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Curriculum Vitae

• Professional Experience

- President, Purdue University, July 2007 - present
- President, Purdue Research Foundation, July 2007 - present
- Professor of Physics and Astronomy, Purdue University, July 2007 - present
- Chancellor, University of California, Riverside, 2002 - 07
- Distinguished Professor of Physics & Astronomy, UCR 2002 - 07
- Vice Chancellor for Research, University of California at Santa Barbara, 1996 - 2002
- Professor of Physics, University of California at Santa Barbara, 1996 - 2002
- Chief Scientist, National Aeronautics and Space Administration, 1993 - 96
- Department Head, Astronomy & Astrophysics, Pennsylvania State University, 1989 - 93
- Professor of Astronomy & Astrophysics, Pennsylvania State University, 1989 - 96
- Deputy Group Leader, Space Astronomy & Astrophysics Group, Los Alamos National Lab, 1989
- Staff Scientist, Earth and Space Science Division, Los Alamos National Lab., 1979 - 89

• Degrees

- BA cum laude, English, Stanford University, 1969
- PhD, Physics, California Institute of Technology, 1979
- Honorary Doctorate, Loyola-Marymount University, 1997
- Honorary Professorship, China Agricultural University, 2005
- Honorary Doctorate, Ben Gurion University of the Negev, May 2011
- Honorary Doctorate, Purdue University, May 2012

• Recognition, Awards

- Sagamore of the Wabash, awarded by the Governor of Indiana, June 2012
- Designation as Marquis de Lafayette, awarded by the Mayor of Lafayette, Ind., June 2012
- PBS documentary "MAKERS: Women Who Make America," 2012, featured public figure
- Women in Space Science Award, Adler Planetarium Women's Board, May 2012
- Helen B. Schleman Award from Mortar Board at Purdue University, April 2012
- One Brick Higher Award, Purdue University, 2012
- Honorary Science Journalism Laureate, Purdue University, November 2011
- Commencement Address, Mayo Clinic, May 2011
- Stanford University Multicultural Alumni Hall of Fame inductee, 2008
- Fellow, American Academy of Arts and Sciences, 2008
- California Institute of Technology Distinguished Alumna, 2007
- "101: The List of the Most Influential Leaders in the Latino Community Today" Latino Leaders National Magazine, Jan 2007

- Fellow, American Association for the Advancement of Science, 2007
- Robert H. Atwell Distinguished Lecture, American Council on Education, February 2006
- Convocation Keynote Address, La Sierra University, 2005
- Commencement Speaker, Eberly College of Science, Penn State, May 2004
- Hispanic Lifestyle Award, Influential Latina of the Year, 2003
- National Associate of the National Academies, 2002
- Kilby Prize Laureate 2000, Jack Kilby International Awards Foundation
- Woman of Distinction, Girl Scouts of Tres Condados, 2000
- NASA Group Achievement Award for Outstanding Teamwork, Swift Midsize Explorer Team, 2000
- PBS television documentary, "Life Beyond Earth," 1999, featured scientist
- American Astronomical Society Second Century Lecturer
- Fellow, Association for Women in Science, elected 1999
- "100 Most Influential Hispanics", Hispanic Business Magazine, October 1997
- Hispanic Achievement Award in Science & Technology, Hispanic Magazine, August 1997
- Honorary Doctorate of Science, Loyola-Marymount University, 1997
- Undergraduate Commencement Speaker, Loyola-Marymount, Spring 1997
- NASA Distinguished Service Medal, 1996
- Featured in several books on women in science and books for girls, including Cover of "Women in Physical Sciences Careers" (published by Capstone Press, Minnesota), 1999
- Illinois Mathematics and Science Academy, Commencement Speaker, Spring 1996
- University of Texas at El Paso, Commencement Speaker, Spring 1996
- PBS television documentary "Breakthrough: The Changing Face of Science in America," 1996 premiere, featured scientist
- Bishop Amat Memorial High School Alumnus of the Year, 1996
- University of Maryland Commencement Speaker, Winter 1995
- Penn State University Graduate Commencement Speaker, Spring 1992
- Who's Who in America, 1992
- Penn State Phi Eta Sigma Honor Society Induction Address, Winter 1993
- Shapley Lecturer of the American Astronomical Society, 1993
- Penn State Phi Beta Kappa Induction Address, Spring 1991
- NASA Group Achievement Award for the Rosat Satellite Project, 1991
- "America's 100 Brightest Scientists Under 40," SCIENCE DIGEST magazine, 1984
- Who's Who in Frontier Science and Technology, 1984
- The World Who's Who of Women, 1984
- The International Who's Who of Contemporary Achievement, 1984
- American Men and Women of Science, 1984
- Who's Who in American Education, 1993
- NATO Postdoctoral Fellowship, Mullard Space Science Lab, UK, 1983 (one year)
- California Institute of Technology Postdoctoral Fellowship, 1979 (three months)
- Mademoiselle Magazine Guest Editor, New York City, 1969

• Leadership and Service

• **Corporate and Nonprofit Board Service**

- Smithsonian Institution Board of Regents, Chair, 2012 - 2015
- Smithsonian Institution Board of Regents, Member, 2009 - present
- National Science Board, Member, 2008-present; chair, Strategic Planning and Budget Committee, 2012-14
- Mayo Clinic, Board of Trustees, 2008 - present
- Science Applications International Corporation (SAIC), Board of Directors, 2008 - present
- Edison International, Board of Directors, 2004 - present
- Belo Corporation, Board of Directors, 2003 - 2007

• **Federal Government Service**

- National Science Board, Various Committees, 2008 - present

- President's National Medal of Science Committee, 1991 - 94
- Fundamental Science Committee of the National Science and Technology Council (NSTC), 1993 - 96
NSTC Subcommittee on Public Communication of Science, Chair, 1994 – 96
NSTC Antarctica Working Group of Fundamental Science Committee, 1995 – 96
NTSC Research Integrity Panel, Chair, 1996
- **Purdue University and Indiana Service**
 - Alfred E. Mann Institute for Biomedical Development at Purdue, Vice Chair, 2008 - 2012
 - Association of American Universities Council of Presidents and Chancellors, 2007 - 2012
 - Big Ten Council of Presidents and Chancellors, 2007 - 2012
 - BioCrossroads, Board of Directors, 2007 - 2012
 - Central Indiana Corporate Partnership, Board Member, 2007 - 2012
 - Committee on Institutional Cooperation, 2007 - 2012
 - Indiana Chamber of Commerce, Board Member, 2007 - 2012
 - Purdue Research Foundation, President, 2007 - 2012
- **University of California Service**
 - Advisory Board, Lawrence Berkeley National Laboratory, 2006 - 07
 - Chair, Board of Advisors for Casa de California, 2005 - 06
 - Long-Range Guidance Team, 2005 - 06
 - President's Council on the National Laboratories, 2002 - 07
 - California Mexico Commission on Education, Science, and Technology, 2002 - 07
 - Policy Board, U.C. Microelectronics Innovation and Computer Research Opportunities, 2000
- **National Aeronautics and Space Administration Service**
 - Co-Chair, NASA Strategic Roadmap Committee on Education, 2004
 - Chair, Hubble Space Telescope Time Allocation Committee, 2001
 - Chief Scientist, 1993 - 96
 - Chair, Search Committee for Director of NASA Astrobiology Institute, 1998
 - Chair, Science Working Group, Constellation X mission, 1998 - 2000
 - NASA Science Council, Chair, 1994 - 96
 - NASA Program Management Council, 1993 - 96
 - Inventions and Contributions Board, 1994
 - Space Science and Applications Advisory Committee (SSAAC) of the NASA Advisory Council, member, 1991 - 93
 - Röntgen X-ray Observatory (ROSAT) International Users Committee, member, 1985 - 90
 - Extreme Ultraviolet Explorer (EUVE) Guest Observer Working Group (NASA), member, 1988 - 93
 - Management Operations Working Group, Science Operations Branch (NASA, Astrophysics), member, 1988 - 90
 - Hubble Space Telescope Advanced Camera Team, member, 1993
 - Chair, Exceptional Scientific Achievement Medal panel, 1993 - 96
- **Other Federal Agency Service**
 - Hamre Commission on Science and Security, Department of Energy, 2000 - 02
 - Advisory Committee for Astronomical Sciences, NSF, member, 1990 - 93
 - External Advisory Board for NSF Particle Astrophysics Center, 1989 - 93
 - The National Science Foundation Advisory Council, 1981 - 84
 - Blue Ribbon Committee on Antarctica's South Pole Station, 1994
- **National Research Council (NRC), National Academy of Science Service**
 - NRC Committee on Science, Security, and Prosperity, 2008 - 09
 - American Academy of Arts and Sciences Committee on Research Infrastructure, 2007 - 08
 - NRC Committee on Scientific Communication and National Security, 2005 - present
 - National Panel of Presidents and Chancellors on Models for Flexible Tenure-track Faculty Career Pathways, American Council on Education (ACE), 2004 - 05
 - California Council on Science and Technology, 2003 - 07
 - NAS Roundtable on Scientific Communication and Security, 2003 - 05
 - NRC Policy and Global Affairs Advisory Committee, 2001 - 07

- NRC Policy and Oversight Advisory Committee, 2001 - 01
- Scientific Program Committee, American Association for the Advancement of Science, 2000 - 02
- NRC Fusion Science Assessment Committee, 1999 - 2000
- NRC Astronomy and Astrophysics Survey Committee, High-Energy Astrophysics from Space Panel, 1999
- NAS Policy Division, Advisory Committee, 1997 - 2000 [also: reviewer, monitor for numerous STEP and COSEPUP reports]
- NAS Office on Public Understanding of Science, Advisory Committee, 1997 - 2000
- Government-University-Industry Research Roundtable, 1995 - 97
- Committee on Space Astronomy & Astrophysics of the Space Science Board of the NRC, member, 1987 - 90
- **Additional Board and Professional Society Service**
 - The Chronicle/New York Times Higher Education Cabinet, 2008
 - Donald Danforth Plant Science Center, Board of Trustees, 2007 - 2009
 - The College Board Committee on Access, Admissions and Success in Higher Education, 2007 - 08
 - University Research Association Council of Presidents, Vice Chair, 2007, Chair, 2008
 - American Council on Education, Board of Directors, 2006 - 2009
 - National Association of State Universities and Land-Grant Colleges (NASULGC), Board of Directors, 2006 - 2008
 - American Council on Education Commission on Women in Higher Education, 2005
 - AWU Board of Directors, 1998 - 2000
 - Fermilab Board of Overseers (URA), 1st Term 1997 - 2000, 2nd Term 2000 - 02
 - American Astronomical Society, Vice President, 1993
 - High Energy Astrophysics Division, American Astronomical Society, Chair, 1990
 - High Energy Astrophysics Division, American Astronomical Society, Vice Chair, 1989
 - Association of Universities for Research in Astronomy (AURA) Board of Directors, 1989 - 92, New Term 1992 - 95, Elected Vice Chair 2007
 - AURA Nominating Committee, 1990 - 91
 - Hubble Space Telescope Institute Council (STIC), 1990 - 93
 - STIC Institute Visiting Committee, Nominating Committee for 1992 U. S. National Committee for the International Astronomical Union, 1990 - 93
 - International Astronomical Union Working Group on "Multi-frequency & Multi-facility Astrophysics," Co-Founder, 1988
- **University and Town Committees and Honors (pre-Purdue)**
 - 64th Assembly District Woman of the Year, 2007
 - Monday Morning Group (Riverside Leadership) 2002
 - Santa Barbara Botanical Garden, Board member, 1998 - 99
 - Santa Barbara Downtown/Waterfront Visioning Committee, 1997 - 98
 - Santa Barbara Channel Aquarium Science and Education Committee, 1998 - 99
 - Santa Barbara Museum of Natural History Advisory Council, 1997 - 98
 - UCSB, Vice Chancellor for Research, 1996 - 2002
 - UCSB, Academic Planning Coordinating Committee, Co-Chair of Rankings Subcommittee, 1999 - 2000
 - UCSB, Campus (Strategic) Planning Design Committee, 1997
 - UCSB, Audit Committee, 1996 - 2002
 - UCSB, Campus Planning Committee, 1996 - 2002
 - Penn State, Head of Department of Astronomy and Astrophysics, 1989 - 93
 - Penn State, Applied Research Laboratory, Advisory Board, 1995 - 96
 - Penn State, Board of Visitors to Department of Astronomy and Astrophysics, 1995 - 96
 - Penn State, Honorary Degrees Committee, Chair, 1992 - 93
 - Penn State, Search Committee for Sr. V.P. for Research and Dean of Graduate School, 1991
 - Penn State, Search Committee for Chair of Computer Science Department, 1991
 - Penn State, Search Committee for Penn State Research Park Marketing Director, 1992
- **Los Alamos National Laboratory Service**
 - Nonproliferation and International Security (NIS) Division Review Committee, 1997 - 2002

- Science and Engineering Advisory Council(SEAC) 1987 - 88, Chair, 1988 - 89
- GSSA Activity Area (LANL, Lab-wide), member 1987 - 88
- GSSA Category Team (LANL, Assoc. Dir. ERA), 1986 - 88, Chair, 1986 - 88
- Los Alamos Fellows' Selection Committee (LANL), 1987
- Research Advisory Council (LANL, ESS Division), 1985 - 86, Chair, 1985 - 86
- **Conference Organizing**
 - Planning Committee, NAS meeting "Balancing National Security and Open Scientific Communication," December 2001
 - Organizer, Jan van Paradijs Symposium, The Netherlands, June 2001
 - Organizer, NASA Administrator's Seminar Series on "America's Next Era in Space"
Ten interactive seminars distributed over calendar year 1995
 - Chair, Taos Conference on "Multiwavelength Astrophysics," August 1987
 - Chair, "11th North American Workshop on Cataclysmic Variables," Santa Fe, NM, Oct. 1989
 - Chair, "1st Spectroscopic Survey Telescope Workshop," University Park, PA, Oct. 1990
 - Organizing Committee, "Statistical Challenges in Modern Astronomy" Conference, University Park, PA, July 1991
 - Organizing Committee for "Status of Women in Astronomy" Conference, Baltimore, MD, Sept. 1992
 - Convener, Mini-workshop on "Compact Objects" for the 16th Texas Symposium on Relativistic Astrophysics, Berkeley, CA, Dec. 1992
 - Organizing Committee, "Interacting Binaries," ASP, San Diego, July 1993
 - Organizing Committee, "New Developments in X-ray and UV Astronomy," COSPAR, IAU, Hamburg, Germany, July 1994
- **Societies**
 - American Association for the Advancement of Science
 - International Astronomical Union (past)
 - American Astronomical Society (past)
 - American Women in Science (past)
 - Sigma Xi
 - Caltech Alumni Association
 - Stanford Alumni Association
 - Los Alamos Mountaineers:
President, 1985-1986, Vice-President, 1984
Director, Technical Rock Climbing School, 1984
- **Publications**
 - Member of a blue-ribbon committee of the American Academy of Arts and Sciences, which authored in June 2008 a publication entitled "Advancing Research in Science and Engineering" (ARISE).
 - As a member of National Academies' Committee on Scientific Communication and National Security, co-authored report, "Beyond Fortress America: National Security Controls on Science and Technology in a Globalized World," 2009.
 - Authored more than 150 scientific papers and reports, and numerous public policy papers
 - Editor, Multiwavelength Astrophysics, a book of selected review papers representing all aspects of this field: scientific application, data analysis, and instrumentation, published by Cambridge University Press in 1988
 - Editor, The Spectroscopic Survey Telescope, Workshop Proceedings, October 1990, Penn State University
 - Wrote short novel (as a contest entry), "The Women of Santo Domingo," based on my living and doing anthropology field work in a Zapotec Indian pueblo in Oaxaca, Mexico, as well as a Zapotec Indian cookbook— excerpts of which were published in the Los Angeles Times food section; for these writings, I won a Mademoiselle magazine Guest Editorship and wrote the magazine's feature travel article on Israel ("Shalom, We Echo Shalom," August 1969)
 - Authored and edited newspaper articles while working for the Los Angeles Times News Service, 1971
- **Personal**
 - Married to Christian J. Foster; two young adult children
 - Activities: soccer mom, running, rock-climbing, hiking, canoeing, cross-country skiing, reading, writing

