RUSP), Rice University, Houston, Texas, March 2014 Racism in Mathematics: A Direct Factor in Underrepresentation, Highlighting Hispanic Figures, Empowering Leadership Alliance, Rice University, Houston, Texas, March 2014 My Unlikely Journey: From the Barrios of Los Angeles to the White House and the National Medal of Science, Empowering Leadership Alliance, Department of Computer Science, University of Texas-Austin, Austin, Texas, April 2014 My Unlikely Journey: From the Barrios of Los Angeles to the White House and the National Medal of Science, XSEDE and Empowering Leadership Alliance Webinar, Rice University, Houston, Texas, April Closing remarks, American Latino Influencer Awards, Friends of the American Latino 2014 Museum, Grand Hall, Rice University, Houston, Texas, April 2014 My Unlikely Journey: From the Barrios of Los Angeles to the White House and the National Medal of Science, Men of Honor Lecture Series, Houston Community College, Houston, Texas, May 2014 Crisis in Higher Education: The Need for New Understanding and New Leadership, National Science Board, National Science Foundation, Arlington, Virginia, May Panel discussion, Leading Change, Faculty Commitment, Leadership Challenges, 2014 Communication, Workshop on Faculty Leadership in Engineering, Texas A&M University, College Station, Texas, May 2014 Panel discussion, Addressing Disparities in STEM Education, Symposium on Advancing Equity through More and Better STEM Learning, National Academy of Sciences, Keck Center, Washington, DC, May 2014 My Unlikely Journey: From the Barrios of Los Angeles to the White House and the National Medal of Science, Young Owls Leadership Program, Rice University, Houston, Texas, June 2014 Panel discussion, Latinos: We are here but we are Not There, Texas LULAC State Convention Education Workshop, Houston, Texas, June 2014 Racism in Mathematics: A Direct Factor in Underrepresentation, Rice University School Mathematics Project (RUSMP) Colloquium Presentation, Houston, Texas, June 2014 STEM Underrepresentation: Hugs and Kisses Are Great But Not Enough to Improve Representation, The Latino Education Summit "Making our world Better Together," Rice University, Houston, Texas, August 2014 Addressing STEM Challenges in the Texas Energy Workforce, Panel Discussion, Energizing Texas with AE2C Workshop, Asian Americans in Energy, the Environment and Commerce, Hilton Americas, Houston, Texas, September

2014	The Need for New Leadership: Crisis in Texas Higher Education, UK ISSET Group, Rice University, Houston, Texas, September
2014	Crisis in Higher Education: A Need for New Leadership, Men of Color Leadership Symposium, Rice University, Houston, Texas, October
2014	Crisis in Higher Education: The Need for New Understanding and New Leadership, ExxonMobil Hispanic Heritage Month, Beaumont, Texas, October
2014	Crisis in Higher Education: The Need for New Understanding and New Leadership, Distinguished Lecture on Diversity in Higher Education, University of Delaware, Newark, Delaware, October
2014	Crisis in Higher Education: The Need for New Understanding and New Leadership, Distinguished Lecture on Diversity in Higher Education, Welch Conference, Houston, Texas, October
2014	Crisis in Higher Education: The Need for New Understanding and New Leadership, Distinguished Lecture on Diversity in Higher Education, National Institute of Standards and Technology, Gaithersburg, Maryland, December
2015	Invited address, "Crisis in Higher Education: The Need for New Understanding and New Leadership," Mexican American School Board Members Association Annual Convention (MASBA), Austin, Texas, January
2015	Tapia Symposium, Boston, Massachusetts, February
2015	Keynote speaker, "Crisis in Higher Education: The Need for New Understanding and New Leadership," Brown 250th National Diversity Summit, Brown University, Providence, Rhode Island, March
2015	Invited address, "Crisis in Higher Education: The Need for New Understanding and New Leadership," Rice University Scholars Program (RUSP), Rice University, Houston, Texas, March
2015	Invited address, "I lived the American Dream: From the Barrios of Los Angeles to the White House and The National Medal of Science," Faculty Appreciation and Awards Luncheon, C.T. Bauer College of Business, University of Houston, Houston, Texas, March
2015	"Crisis in Higher Education: The Need for New Understanding and New Leadership," International Space School Educational Trust (ISSET) Visit, Rice University, Houston, Texas, April
2015	Invited address, "Math at Top Speed - The Role of Mathematics in Science and in my Personal Life," Thinking Out Loud Workshop, Brown University, Providence, Rhode Island, April
2015	"I lived the American Dream: From the Barrios of Los Angeles to the White House and The National Medal Science," University of California-Merced, Merced, California, May

2015 Commencement address, University of California-Merced, Merced, California, May

2015	"My Unlikely Journey: From the Barrios of Los Angeles to the White House and the National Medal of Science," Young Owls Leadership Program, Rice University, Houston, Texas, June
2015	Commencement address, UCLA, Los Angeles, California, June
2015	"The Role of Mathematics in Science and in My Personal Life," Tapia Math Science Scholars Program (TMSS), Rice University, Houston, Texas, July
2015	"Crisis in Higher Education: The Need for New Understanding and New Leadership," Tapia Math Science Scholars Program (TMSS), Rice University, Houston, Texas, July
2015	Invited address, "The Role of Mathematics in Science and in My Personal Life," Carolyn Nichol's Applied Math Program, Rice University, Houston, Texas, July
2015	Invited address, "Math at Top Speed: The Role of Mathematics in Science and in My Personal Life," MathFest, Washington, DC, August
2015	"My Unlikely Journey: From the Barrios of Los Angeles to The White House and The National Medal of Science," New Student Reception, HACER, Rice University, Houston, Texas, August
2015	"My Unlikely Journey: From the Barrios of Los Angeles to The White House and The National Medal of Science," Tapia Math Science Scholars Program (TMSS), Rice University, Houston, Texas, August
2015	"Rice Graduate Education for Minorities," RGEM Meeting, Rice University, Houston, Texas, September
2015	Keynote address, "Math at Top Speed: The Role of Mathematics in Science and in My Personal Life," Rice University School Mathematics Project (RUSMP), Rice University, Houston, Texas, September
2015	Panelist, ExxonMobil Hispanic Heritage Celebration, ExxonMobil, Spring, Texas, October
2015	Invited speaker, "Inequality in the Stem Representation in Today's Research 1 Universities: The Role of Racism," Scientia, Rice University, Houston, Texas, December
2016	"Inequality in STEM Representation in Today's Research 1 Universities: The Role of Racism" Rice Undergraduate Scholars Program, Rice University, Houston, Texas, March
2016	"Building a Culture of Diversity in Graduate Education: Obstacles and Successes" Western Association of Graduate Schools (WAGS), Socorro, New Mexico, March
2016	"Building a Culture of Diversity in Higher Education: Obstacles and Successes" Holmes Lectures in Mathematics, Bowdoin College, Brunswick, Maine, April
2016	"Building a Culture of Diversity in Higher Education: Obstacles and Successes" Provost's Lecture Series, SUNY Stony Brook University, Stony Brook, New York, April
2016	"Drawing Diversity to Academia," SUNY Stony Brook University, Stony Brook, New York, April
2016	"Building a Culture of Diversity in Higher Education: Obstacles and Successes" Oregon State University, May
2016	"Using Mathematics to Enhance my Personal Life" Reasoning Mind Seminar, Houston, Texas, May

2016	"The Road Ahead," Commencement Address/Recipient of an Honorary Doctorate University of Rhode Island, Kingston, Rhode Island, May
2016	"My Unlikely Journey: From the Barrios of Los Angeles to the White House and The National Medal of Science" Young Owls Leadership Program, Rice University, Houston, Texas, June
2016	"Crisis in Higher Education: The Need for New Understanding and New Leadership," Tapia Math-Science Scholars Program, Rice University, Houston, Texas, July
2016	"The Role of Mathematics in Science and in My Personal Life, Tapia Math-Science Scholars Program," Rice University, Houston, Texas, July
2016	Invited panelist, CS4Texas Statewide Meeting - Spread Computer Science in Texas, December
2017	"Inequality in STEM Representation in Today's Research 1 Universities: The Role of Racism," Public Science Communications Class, Rice University, Houston, Texas, January
2017	"Tapia Camps," Dallas Independent School District STEM Day, Dallas, Texas, February
2017	Invited panelist, "Changing the Landscape," Committee on Opportunities in Science (COOS) and Committee on Science and Technology Engagement with the Public (CoSTEP) Dinner, AAAS Annual Meeting, Boston, Massachusetts, February
2017	Invited panelist, Innovation in Education Panel, James A. Baker Institute, Rice University, Houston, Texas, April
2017	"The Road Ahead," Commencement address, Harvey Mudd College, Claremont, California, May
2017	"My Unlikely Journey: From the Barrios of Los Angeles to the White House and The National Medal of Science," Young Owls Leadership Program, Rice University, Houston, Texas, June
2017	"Using Mathematics to Enhance My Personal Life," Young Owls Leadership Program, Rice University, Houston, Texas, June
2017	"Room at the Top: We the Underrepresented Minorities are here; but we are not there," 2014 Robert Noyce Teacher Scholarship Program presentation, Rice K-8 School, Houston, Texas, June
2017	Panelist, STEM Diversity Panel, 2014 Robert Noyce Teacher Scholarship Program, Rice K-8 School, Houston, Texas, June
2017	"Using Mathematics to Enhance my Personal Life," ConocoPhillips Applied Mathematics Program (AMP!), Rice University, Houston, Texas, June
2017	"Room at the Top: We the Underrepresented Minorities are here; but we are not there," Community Dialogue, Ripley House, Houston, Texas, June
2017	"Using Mathematics to Enhance my Personal Life," Tapia Camps, Rice University, Houston, Texas, June
2017	"My Unlikely Journey: From the Barrios of Los Angeles to the White House and The National Medal of Science," HACER New Student Reception, Rice University, Houston, Texas, August

2017	"My Unlikely Journey: From the Barrios of Los Angeles to the White House and The National Medal of Science," New Caney Middle School Visit, Rice University, Houston, Texas, October
2018	"Crisis in Representation in STEM Higher Education: The Need for New Understanding and New Leadership," Translating Institutional Commitment into Practice Diversity and Education Series, Yale Center for Teaching and Learning (CTL) and the Department of Computer Science, Yale University, New Haven, Connecticut, January
2018	Invited speaker, The Latinx Experience at Rice, Office of Multicultural Affairs, Rice University, Houston, Texas, April
2018	"The Importance of Addressing Historically- Under-served Groups," Partnership Summit 2018: Universities of the Southwest, Rice University, Houston, Texas, April
2018	"Towards New Leadership: Addressing the Representation Gap in Higher Education," 2018 Leadership Forum, Tulane University, New Orleans, Louisiana, May
2018	My Unlikely Journey: From the Barrios of Los Angeles to the White House and the National Medal of Science, Young Owls Leadership Program, Rice University, Houston, Texas, June
2018	Invited Panelist, A Transformational Journey Roundtable Discussion: A Call for Courageous Actions to Change the Broken Paradigm, Changing the Face of STEM Forum, Washington, DC, June
2018	"Room at the Top: We the Underrepresented Minorities are here; but we are not there," 2014 Robert Noyce Teacher Scholarship Program, Rice K-8 School, Houston, Texas, June
2018	Panelist, STEM Diversity Panel, 2014 Robert Noyce Teacher Scholarship Program, Rice K-8 School, Houston, Texas, June
2018	"My Unlikely Journey: From the Barrios of Los Angeles to The White House and The National Medal of Science," Say Stem Tapia Camp Summer Program, Rice University, Houston, Texas, July
2018	"Using Mathematics to Enhance My Personal Life," Say Stem Tapia Camp Summer Program, Rice University, Houston, Texas, July
2018	New student reception, Hispanic Association for Cultural Enrichment at Rice (HACER), Rice University, Houston, Texas, August
2018	ACM Richard Tapia Celebration of Diversity in Computing Conference, Orlando, Florida, September
2018	"My Unlikely Journey: From the Barrios of Los Angeles to The White House and The National Medal of Science," U.S. Department of Justice Hispanic Heritage Celebration, Post Oak Hotel Houston, Houston, Texas, October
2018	"My SACNAS Story," SACNAS Founders and Elders Panel, SACNAS The National Diversity in STEM Conference, San Antonio, Texas, October
2018	"Crisis in Representation in STEM Higher Education: The Need for New Understanding and New Leadership," National Consortium of Secondary STEM Schools, Post Oak Hotel Houston, Houston, Texas, November
2018	Blackwell-Tapia Conference, Providence, Rhode Island, November

2019	Keynote speaker, "From the Barrios of Los Angeles to The White House and The National Medal of Science," 2019 Gulf States Math Alliance Conference, The University of Texas at Arlington, Arlington, Texas, February
2019	Keynote speaker, "From the Barrios of Los Angeles to The White House and The National Medal of Science," 2019 Emerging Research National (ERN) Conference in STEM, Washington, DC, February
2019	National Science & Technology Medals Foundation's An Evening with Richard Tapia, Arlington, Texas, March
2019	"From the Barrios of Los Angeles to The White House and The National Medal of Science," Distinguished Speaker Series, Lone Star College - CyFair, Cypress, Texas, March
2019	"From the Barrios of Los Angeles to The White House and The National Medal of Science," Rice University, Houston, Texas, April
2019	"The Need for New Understanding and New Leadership in STEM Higher Education," Friends of Fondren Library Special Occasion Events Honoring Phoebe and Bobby Tudor, Houston, Texas, April
2019	"Room at the Top: The Lack of Domestic Minority Faculty at Our Research Institutions," 2019 Engineering Deans Institute (EDI) American Society for Engineering Education, San Antonio, Texas, April
2019	"Room at the Top: The Failures of the Mathematics Pipeline for Minorities," Houston City Council Subcommittee for Education, Houston, Texas, April
2019	"From the Barrios of Los Angeles to The White House and The National Medal of Science," The Molecular Science Software Institute Workshop, Rice University, Houston, Texas, June
2019	"From the Barrios of Los Angeles to The White House and The National Medal of Science," Tapia Camps, Rice University, Houston, Texas, July
2019	"Behind the Scenes: The David Blackwell that I Knew," A Centennial Celebration of David Harold Blackwell, MathFest, Mathematical Association of America, Cincinnati, Ohio, August
2019	"My Unlikely Journey: From the Barrios of Los Angeles to The White House and The National Medal of Science," New Student Reception, HACER, Rice University, Houston, Texas, August
2019	Reflections on El Paso: A Time for Unity Panel, Rice University, Houston, Texas, September
2019	"A Conversation with Richard Tapia," Birds of a Feather Session, Richard Tapia Celebration of Diversity in Computing Conference, San Diego, California, September
2019	"So you Think You can Explain Tic-Tac-Toe: A STEM Communication Workshop," Richard Tapia Celebration of Diversity in Computing Conference, San Diego, California, September
2019	"My Unlikely Journey from the Barrios of Los Angeles to the White House and the National Medal of Science," Rice University School Mathematics Project Fall Networking Conference, Rice University, Houston, Texas, October

2019	"My Unlikely Journey: From the Barrios of Los Angeles to The White House and The National Medal of Science," Vanguard Academy Charter Schools, Pharr, Texas, October
2020	"Why are Math Colloquium Talks So Awful," Department of Computational and Applied Mathematics Graduate Seminar, Rice University, Houston, Texas, January
2020	"My Unlikely Journey From the Barrios of Los Angeles to The White House and The National Medal of Science," College of Computing Dean's Special Event Series, School of Industrial and Systems Engineering, Office of Minority Educational Development, Georgia Institute of Technology, Atlanta, Georgia, March
2020	"From the Barrios of Los Angeles to the White House," Virtual Rice STEM Summer Seminar Series, Rice University, Houston, Texas, July
2020	Tapia Online Student Camps, Molecular Sciences Software Institute (MolSSI) Workshop, Rice University, Houston, Texas, July
2020	Tapia Online Student Camps, Rice University, Houston, Texas, July
2020	Tapia Center Professional Development Online Workshop, Rice University, Houston, Texas, July
2020	"My Unlikely Journey: From the Barrios of Los Angeles to the White House and the National Medal of Science," Virtual LATINE Latinx Trailblazers in Engineering, College of Engineering, Purdue University, July
2020	"The Civic Scientist My Unlikely Journey From the Barrios of Los Angeles to the White House and the National Medal of Science," Diversity in Science and Engineering, Virtual Civic Scientist Lecture, Baker Institute, Rice University, Houston, Texas, September
2020	"My Unlikely Journey: From the Barrios of Los Angeles to the White House and the National Medal of Science," TB-BTB First Annual Fall STEMinar Series 2020, Virtual LSAMP event, November
2020	Panelist, Moving Forward: U.S. Hispanics Today and Tomorrow, Webinar Panel Discussion, Rice University, Houston, Texas, November
2021	Featured guest, SER Jobs for Progress National, Inc. Virtual Event, January
2021	Featured guest, The Science of Effective Mentoring in STEMM, National Academies of Sciences, Engineering, and Medicine's Science of Mentorship Podcast, January
2021	"My Unlikely Journey: From the Barrios of Los Angeles to the White House and the National Medal of Science," Women in Neuroscience in Honor of Harvey and Judi Nudelman, Monthly Virtual Intern Meeting, February
2021	"Meet a Mathematician: Richard Tapia Virtual Event, National Museum of Mathematics, February

Invited Mathematical Presentations or Participations:

1971	Symposium on Nonlinear Functional Analysis, University of Wisconsin, Madison
1974	Nonlinear Programming I Symposium, University of Wisconsin, Madison
1974	Annual Meeting of the Institute of Mathematical Statistics, Edmonton, Alberta, Canada
1975	Featured speaker: Southern Regional Education Board (SREB) Summer Conference,

	Biloxi, Mississippi
1977	Nonlinear Programming 3 Symposium, University of Wisconsin, Madison
1977	Special Session on Functional Analysis Methods in Numerical Analysis, AMS National Meeting, St. Louis, Missouri
1978	Featured speaker (with J.R. Thompson): Johns Hopkins Distinguished Lecture Series in the Mathematical Sciences, Baltimore, Maryland. Presented 10 lectures.
1978	Conference on Applied Nonlinear Analysis, University of Texas, Arlington, Texas
1978	SIAM Meeting, Columbia, South Carolina
1978	Distinguished Lecture Series, Clemson University, Clemson, South Carolina
1978	1st Mexico-United States Workshop on Numerical Analysis, Mexico City
1979	International Conference on Nonlinear Optimization and Applications sponsored by Italsiel and the Italian Mathematical Society, L'Aquila, Italy
1979	2nd Mexico-United States Workshop on Numerical Analysis, Mexico City
1980	Keynote address: National Meeting of El Congreso Mathematica de Mexico, Monterrey, Mexico
1981	3rd Mexico-United States Workshop on Numerical Analysis, Cocoyoc, Mexico
1981	Present 5 lectures at SIAM Summer Conference on Numerical and Statistical Analysis, University of Delaware, Newark
1981	NATO Advanced Research Institute on Optimization, Cambridge University, Cambridge, England
1983	16th Annual Symposium on the Interface of Computer Science and Statistics, Houston, Texas
1983	3rd Oberwolfach Conference on Mathematical Programming, Oberwolfach, Germany
1984	4th Mexico-United States Workshop in Numerical Analysis, Guanajuato, Mexico
1985	4th Oberwolfach Conference on Mathematical Programming, Oberwolfach, Germany
1987	International Workshop on Reliability in Computing, Columbus, Ohio
1988	5th Oberwolfach Conference on Mathematical Programming, Oberwolfach, Germany
1988	Centennial Lecture, SIAM National Meeting, Minneapolis, Minnesota
1989	Plenary presentation: "Recent Advances in Secant Methods for Constrained Optimization," 3rd SIAM Conference on Optimization, Boston
1989	5th Mexico-United States Workshop in Numerical Analysis, Merida, Yucatan, Mexico
1989	Third International SIAM Meeting on Optimization, Trier, Germany
1990	6th Oberwolfach Conference on Mathematical Programming, Oberwolfach, Germany
1990	4th Conference on Scientific and Technical Computing, sponsored by INRIA, Paris,

	France
1990	Second Asilomar Workshop on Progress in Mathematical Programming, Asilomar, California
1990	TIMS-ORSA National Meeting, Las Vegas, Nevada
1990	 Snowbird Conference for Chairs of Computer Science Departments, sponsored by the Computer Research Board of the Association for Advancement of Computing Research Snowbird, Utah (a) Invited presentation on Educational Pipeline Issues (b) Invited presentation on Academic Computational Sciences Programs (c) Invited presentation on Human Resources
1990	SIAM National Meeting, Chicago, Illinois, July
1990	An Optimization Day in Iowa City, one-day conference on interior-point methods, University of Iowa, July
1990	TIMS-ORSA National Meeting, Philadelphia, Pennsylvania, October
1991	TIMS-ORSA National Meeting, Nashville, Tennessee, May
1991	"The Work of Magnus Hestenes in Constrained Optimization," Hestenes Memorial Symposium, UCLA, November
1992	"Recent Advances in Interior-Point Methods," 6th Mexico-United States Workshop in Numerical Analysis, Oaxaca, Mexico, January
1992	"Convergence of the Iteration Sequence in Primal-Dual Interior-Point Methods for Linear Programming," Fourth SIAM Conference on Optimization, Chicago, May
1992	"Convergence Properties of Primal-Dual Interior-Point Methods for Linear Programming," TIMS-ORSA National Meeting, San Francisco, California, November
1993	Plenary session: "On the Formulation of Interior-Point Methods for Linear and Nonlinear Programming," Panamerican Workshop for Applied and Computational Mathematics, Caracas, Venezuela, January
1993	Plenary session: "The Historical Development of Computational Optimization," regional meeting of the American Mathematical Society, Knoxville, Tennessee, March
1993	"A Primal-Dual Interior-Point Method for Large-Scale Linear Programming," TIMS- ORSA meeting, Chicago, May
1993	Invited address: "On the Historical Development of Theoretical and Computational Optimization Theory," at the XXVI National Congress of the Sociedad Matematica Mexicana (SMM), Morelia, Michoacan, Mexico, October 1993. (Selection made by President of the AMS at the invitation of the President of the SMM), October
1993	"On the Formulation of Interior-Point Methods for Nonlinear Programming," TIMS- ORSA National Meeting, Phoenix, Arizona, November
1994	Invited series of lectures: Distinguished Visitor Program, Department of Mathematics, University of Iowa, Iowa City, Iowa, February
1994	Invited speaker: "On the Formulation of the Karmarkar and Primal-Dual Interior-Point Algorithms for Linear Programming," 15th International Symposium on Mathematical Programming, Ann Arbor, Michigan, August

1995	Invited speaker: "Computational Science: The Contemporary Challenge of Mathematics," Department of Mathematics and Statistics, University of New Mexico, Albuquerque, New Mexico, February
1995	Invited speaker: "On the Formulation of Interior-Point Methods for Linear Programming," Georgia Institute of Technology, Atlanta, Georgia, February
1995	"Interior-Point Methods: An Effective Way of Handling Inequality Constraints," W.M. Keck Center for Computational Biology, Rice University, Houston, Texas, March
1995	Invited speaker: "Rice Activity in Interior-Point Methods for Linear and Nonlinear Programming," Department of Energy, Albuquerque, New Mexico, March
1995	"On the Characterization of Q-Superlinear Convergence of Quasi-Newton Interior-Point Methods for Nonlinear Programming," INFORMS (Institute for Operations Research and the Management Sciences) National Meeting, Los Angeles, California, April
1995	Invited speaker: "Interior-Point Methods for Linear and Nonlinear Programming: An Effective Way of Handling Inequality Constraints," Center for Communications Research, La Jolla, California, June
1995	Invited speaker: "Interior-Point Methods: An Effective Way of Handling Inequality Constraints" The University of Texas at Austin, Austin, Texas, August
1995	"On the Choice of Merit Function for the Primal-Dual Interior-Point Method for Nonlinear Programming," SIAM National Meeting, Charlotte, North Carolina, October
1995	"On the Application of Interior-Point Methodology to Groundwater Remediation," The Fifth Annual Industrial Meeting, University of Texas at Austin, Austin, Texas, October
1996	Invited speaker: "On the Fundamental Role of Interior-Point Methodology in Constrained Optimization," University of Texas at Austin, Austin, Texas, March
1996	Invited speaker: "On the Fundamental Role of Interior-Point Methodology in for Constrained Optimization," Cornell University, Ithaca, New York, April
1996	"On the Global Convergence of Interior-Point Methods for Linear Programming," INFORMS Washington, DC Spring 1996 National Meeting, Washington, DC, May
1996	"On the Application of Interior-Point Methodology to Groundwater Remediation," Fifth SIAM Conference on Optimization, Victoria, BC, Canada, May
1997	"On the Fundamental Role of the Interior-Point Methodology in Constrained Optimization," Department of Computational and Applied Mathematics, Rice University, Houston, Texas, February
1997	"Recent Advances in Interior-Point Methods," Department of Mathematics, University of Houston, Houston, Texas, March
1997	"Contributions to Interior-Point Methodology for Linear and Nonlinear Programming," Applied Mathematical Sciences (AMS) Department of Energy Meeting, Lawrence Berkeley National Laboratory, Berkeley, California, April
1997	"An Algorithmic Linear Programming Paradox: Complexity Versus Performance," Computational Science for the 21st Century, Tours, France, May
1997	"Interior-Point Methods: New Algorithmic Methodology for Large-Scale Inequality

	Constrained Optimization," INTERFACE '97, Houston, Texas, May
1997	"Some Computational Issues Related to Interior-Point Methods for Nonlinear Programming," International Symposium on Mathematical Programming, Lausanne, Switzerland, August
1998	Invited speaker: "Rayleigh Quotient Iteration as Newton's Method," Department of Mathematics, Texas A&M University, College Station, Texas, April
1998	"On the Fundamental Role of Interior-Point Methodology in Constrained Optimization," CITI Distinguished Lecture Series, Rice University, Houston, Texas, October
1999	"Some Mathematical Insights Into Car and Bicycle Racing," The I.E. Block Community Lecture, SIAM Optimization and Annual Meeting, Atlanta, Georgia, May
1999	"On the Fundamental Role of Interior-Point Methodology in Constrained Optimization," Tulane University, New Orleans, Louisiana, September
1999	"On the Fundamental Role of Interior-Point Methodology in Constrained Optimization," Instituto Tecnologico Autonomo de Mexico, Mexico City, Mexico, September
1999	"An Introduction to Computational Optimization Theory," Mathematics and Statistics Scientific Symposia, SACNAS National Meeting, Portland, Oregon, October
1999	Keynote address: "Some Mathematical Insights into BMX Bicycle and Drag Racing," SACNAS National Meeting, Portland, Oregon, October
1999	"Historical Development of the Mathematical and Computational Sciences," J. Ernest Wilkins Jr. Lecture, MathFest IX, Texas Southern University, Houston, Texas, October
1999	"On the Fundamental Role of Interior-Point Methodology in Constrained Optimization," T.J. Watson Research Center, December
2000	"Mathematical Insights in BMX Bicycle and Car Drag Racing," CITI Lecture Series, Computer and the Information Technology Institute, Rice University, Houston, Texas, April
2000	"If It Is Fast, Must It Always Be Newton's Method?" Department of Mathematics, University of Wisconsin, Madison, Wisconsin, April
2000	"If it is Fast, Must it Always be Newton's Method?" Blackwell-Tapia Distinguished Lecture Series, Cornell University, Ithaca, New York, May
2000	"If it is Fast, Must it Always be Newton's Method?" University of Colorado-Boulder, Boulder, Colorado, September
2000	"Computational Biology," Structural and Computational Biology and Molecular Biophysics Program, Baylor College of Medicine, Houston, Texas, November
2000	OMB, Washington, DC, November
2001	"On Sizing and Shifting the BFGS Update within the Sized Broyden Family of Secant Updates," 7th US-Mexico Workshop on Numerical Analysis, Yucatan, Merida, Mexico, January
2001	"If It Is Fast and Effective, It Must Be Newton's Method," Invited Kieval Lecture, Humboldt State University, Arcata, California, March

2001	"Some Mathematical Insights Related to BMX Bicycle and Drag Racing," Humboldt State University, Arcata, California, March
2001	"The Fundamental Role of Interior-Point Methodology in Constrained Optimization," Department of Industrial Engineering, Texas A&M University, College Station, Texas, March
2001	"The Fundamental Role of Interior-Point Methodology in Constrained Optimization," Department of Mathematical Science, University of Texas-El Paso, El Paso, Texas, April
2001	"Open Discussion of Computational Science Education Topics," Contemporary Topics in Computational Science Education Session, Society for Industrial and Applied Mathematics (SIAM) Annual Meeting, San Diego, California, July
2002	"If It Is Fast and Effective, It Must Be Newton's Method," Department of Mathematics, Washington State University, Pullman, Washington, February
2002	"Some Mathematical Insights in BMX Bicycle and Drag Racing," University of Houston- Downtown, Houston, Texas, April
2002	Invited speaker, "Interpreting the Classical Inverse, Shifted, Inverse, and Rayleigh Quotient Iteration Methods as a Standard Formulation of Newton's Method from the Nonlinear Programming Literature," 2nd Annual McMaster Optimization Conference: Theory and Applications (MOPTA 02), Hamilton, Ontario, CANADA, August
2002	Invited speaker, "Some Mathematical Insights Related to Automobile Drag Racing," Conference and Prize in Honor of David Blackwell and Richard A. Tapia, Mathematical Sciences Research Institute, Berkeley, California, November
2002	David Blackwell and Richard Tapia Distinguished Lecture Series in the Mathematical and Statistical Sciences, Berkeley, California, November
2002	Guest speaker, "On a Mathematical Formulation and Solution of the Fair-Lane Assignment Problem in Bicycle Motocross Racing," Department of Electrical and Computer Engineering, Rice University, Houston, Texas, November
2003	Invited keynote address, "Some Mathematical Insights into Car and Bicycle Racing," MAA/AMS Joint Mathematics Meetings, Baltimore, Maryland, January
2003	Invited address, "Interpreting the Classical Inverse, Shifted, Inverse, and Rayleigh Quotient Iteration Methods as a Standard Formulation of Newton's Method from the Nonlinear Programming Literature," Department of Mathematics, Trinity University, San Antonio, Texas, February
2003	Invited address, "Inverse, Shifted Inverse, and Rayleigh Quotient Iteration as Newton's Method," Department of Mathematics, University of Michigan, Ann Arbor, Michigan, March
2003	Invited address, "Math at Top Speed: Mathematical Insights into BMX Bicycle and Car Drag Racing," Houston Community College Central Campus, Houston, Texas, March
2003	Invited address, "Math at Top Speed: Mathematical Insights in BMX Bicycle and Drag Racing" Southwest Texas State University, San Marcos, Texas, April
2003	Invited address, "Inverse, Shifted Inverse, and Rayleigh Quotient Iteration as Newton's Method" California Institute of Technology, Pasadena, California, May
2003	Invited address, "Inverse, Shifted Inverse, and Rayleigh Quotient Iteration as Newton's Method" Purdue University, West Lafayette, Indiana, June

2003	Invited address, "Mathematics is Everywhere in My Real Life," Department of Mathematics, University of Texas El Paso, El Paso, Texas September
2003	Invited address, "Math at Top Speed: Breaking myths in the drag racing folklore" Rice University, Houston, Texas, September
2003	Invited address, "Mathematics in my real life: BMX bicycle racing and the construction of a car show video," Jefferson Lab, Newport News, Virginia, September
2003	Invited address, "Math at Top Speed: Breaking myths in the drag racing folklore" Mathematical Sciences Research Institute (MSRI), Texas Southern University, Houston, Texas, September
2003	Invited address, "Math at Top Speed: Breaking myths in the drag racing folklore" University of Texas - Pan American Mathematics Department, Edinburg, Texas, October
2003	Invited address, "Fusing Art and Mathematics through Cars" Rice University Homecoming Lecture, Houston, Texas, November
2003	Invited address, "Inverse, Shifted Inverse, and Rayleigh Quotient Iteration as Newton's Method" University of Minnesota, Minneapolis, Minnesota, November
2003	Invited address, "Math at Top Speed: Breaking Myths in the Drag Racing Folklore" University of Minnesota IMA Public Lecture Series, Minneapolis, Minnesota, November
2004	Invited address, "Inverse, Shifted Inverse, and Rayleigh Quotient Iteration as Newton's Method" University of Arizona - Math Colloquium, Tucson, Arizona, April
2004	Invited address, "Math at Top Speed: Breaking Myths in the Drag Racing Folklore" University of Arizona public lecture, Tucson, Arizona, April
2004	Invited address, "Inverse, Shifted Inverse, and Rayleigh Quotient Iteration as Newton's Method" International Joint Meeting of the AMS and the Sociedad Matemática Mexicana (SMM), Houston, Texas, May
2004	"Fusing Art and Mathematics through Cars," Families Weekend, Rice University, Houston, Texas, October
2004	David Blackwell and Richard Tapia Distinguished Lecture Series in the Mathematical and Statistical Sciences, Los Angeles, California, November
2005	Invited guest, The Academy of Medicine, Engineering, and Science of Texas Annual Conference, Irving, Texas, January
2005	"Math at Top Speed: Exploring and Breaking Myths in the Drag Racing Folklore," Computational and Applied Mathematics Graduate Seminar Speaker, Rice University, Houston, Texas, January
2005	Invited speaker, "Inverse, Shifted Inverse, and Rayleigh Quotient Iteration as Newton's Method," Distinguished Minority in Engineering Scholars Lecture Series, Northwestern University, Chicago, Illinois, March
2005	Invited speaker, "Promoting Students' Appreciation for Math through Applications to Very Cool Activities," Cesar Chavez Birthday Celebration, Scottsdale, Arizona, April

2005	Invited speaker, "Math at Top Speed: Exploring and Breaking Myths in the Drag Racing Folklore," Annual Meeting of the Michigan Section of the MAA, Alma College, Alma, Michigan, April
2005	Invited speaker, "Inverse, Shifted Inverse, and Rayleigh Quotient Iteration as Newton's Method," Arizona State University, Tempe, Arizona, August
2005	Invited speaker, "Inverse, Shifted Inverse, and Rayleigh Quotient Iteration as Newton's Method," Department of Mathematics, University of California-Berkeley, Berkeley, California, September
2005	Invited speaker, "On Sizing and Shifting the BFGS Update within the Sized-Broyden Family of Secant Updates," MSRI Special Lecture, Berkeley, California, September
2006	Keynote speaker, "Math at Top Speed: Exploring and Breaking Myths in the Drag Racing Folklore," University of California-Berkeley Regents' Lecturer, March
2006	Invited panelist, "Pulmonary Function Imaging from 4D CT for Radiation Oncology," PIONEER Meeting, Trevisio Restaurant, Houston, TX, June
2006	Keynote speaker, "Promoting Students' Appreciation for Math through Applications to Very Cool Activities," Mathematical Association of America, Mathfest 2006, Knoxville, Tennessee, August
2006	Invited speaker, "Math at Top Speed: Exploring and Breaking Myths in the Drag Racing Folklore," SIAM Rice Chapter, Rice University, Houston, Texas, September
2006	Invited speaker, "Inverse, Shifted Inverse, and Rayleigh Quotient Iteration as Newton's Method," International Conference on Numerical Analysis and Optimization dedicated to M.J.D. Powell's 70 th Birthday, Beijing, China, September
2006	Invited speaker, "Math at Top Speed: Exploring and Breaking Myths in the Drag Racing Folklore," Blackwell-Tapia Conference, Minneapolis, Minnesota, November
2006	David Blackwell and Richard Tapia Distinguished Lecture Series in the Mathematical and Statistical Sciences, Minneapolis, Minnesota, November
2006	Invited talk, "Math at Top Speed: Exploring and Breaking Myths in the Drag Racing Folklore," CEEE Middle School Technology Seminar, Rice University, Houston, Texas, December
2007	Invited talk, "On Sizing and Shifting the BFGS Update within the Sized-Broyden Family of Secant Updates." 8 th US-Mexico Workshop on Optimization and its Applications, Huatulco, Oaxaca, Mexico, January
2007	Invited talk, "Promoting Students' Appreciation for Math through Applications to Very Cool Activities," Harvey Mudd College, Claremont, California, January
2007	Invited talk, "Inverse, Shifted Inverse, and Rayleigh Quotient Iteration as Newton's Method," Sandia National Laboratories, Albuquerque, New Mexico, January
2007	Invited talk, "Inverse, Shifted Inverse, and Rayleigh Quotient Iteration as Newton's Method," Colorado College, Colorado Springs, Colorado, March
2007	Invited talk, "Math at Top Speed: Exploring and Breaking Myths in the Drag Racing Folklore," Mathematical Association of America (MAA) Carriage House Mathematical Sciences Conference Center Opening Celebration, Washington, DC, April

2007	Invited talk, "Math at Top Speed: Exploring and Breaking Myths in the Drag Racing Folklore," Broadening Participation and Retaining Underrepresented Students in STEM and Computing Conference, University of California-Los Angeles, Los Angeles, California, November
2007	Invited talk, 'Inverse, Shifted Inverse, and Rayleigh Quotient Iteration as Newton's Method," Department of Mathematical Sciences, University of Texas-El Paso, El Paso, Texas, October
2008	David Blackwell and Richard Tapia Distinguished Lecture Series in the Mathematical and Statistical Sciences, Research Triangle Park, North Carolina, November
2008	Invited talk, "Optimization: The Cradle of Contemporary Mathematics," Fifth Blackwell- Tapia Conference, Hosted by the Statistical and Applied Mathematical Sciences Institute, Research Triangle Park, North Carolina, November
2009	"Optimization: The Cradle of Contemporary Mathematics," Department of Computational and Applied Mathematics Colloquium, Rice University, Houston, Texas, January
2009	Invited talk, "If It's Fast It Must Be Newton's Method, International Conference on Computational and Information Sciences (ICCIS), University of Houston – Downtown, Houston, Texas, May
2009	Richard Tapia 70th Birthday Conference, Rice University, Houston, Texas, May
2009	"Math at Top Speed: Exploring and Breaking Myths in the Drag Racing Folklore," 2009 Alliances for Graduate Education and the Professoriate Summer Program, Rice University, Houston, Texas, June
2009	Invited speaker, "The Remarkable Life of the Isoperimetric Problem: The World's Most Influential Mathematics Problem," Mathematics Leadership Institute, Pin Oak Middle School, Houston Texas, June
2009	Invited speaker, "The Remarkable Life of the Isoperimetric Problem: The World's Most Influential Mathematics Problem," 15 th Annual Conference for African-American Researchers in the Mathematical Sciences (CAARMS15), Rice University, Houston, Texas, June
2009	Invited speaker, "Heavy Metal," Summer Math Days, Rice University, Houston, Texas, June
2009	Invited speaker, "Math at Top Speed: Exploring and Breaking Myths in the Drag Racing Folklore," Engineering Bridge Program (ENGI 101), Rice University, Houston, Texas, July
2010	Invited speaker, "Math at Top Speed: Exploring and Breaking Myths in the Drag Racing Folklore" Dr. Tapia presented a talk to the students of SAE International (formerly Society of Automotive Engineers). University of Texas-Austin Austin, TX, March
2010	Invited speaker, "The Remarkable Isoperimetric Problem and the Euler-Lagrange Equation Revisited" Department of Mathematics Colloquium Series Rice University Houston, Texas April

2010	Invited speaker, "The Remarkable Isoperimetric Problem and the Euler-Lagrange Equation Revisited", Department of Mathematics Colloquium Series University of Houston, Houston, Texas, April
2010	Invited speaker, "The Remarkable Isoperimetric Problem and the Euler-Lagrange Equation Revisited", Department of Mathematics Distinguished Lecture Series University of Texas-Pan American Edinburg, Texas, May
2010	Invited speaker, "Math at Top Speed: Exploring and Breaking Myths in the Drag Racing Folklore," Georgia Tech University, Atlanta, Georgia, September
2010	Invited speaker, "Math at Top Speed: Exploring and Breaking Myths in the Drag Racing", Folklore MBI - COSI - Metro High Public Lecture Series Columbus, Ohio, November
2011	The BFGS Secant Update as a Simple Average Update, Houston, Texas, March
2012	Invited speaker, "Math at Top Speed: Exploring and Breaking Myths in Drag Racing Folklore," Rice University, Houston, Texas, February
2012	Invited speaker, "Math at Top Speed: Exploring and Breaking Myths in Drag Racing Folklore," Purdue University, West Lafayette, Indiana, March
2012	"Fusing Art and Mathematics through Cars: The Construction of a Psychedelic Show Car Video," Unconvention Day, Rice University, Houston, Texas, April
2012	Fusing Art and Mathematics through Cars: The Construction of a Psychedelic Show Car Video, Young Owl Leadership Program, Rice University, Houston, Texas, June
2012	Inverse, Shifted Inverse, and Rayleigh Quotient Iteration as Newton's Method, the International Conference on the Frontier of Computational and Applied Mathematics: Tony Chan's 60th Birthday Conference, IPAM, Los Angeles, California, June
2012	The Isoperimetric Problem Revisited: Extracting a Short Proof of Sufficiency from Euler's 1744 Proof of Necessity, SIAM National Meeting, Minneapolis, Minnesota, July
2012	Everything that You Need to Know about Classes of Secant Updates, IX Brazilian Workshop on Continuous Optimization, Luiz Correia, Piaui, Brazil, August
2013	The Isoperimetric Problem Revisited: Extracting a Short Proof of Sufficiency from Euler's 1744 Proof of Necessity, University of Michigan, Ann Arbor, Michigan, January
2013	The Isoperimetric Problem Revisited: Extracting a Short Proof of Sufficiency from Euler's 1744 Proof of Necessity, Lehigh University, Bethlehem, Pennsylvania, February
2013	Inverse, Shifted Inverse, and Rayleigh Quotient Iteration as Newton's Method, West Coast Optimization Meeting, University of Washington, Seattle, Washington, May
2013	Math at Top Speed: Exploring and Breaking Myths in the Drag Racing Folklore, MathAcrossCampus, University of Washington, Seattle, Washington, June

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2013	Inverse, Shifted Inverse, and Rayleigh Quotient Iteration as Newton's Method, Congreso Mathematico de las Americas, Guanajuato, Mexico, August
2014	The Isoperimetric Problem Revisited: Extracting a Short Proof of Sufficiency from Euler's 1744 Proof of Necessity, University of Texas-El Paso, El Paso, Texas, February
2014	Inverse, Shifted Inverse, and Rayleigh Quotient Iteration as Newton's Method, Department of Computational and Applied Mathematics Colloquium Series, Rice University, Houston, Texas, March
2014	Inverse, Shifted Inverse, and Rayleigh Quotient Iteration as Newton's Method, Department of Computational and Applied Mathematics Colloquium Series, Rice University, Houston, Texas, September
2014	Math at Top Speed: Exploring and Breaking Myths in the Drag Racing Folklore, Rees Lecture Series, University of Delaware, Newark, Delaware, October
2014	Inverse, Shifted Inverse, and Rayleigh Quotient Iteration as Newton's Method, Department of Mathematical Sciences, University of Delaware, Newark, Delaware, October
2014	Inverse, Shifted Inverse, and Rayleigh Quotient Iteration as Newton's Method, President's Distinguished Lecture Series in Engineering, Science, and Medicine, Texas Tech University, Lubbock, Texas, November
2015	The Remarkable Journey of the Isoperimetric Problem: From Euler to Steiner to Weierstrass, AMS-MAA Lecture, Joint Mathematics Meeting, San Antonio, Texas, January
2015	Invited address, "The Remarkable Journey of the Isoperimetric Problem : From Euler to Steiner to Weierstrass," Joint Mathematics Meeting, San Antonio, Texas, January
2015	"The Remarkable Journey of the Isoperimetric Problem: From Euler to Steiner to Weierstrass," Department of Computational and Applied Mathematics Colloquium, Rice University, Houston, Texas, January
2015	Invited address, "Math at Top Speed: Exploring and Breaking Myths in the Drag Racing Folklore," National Mathematics Festival, Washington, DC, April
2015	Invited address, "Using Math to Construct a Psychedelic Video of My 1970 Chevelle Show Car," National Mathematics Festival, Washington, DC, April
2015	Invited address, "The Fair Lane Assignment Problem in BMX Bicycle Racing," National Mathematics Festival, Washington, DC, April
2015	Invited address, "The Fair Lane Assignment Problem in BMX Bicycle Racing," Young Summer Math Days, Rice University, Houston, Texas, June
2015	"Math at Top Speed: Exploring and Breaking Myths in the Drag Racing Folklore," Tapia Math Science Scholars Program (TMSS), Rice University, Houston, Texas, July

2016	Invited address, "The Remarkable Journey of the Isoperimetric Problem: From Euler to Steiner to Weierstrass" Department of Mathematics Colloquium Series, University of Texas-Arlington, Arlington, Texas, January
2016	"The Historical Development of the Rice CAAM Department and Motivating Factors" Department of Computational and Applied Mathematics Colloquium, Rice University, Houston, Texas, February
2016	Invited address, The Fair Lane Assignment Problem in BMX Bicycle Racing," Conversations about Diversity in STEM Education - Holmes Lecture in Mathematics, Department of Mathematics, Bowdoin College, Brunswick, Maine, April
2016	Invited address, "Math at Top Speed: Using Mathematics to Enhance My Son's BMX Bicycle Racing Experience" X-STEM Symposium for the USA Science & Engineering Festival, Walter E. Washington Convention Center, Washington, DC, April
2016	Invited address, "The Remarkable Journey of the Isoperimetric Problem: From Euler to Steiner to Weierstrass" Department of Mathematics, The Simons Center for Geometry and Physics, SUNY Stony Brook University, Stony Brook, New York, April
2016	Invited address, "The Remarkable Journey of the Isoperimetric Problem: From Euler to Steiner to Weierstrass, Loneseth Lecture," Department of Mathematics, Oregon State University, May
2016	"Math at Top Speed: Exploring and Breaking Myths in the Drag Racing Folklore," Tapia Math-Science Scholars Program, Rice University, Houston, Texas, July
2016	"The Fair Lane Assignment Problem in BMX Bicycle Racing," ConocoPhillips Applied Mathematics Program (AMP!), Rice University, Houston, Texas, July.
2016	"The Fair Lane Assignment Problem in BMX Bicycle Racing," Rice Excellence in Mathematics Instruction (REMI) Program, Rice University, Houston, Texas, August
2017	Invited address, "Math at Top Speed: Exploring and Breaking Myths in the Drag Racing Folklore," National Math Festival, Washington, DC, April
2017	Invited address, "Inverse, Shifted Inverse, and Rayleigh Quotient Iteration as Newton's Method," The 6th International Conference on Scientific Computing and Partial Differential Equations on the Occasion of Roland Glowinski's 80th Birthday, Hong Kong Baptist University, Hong Kong, June
2017	Invited address, "The Final Step of the Remarkable Journey of the Isoperimetric Problem: The Completion of Euler's Approach," INFORMS, Houston, Texas, October
2018	"The Conclusion of the Remarkable Journey of The Isoperimetric Problem: The Completion of Euler's Approach," Department of Computer Science and Department of Applied Mathematics, Yale University, New Haven, Connecticut, January
2018	"Math at Top Speed: Exploring and Breaking Myths in the Drag Racing Folklore," Graduate Seminar, Department of Computational and Applied Mathematics, Rice University, Houston, Texas, February
2018	"The Fair Lane Assignment Problem in BMX Bicycle Racing," INFORMS, Rice University, Houston, Texas, November
2019	"Inverse, Shifted Inverse, and Rayleigh Quotient Iteration as Newton's Method: An Application of Nonlinear Programming to Linear Algebra," Department of Computational and Applied Mathematics Colloquium, Rice University, Houston, Texas, January

2020	"Does the Pennisi-McCormick Second-Order Sufficiency Theorem for Nonlinear Programming Hold in Infinite Dimensions: A 50 Year Old Question?," School of Industrial and Systems Engineering, Georgia Institute of Technology, Atlanta, Georgia, March
2020	Keynote address, "Underrepresentation in STEM: A Danger to the Health of the Nation," Virtual 2020 INFORMS Annual Meeting.

Ph.D. Students (Directed or Co-Directed):

1972	Mary Anne McCarthy, Lulejian and Associates, Los Angeles, California
1973	Gilbert Mayor de Montricher, Princeton University (directed jointly with J.R. Thompson)
1974	Victor M. Guerra, Universidad Nacional Autonoma de Mexico
1976	Richard H. Byrd, University of Colorado David W. Scott, Rice University (directed jointly with J.R. Thompson)
1978	Kathie L. Hiebert, Sandia National Laboratories, Albuquerque, New Mexico Jorge Nocedal, Northwestern University
1979	Naresh Garg, University of Kentucky
1983	Rodrigo Fontecilla, Booz Allen & Hamilton
1985	Maria Rosa Celis, Silicon Graphics, Mountain View, California (directed jointly with J.E. Dennis) Edward Dean, University of Houston (directed jointly with J.E. Dennis) Teresa Parks, Rice University, Houston, Texas (directed jointly with J.E. Dennis)
1987	Mohammedi El-Hallabi, Ecole Hassamia de Travaux Publics, Casablanca, Morocco
1988	Hector J. Martinez, Universidad del Valle, Cali, Colombia (directed jointly with J.E. Dennis) Mahmoud El-Alem, Alexandria University, Egypt (directed jointly with J.E. Dennis)
1989	Jershan Chiang, Culture University, Taiwan Shou-Bai Li, Houston Community College System (directed jointly with J.E. Dennis)
1991	Marcos Raydan, Universidad Central de Venezuela (directed jointly with J.E. Dennis)
1992	Amr El-Bakry, ExxonMobil Production Research Company, Houston, Texas Catherine Samuelsen, ExxonMobil Production Research Company, Houston, Texas
1994	Debora Cores, INTEVEP (Research center for the Venezuelan oil companies) Mark Gockenbach, University of Michigan-Ann Arbor (directed jointly with W.W. Symes)
1995	Maria Gonzalez-Lima, Texas A&M University, Corpus Christi
1996	Anthony Kearsley, National Institute of Science and Technology, (directed jointly with R. Glowinski)
1997	Miguel Argaez, University of Texas-El Paso Zeferino Parada, Universidad Nacional Autonoma de Mexico

1998	Monica Martinez, Sandia National Laboratories Pamela Williams, Sandia National Laboratories
1999	Cassandra McZeal, ExxonMobil Production Research Company, Houston, Texas
2000	Leticia Velazquez, University of Texas-El Paso M. Cristina Villalobos, University of Texas-Pan American
2001	Olena Sinkevich, University of Michigan-Ann Arbor
2002	Genetha Gray, Sandia National Laboratories Diane Jamrog, Lincoln Laboratory, Massachusetts Institute of Technology
2004	Timothy Redl, University of Houston-Downtown
2005	Vinod Kumar, University of Texas-El Paso Victor Udoewa
2009	Joanna Papakonstantinou, PROS Strategic Solutions, Houston, Texas

M.A. Students:

1971	Gilbert Mayor de Montricher, Princeton University
1972	Victor Guerra, Universidad Nacional Autonoma de Mexico
1975	Kristin Lucas
1984	Hector Martinez, Universidad del Valle, Cali, Colombia
1990	Rodolfo Elizondo, PROS Strategic Solutions, Houston, Texas
1995	Tamara Carter, Professor of Mathematics, Oklahoma City Community College
1996	Sarah Benkendorf, Netherland Sewell and Associates, Houston, Texas
2002	Ebonii Anderson, Lockheed Martin Aeronautics Company, Fort Worth, Texas Emily Barra
2004	Leticia Benitez
2006	Naomi Reed Donald Williams
2009	Joanna Papakonstantinou, PROS Strategic Solutions, Houston, Texas

Editorial Activities:

1990	Co-editor: Proceedings of Fifth Mexico-United States Workshop on Numerical Analysis
1990	Editor: Special issue of Linear Algebra and Its Applications dedicated to interior-point methods for linear programming
1990 - 1991	Editor: SIAM Journal on Optimization

1981 – 1996 Editor: Journal of Optimization Theory and Applications

1978 – 1991 Editor: SIAM Journal on Numerical Analysis

Research Interests:

Computational sciences in general. In particular mathematical optimization theory and iterative methods for nonlinear problems. Current research is in the area of algorithms for constrained optimization problems and interior-point methods for linear and nonlinear programming.

Research Support:

Principal Investigator or Co-Principal Investigator on the following grants or contracts:

2021 – present	The Institute for Operations Research and the Management Sciences (INFORMS) Diversity and Inclusion Ambassadors (DEI) Program Tapia Virtual Camp: "The School-Student Assignment Task with a DEI Analysis"
2020 – present	American Mathematical Society, Epsilon Fund Grants for Young Scholars Programs, "Tapia STEM Camps"
2019 – present	United Independent School District, "Tapia Say STEM Camp"
2018 - 2018	Houston Independent School District, "Tapia Camp for HISD"
2016 - 2016	Dallas Independent School District, "Tapia Math-Science Scholars Program"
2015 - 2015	Houston Independent School District, "Tapia Math-Science Scholars Program"
2015 – present	A.R. "Tony" and Maria J. Sanchez Family Foundation, "Richard Tapia Center"
2014 - present	Cullen Trust for Higher Education, "A Proposal for K-12 Programming Within Rice University's Richard Tapia Center for Excellence and Equity"
2013 - 2018	National Science Foundation, "BPC-A: Institute for African-American Mentoring in Computing Sciences (iAAMCS)"
2011 - 2016	National Science Foundation, "XSEDE: eXtreme Science and Engineering Discovery Environment"
2011 - 2014	National Science Foundation, "Planning for a Southwestern Regional Alliance to Broaden Participation"
2010 - 2014	National Science Foundation, "BPC-AE - Strengthening and Expanding the Empowering Leadership Alliance (ELA)"
2010 - 2013	Alfred P. Sloan Foundation, "The Enhancement and Support of Graduate Education for Underrepresented Minority Students in Science, Technology, Engineering, and Mathematics"
2009 - 2010	Alfred P. Sloan Foundation, "The Enhancement and Support of Graduate Education for Underrepresented Minority Students in Science, Technology, Engineering, and Mathematics"
2009 - 2012	Rice University Faculty Initiatives Fund, "Community and Mentoring Program for Undergraduate Success (CAMPUS)"

- 2007 2011 National Science Foundation, "BPC-A-Empowering Leadership: Computing Scholars of Tomorrow"
- 2005 2009 Alfred P. Sloan Foundation, "The Enhancement and Support of Graduate Education for Underrepresented Minority Students in Science, Technology, Engineering, and Mathematics"
- 2005 2008 National Science Foundation, "Engaging People in Cyberinfrastructure (EPIC)"
- 2004 2006 National Science Foundation, "K-16 Outreach Activity: "Math is Cool" --Building on Success"
- 2004 2011 National Science Foundation "The Rice University Mathematics Leadership Institute"
- 2004 2012 National Science Foundation, "Rice-Houston Alliance For Graduate Education And The Professoriate"
- 2003 2009 National Science Foundation, "ITR: Virtual Grid Application Development Software (VGrADS)"
- 2002 2004 National Science Foundation, "Engineering Bridges"
- 2002 2008 National Science Foundation, "CS-CAMP"
- 2002 2005 National Action Council for Minorities in Engineering (NACME), "Reginald H. Jones Distinguished Service Award"
- 2001 2005 Alfred P. Sloan Foundation, "Investing in the Future: Promoting Graduate Education for Underrepresented Minorities"
- 2001 National Science Foundation, "7th US-Mexico Workshop on Numerical Analysis"
- 2000 2003 RGK Foundation, "The Center for Excellence and Equity in Education"
- 1999 2002 Department of Energy/Los Alamos National Laboratory, "Los Alamos Computer Science Institute (LACSI)"
- 1999 National Science Foundation, "Summit Meeting on Promoting National Minority Leadership in Science and Engineering"
- 1998 2003 National Science Foundation, "GK-12"
- 1998 2005 National Science Foundation, National Computational Science Alliance, "Access and Inclusion"
- 1998 2005 National Science Foundation, National Partnership for Advanced Computational Infrastructure, "Access and Inclusion"
- 1998 Exxon Education Foundation, "Complex Problems Related to Industry"
- 1998 Alfred P. Sloan Foundation, "Engineering and Science Underrepresented Minority Ph.D.s Recruitment and Retention Conference"
- 1997 Exxon Education Foundation, "Complex Problems Related to Industry"
- 1996 1999 National Science Foundation, "Presidential Award for Excellence in Science,

Mathematics, and Engineering Mentoring"

- 1996 Exxon Education Foundation, "Complex Problems Related to Industry"
- 1995 2001 Alfred P. Sloan Foundation, "The Enhancement and Support of Graduate Education Activities for Underrepresented Minority Students in Mathematical Sciences"
- 1995 1999 Department of Energy, "Extensions and Applications of Interior-Point Methodology in Nonlinear Programming"
- 1995 Exxon Education Foundation, "Complex Problems Related to Industry"
- 1994 Exxon Education Foundation, "Complex Problems Related to Industry"
- 1993 Exxon Education Foundation, "Complex Problems Related to Industry"
- 1991-1992 National Science Foundation, "6th Mexico-United States Workshop on Numerical Analysis"
- 1990 1995 Department of Energy, "Research on Trust-Region Algorithms for Nonlinear Programming"
- 1989 1995 Air Force Office of Sponsored Research, "Integrated Approaches to Parallelism in Optimization and the Solution of Inverse Problems"
- 1988 1989 National Science Foundation, "5th Mexico-United States Workshop on Numerical Analysis"
- 1986 1989 Air Force Office of Sponsored Research, "Quasi-Newton Methods for Large-Scale Nonlinear Equations and Constrained Optimization"
- 1985 1989 Department of Energy, "Quasi-Newton Methods for Large-Scale Nonlinear Equations and Constrained Optimization"
- 1985 1986 Air Force Office of Sponsored Research, "Research in Constrained Optimization"
- 1984 1985 National Science Foundation, "4th Mexico-United States Workshop on Numerical Analysis"
- 1982 1985 Department of Energy, "Research on Quasi-Newton Methods for Unconstrained and Constrained Optimization"
- 1981 1982 National Science Foundation, "3rd Mexico-United States Workshop on Numerical Analysis"
- 1980 1981 Department of Energy, "Extension of Quasi-Newton Methods to Constrained Optimization"
- 1976 1980 Department of Energy, "Extension of Quasi-Newton Methods to Constrained Optimization and to General Systems of Nonlinear Equations and Inequalities"
- 1975 1976 ERDA, "Extension of Quasi-Newton methods to Constrained Optimization and to General Systems of Nonlinear Equations and Inequalities"
- 1972 1975 Office of Naval Research, "Probability Density Estimation"

Publications:

Books

Nonparametric Density Estimation, Johns Hopkins University Press, Baltimore, Maryland, 1978 (with J.R. Thompson).

Nonparametric Function Estimation, Modeling, and Simulation, SIAM, Philadelphia, Pennsylvania, 1990. A revision of Nonparametric Density Estimation (with J.R. Thompson).

A Unified Approach to Mathematical Optimization Theory for Scientists and Engineers, in preparation.

Papers: To appear or Accepted

- 1. Mathematical Ship lofting, *Journal of Ship Research*, 10 (1966), 203-222 (with S. Berger, W. Webster, and D. Atkins).
- 2. An Application of a Newton-like Method to the Euler-Lagrange Equation, *Pacific Journal of Mathematics*, 29(1969), 235-245.
- 3. The Weak Newton Method and Boundary Value Problems, *SIAM Journal on Numerical Analysis*, 6 (1969), 539-550.
- 4. Hamel versus Schauder Dimension, *American Mathematical Monthly*, 77 (1970), 385-388 (with J.W. Evans).
- 5. The Kantorovich Theorem for Newton's Method, *American Mathematical Monthly*, 78 (1971), 389-392.
- 6. The Differentiation and Integration of Nonlinear Operators, *Nonlinear Functional Analysis and Applications*, (1971), (ed. L.B. Rall) Academic Press, New York, 45-101.
- 7. The Gradient Projection Method under Mild Differentiability Conditions, *SIAM Journal* on Control, 10 (1972), 93-98 (with G.P. McCormick).
- 8. The Metric Gradient in Normed Linear Spaces, *Numerical Mathematics*, 20 (1972), 115-124 (with M. Golomb).
- 9. An Extremum Problem, SIAM Review, 14 (1972), 365.
- 10. Kantorovich Estimates for Some Convex Programs, *SIAM Journal on Control*, 11 (1973),375-377 (with A.A. Goldstein).
- 11. A Characterization of Inner Product Spaces, *Bulletin American Mathematical Society*, 79 (1973), 530-532.
- 12. A Characterization of Inner Product Spaces, *Proc. American Mathematical Society*, 41 (1973), 569-574.
- 13. Optimal Error Bounds for the Newton-Kantorovich Theorem, *SIAM Journal on Numerical Analysis*, 11 (1974), 10-13 (with W.B. Gragg).
- 14 Newton's Method for Problems with Equality Constraints, *SIAM Journal on Numerical Analysis*, 11 (1974), 174-196.
- 15. A General Approach to Newton's Method for Banach Space Problems with Equality Constraints, *Bulletin American Mathematical Society*, 80 (1974), 355-360.

- 16. Newton's Method for Optimization problems with Equality Constraints, *SIAM Journal on Numerical Analysis*, (1974), 874-886.
- 17. A Stable Approach to Newton's Method for General Mathematical Programming Problems in \Re^n , SIAM Journal of Optimization Theory and Applications, 14 (1974), 453-476.
- 18. An Extension of Curry's Theorem to Steepest Descent in Normed Linear Spaces, *Mathematical Programming*, 9 (1975), 247-254 (with R.H. Byrd).
- 19. Nonparametric Maximum Likelihood Estimation of Probability Densities by Penalty Function Methods, *Annals of Statistics*, 3 (1975), 1329-1348 (with G. de Montricher and J.R. Thompson).
- 20. Computable A Posteriori L_{∞} Error Bounds for the Approximate Solution of Two-Point Boundary Value Problems, *SIAM Journal on Numerical Analysis*, 12 (1975), 919-937 (with Mary Anne McCarthy).
- 21. Kernel Density Estimation Revisited, *Nonlinear Analysis, Theory, Methods and Applications*, 1 (1977), 339-372 (with D. Scott and J.R. Thompson).
- 22. Diagonalized Multiplier Methods and Quasi-Newton Methods for Constrained Optimization, *Journal of Optimization Theory and Applications*, 22 (1977), 135-194.
- 23. Quasi-Newton Methods for Constrained Optimization: Equivalence of Existing Methods and a New Implementation, in *Nonlinear Programming*, 3 (1978), Eds. O.L. Mangasarian, R.R. Meyer, and S.M. Robinson, Academic Press, New York, 125-164.
- 24. Optimal Smoothing of Direct Estimates of the Power Spectrum, *Communications in Statistics*, 4 (1978), (with R. Byrd and J. Thompson).
- 25. On the Role of Slack Variables in Quasi-Newton Methods for Constrained Optimization, in *Numerical Optimization of Dynamic Systems*, (1980) L.C.W. Dixon and G.P. Szegö (eds.), North Holland Press, 235-246.
- 26. Nonparametric Probability Density Estimation by Discrete Maximum Penalized Likelihood Criteria, *Annals of Statistics*, 8 (1980), 820-832 (with D. Scott and J.R. Thompson).
- 27. Nonlinear Programming, McGraw Hill Encyclopedia of Science and Technology,(1981).
- 28. Recent Advances in Nonlinear Programming, *McGraw-Hill Yearbook of Science and Technology*, (1981).
- 29. A Trust Region Strategy of Equality Constrained Optimization, in *Numerical Optimization*, (1984), ed. by P.T. Boggs, R.H. Byrd and R.B. Schnabel, SIAM, 71-82 (with M.R. Celis and J.E. Dennis).
- A Convergence Theory for a Class of Quasi-Newton Methods for Constrained Optimization, *SIAM Journal on Numerical Analysis*, 24 (1987), 1133-1151 (with R. Fontecilla and T. Steihaug).
- 31. On the Characterization of q-Superlinear Convergence of Quasi-Newton Methods for Constrained Optimization, *Math. Comp.*, 49 (1987), 581-584 (with J. Stoer).
- 32. The Projected Newton Method has Order $1 + \sqrt{2}$ for the Symmetric Eigenvalue Problem, *SIAM Journal on Numerical Analysis*, 25 (1988), 1376-1382 (with David Whitley).

- 33. Secant Updates for use in General Constrained Optimization, *Math. of Comp.*, 51 (1988), 181-202.
- A Convergence Theory for the Structured BFGS Secant Method with an Application to Nonlinear Least-Squares, *Journal of Optimization Theory and Applications*, 61 (1989), 161-178 (with J.E. Dennis and H. Martinez).
- 35. A Cubically Convergent Method for Locating a Nearby Vertex in Linear Programming, *Journal of Optimization Theory and Applications*, 67 (1990), 217-225 (with Y. Zhang).
- 36. An Optimal Basis Identification Technique for Interior-Point Linear Programming Methods, *Linear Algebra and Its Applications*, 152 (1991), 343-363, special issue devoted to interior-point methods (with Y. Zhang).
- 37. An SQP Augmented Lagrangian BFGS Algorithm for Constrained Optimization, *SIAM Journal on Optimization*, 2 (1992), 210-241 (with R.H. Byrd and Y. Zhang).
- 38. On the Superlinear and Quadratic Convergence of Primal-Dual Interior-Point Linear Programming Algorithms, *SIAM Journal on Optimization*, 2 (1992), 304-324 (with Y. Zhang and J.E. Dennis).
- 39. Superlinear and Quadratic Convergence of Primal-Dual Interior-Point Methods for Linear Programming Revisited, *Journal of Optimization Theory and Applications*, 73 (1992), 229-242 (with Y. Zhang).
- 40. On the Superlinear Convergence of Interior-Point Algorithms for a General Class of Problems, *SIAM Journal on Optimization*, 3 (1993), 413-422 (with Y. Zhang and F. Potra).
- 41. A Superlinearly Convergent Polynomial Primal-Dual Interior-Point Algorithm for Linear Programming, *SIAM Journal on Optimization*, 3 (1993), 118-133 (with Y. Zhang).
- 42. Sizing the BFGS and DFP Updates: A Numerical Study, *Journal of Optimization Theory and Applications*, 78 (1993), 93-108 (with Martha Contreras).
- 43. A Quadratically Convergent $O(\sqrt{nL})$ -Iteration Algorithm for Linear Programming, Mathematical Programming, 59 (1993), 151-162 (with Y. Ye, O. Güler and Y. Zhang).
- 44. On the Quadratic Convergence of the Singular Newton's Method (an essay), SIAG/OPT Views and News: A Forum for the SIAM Activity Group in Optimization, Ed. Larry Nazareth, No. 1, Fall 1992, 6-8 (with Y. Zhang).
- 45. A Unified Approach to Global Convergence of Trust-Region Methods for Optimization, (revised July 1993), *Mathematical Programming*, 68 (1995), 319 (with J.E. Dennis and Shou-Bai Li).
- 46. The Mehrotra Predictor-Corrector Interior-Point Method as a Perturbed Composite Newton Method, *SIAM Journal on Optimization*, 6 (1) (1996), 47-56 (with Y. Zhang, M.J. Saltzman, and A. Weiser).
- 47. A Study of Indicators for Identifying Zero Variables in Interior-point Methods, *SIAM Review*, 36 (1994), 45-72 (with A.S. El Bakry and Y. Zhang).
- 48. On the Characterization of Q-Superlinear Convergence for Quasi-Newton Interior-Point Methods for Nonlinear Programming, *El Boletin de la Sociedad Matematica Mexicana*, inaugural issue of the Journal of Mexican Mathematics Society, 1 (3) (1995), 137-148 (with H.J. Martinez and Z. Parada).

- 49. On the Convergence of the Iteration Sequence in Primal-Dual Interior-Point Methods, *Mathematical Programming*, 68 (1995), 141-154 (with Y. Zhang and Yinyu Ye).
- 50. On the Convergence of the Mizuno-Todd-Ye Algorithm to the Analytic Center of the Solution Set, *SIAM Journal on Optimization*, 7 (1) (1997), 47-65 (with C. Gonzaga).
- 51. On the Quadratic Convergence of the Simplified Mizuno-Todd-Ye Algorithm for Linear Programming, *SIAM Journal on Optimization*, 7 (1) (1997), 66-85 (with C. Gonzaga).
- 52. An Extension of the Karush-Kuhn-Tucker Necessity Conditions to Infinite Programming, *SIAM Review*, 36 (1) (1994), 1-17 (with M. Trosset).
- 53. Numerical Experience with Polyhedral Norm CDT Trust-Region Algorithms, *Journal of Optimization Theory and Applications*, 85 (1995), 575-591 (with M. El-Alem).
- 54. On the Formulation and Theory of the Newton Interior-Point Method for Nonlinear Programming, *Journal of Optimization Theory and Applications*, 89 (1996), 507-541 (with A. El-Bakry, T. Tsuchiya and Y. Zhang).
- 55. On the Construction of Strong Complementarity Slackness Solutions for DEA Linear Programming Problems Using a Primal-Dual Interior-Point Method, *The Annals of Operations Research*, 66 (1996), 139-162 (with M.D. Gonzalez-Lima and R.M. Thrall).
- 56. The Solution of the Metric STRESS and SSTRESS Problems in Multidimensional Scaling Using Newton's Method, *Computational Statistics*, 13 (3) (1998), 369-396 (with A. Kearsley and M. Trosset).
- 57. An Approach to Parallelizing Isotonic Regression, *Applied Mathematics and Parallel Computing: Festschrift for Klaus Ritter*, H. Fischer, B. Riedmuller, S. Schaffler (Editors), Physica-Verlag, Heidelberg, (1996) 141-147 (with A.J. Kearsley and M.W. Trosset).
- 58. On the Convergence Rate of Newton Interior-Point Methods in the Absence of Strict Complementarity, *Computational Optimization and Applications*, 6 (1996), 157-167 (with A. El-Bakry and Y. Zhang).
- 59. An Interior-Point Method with Polynomial Complexity and Superlinear Convergence for Linear Complementarity Problems, (with J. Ji, F. Potra and Y. Zhang).
- 60. Perturbation Lemma for Newton's Method with Application to the SQP Newton Method, *Journal of Optimization Theory and Applications*, 97 (1) (1998), (with D. Cores).
- 61. On Effectively Computing the Analytic Center of the Solution Set by Primal-Dual Interior-Point Methods, *SIAM Journal on Optimization*, 8 (1) (1998), (with M. Gonzalez-Lima and F. Potra).
- 62. A Robust Choice of the Lagrange Multiplier in the SQP Newton Method, *Investigación Operativa*, 7 (1,2) (1997), (with D. Cores).
- 63. Computing an Exact Solution in Interior-Point Methods for Linear Programming, *Contemporary Mathematics*, 252 (1999), 9-29 (with P. Williams and A. El-Bakry).
- 64. On the Global Convergence of a Modified Augmented Lagrangian Linesearch Interior-Point Newton Method for Nonlinear Programming, *Journal of Optimization Theory and Applications*, 114 (1) (2001), (with M. Argaez).
- 65. Comparison of Two Sets of First-Order Conditions as Bases of Interior-Point Newton Methods for Optimization with Simple Bounds, *Journal of Optimization Theory and Applications*, 113 (1) (2002), (with D. Jamrog and Y. Zhang).

- 66. A Fast Newton's Method for Entropy Maximization in Phase Determination, *SIAM Review*, 57 (6) (2002), 681-685, (with Z. Wu, G. Phillips, and Y. Zhang).
- 67. The Local Behavior of Newton's Method on Two Equivalent Systems from Linear Programming, *Journal of Optimization Theory and Applications*, 112 (2) (2002), 239-263, (with C. Villalobos and Y. Zhang).
- 68. Selective Search for Global Optimization of Zero or Small Residual Least-Squares Problems: A Numerical Study, *Computational Optimization and Applications*, 20 (2001), 299-315, (with L. Velazquez, G. Phillips, and Y. Zhang).
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