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EDUCATION

- Texas A&M University, 1977, B.S. in Education, Magna cum Laude.
- Princeton University, 1981, M.A. in Geophysical Fluid Dynamics.
- Princeton University, 1984, Ph.D. in Geophysical Fluid Dynamics.
Thesis: *Radiative Forcing of the Venus Mesosphere*, Advisor, S. B. Fels.

CURRENT POSITION

Senior Research Scientist, Earth and Space Sciences Division, Jet Propulsion Laboratory, California Institute of Technology

CURRENT PROJECTS

- NASA Orbiting Carbon Observatory-2 (OCO-2) and OCO-3: Science Team Leader
- NASA Geostationary Carbon Cycle Observatory (GeoCarb): Science Team member and JPL Task Lead
- NASA Active Sensing of CO₂ Emissions over Days, Nights, and Seasons (ASCENDS), Science Definition Team co-lead
- NASA Astrobiology Institute Virtual Planetary Laboratory (NAI VPL): JPL Lead
- Visiting Scholar, Astronomy Department, University of Washington, Seattle
- Committee on Earth Observation Satellites (CEOS) Atmospheric Composition Virtual Constellation (AC-VC) Greenhouse Gas Lead
- European Space Agency (ESA)/European Commission (EC) CO₂ Task Force Member
- Jet Propulsion Laboratory Senior Research Scientist Council

PREVIOUS PROFESSIONAL EXPERIENCE

- 2013-2015: NASA Venus Exploration Analysis Group (VEXAG) Executive Council
- 2011-2015: European Space Agency CarbonSat Mission Advisory Group Member
- 2002-2014: European Space Agency Venus Express Venus Monitoring Camera (VMC) and Planetary Fourier transform Spectrometer (PFS) Science Teams
- 2009-2013: NASA Atmospheric CO₂ Observations from Space (ACOS) Science Lead
- 2001-2009: NASA Orbiting Carbon Observatory (OCO) Principal Investigator
- 1997-2001: NASA New Millennium Program: Chief Scientist
- 1997-1999: Mars Polar Lander Mars Volatiles and Climate Surveyor: Meteorology Instrument Provider
- 1997-1998: Mars Pathfinder Atmospheric Structure/Meteorology Facility Instrument Science Team Member
- 1986-1996: Hubble Space Telescope Wide Field Planetary Camera-II Science Team
- 1984-1986: Postdoctoral Research Fellow, Division of Geological and Planetary Sciences, California Institute of Technology, Pasadena, CA. Member, Soviet/French/U.S. VEGA Balloon Science Team.

HONORS, AWARDS, and PATENTS

- NASA Exceptional Public Service Medal for exceptional service to the Planetary and Earth remote sensing communities, most recently as the Science Team Leader for Orbiting Carbon Observatory-2.
- NASA Exception Service Medal for outstanding service to NASA and JPL as a research scientist, a technology innovator, a flight investigator and Chief Scientist for the New Millennium Program.
- Japanese Aerospace Exploration Agency (JAXA) Certificate of Appreciation for the Atmospheric CO₂ Observations from Space (ACOS) task, NASA, for contributions to achievements of the Greenhouse Gases Observing Satellite, “Ibuki” (GOSAT).
- NASA Certificates of Recognition:
 - *Accuracy of the Correlated-k Method.*
 - *Mapping Transformations for Broadband Atmospheric Radiation Calculations.*
 - *High Performance Miniature Hygrometer.*
 - *Particle Scattering in the Resonance Regime: an efficient exact model for axisymmetric particles.*
 - *Micro Machined Force Balanced Anemometer.*
- NASA Group Achievement Awards:
 - *Venus Balloon Experiment.*
 - *Wide Field/Planetary Camera-II Calibration Team.*
 - *Wide Field/Planetary Camera-II Science Team.*
 - *Mars Pathfinder Project Atmospheric Structure Meteorology Instrument Science Advisory Team.*
- JPL Certificates of Recognition
 - Strategic Leadership in the selection of the Orbiting Carbon Observatory
 - Magellan Award for Outstanding Senior JPL Management for scientific leadership of the OCO-2 Mission
 - Ranger Award for Outstanding Leadership in the Development of the OCO Reflight project.
- U.S. Patent 5364185: High Performance Miniature Hygrometer and Method Thereof, 1994