

CLARK R. WILSON –July 2019
Department of Geological Sciences Jackson School of Geosciences University of Texas Austin
1 University Station C9000 Austin TX 78712 Telephone 512 471 5008
Email crwilson@jsg.utexas.edu

Personal Information

Born 1949 (Hollywood, California)

Education

Ph.D.-1975 Earth Sciences, UCSD, Scripps Institution of Oceanography.
M.S.-1973 Earth Sciences, UCSD, Scripps Institution of Oceanography.
B.A.-1970 Physics, with high honors, University of California, San Diego, Revelle College.
1965-1967 Monterey Peninsula College, Monterey, California.
1954-1966 California public schools; graduated from Monterey High School 1966.

Professional Employment History

1989- Professor, Geological Sciences Department, University of Texas at Austin
1976-1989 Assistant and Associate Professor, University of Texas at Austin
1979 (Summer) University of Texas Marine Science Institute, Galveston, research scientist
1976 Mathematics Instructor, Chapman College, California; assignments in Guam and the Philippines
1970-1975 Graduate research assistant at Scripps Institution of Oceanography; Marine Physical Lab; Institute of Geophysics and Planetary Physics; at the University of California, San Diego
1968 (Summer) Shell Oil Company, Los Angeles, California, exploration geophysicist
1967 (Summer) Naval Weapons Center, Corona, California, electrical engineering assistant GS-4

Administrative Experience

2004-2007 Chairman, Department of Geological Sciences, University of Texas
1996-1999 Program Scientist, Geodynamics and Geopotential Fields, Office of Earth Sciences, NASA Headquarters, Washington DC, (Intergovernmental Personnel Assignment)
1990-1994 Chairman, Department of Geological Sciences, University of Texas
1989-1990 Associate Chairman, Department of Geological Sciences, University of Texas

Consulting Experience

2001 Legal firm: advice on geotechnical risks related to seismic exploration
1998-99 National Mine Safety Proposal Evaluations
1981-1999 National Institute Standards & Technology evaluating energy related inventions
1992 Venture capital group on image processing software
1991 Microcomputer hardware firm on seismic exploration methods
1990-1991 Legal firm on magnetic exploration methods and data processing
1990 Major petroleum company laboratory on dispersive seismic wave analysis software
1980-1992 Manuscript reviews for textbooks and software for various publishing companies
1980-1981 Software company developing multi-dimensional interpolation techniques
1980-1981 Petroleum prospecting company on magnetic exploration methods
1977 Educational consultants developing a standardized geophysics examination
1975 Textbook publisher developing an introductory geological sciences text

Significant Field Experience

- 1990-95 Global Positioning System geodetic observations in Texas
- 1979-1982 Member scientific party, 3 UT marine geophysical expeditions; 21 days in the Gulf of Mexico, South Florida, and Bahamas
- 1970-72 Member of the scientific party on 3 marine geophysical expeditions of the Scripps Institution of Oceanography, 6 months at sea in the Southwest, Southeast, and Northeast Pacific

Professional Society Membership, Registration,

- 2004- Registered Geophysicist, #2967 State of Texas
- 1970- American Geophysical Union
- 1969- Society of Exploration Geophysicists

Professional Service

- Society of Exploration Geophysicists: 1979 Judging panelist, International Science Fair; 1978 Academic-Industry Liaison Conference; Elected SEG District Representative 1991-1993, Technical Program Committee Member 71st Annual Meeting 2001; Technical Program Committee Member 77th Annual Meeting 2007; 81st annual Meeting 2011. Gravity and Magnetism Committee 2012-.
- Austin Geological Society: 1982-83 President; 1981-82 Vice President; 1984 Judge for Austin Area Science and Mathematics Fair
- International Association of Geodesy: 1987-1991 Member of Special Study Group 5-98, Atmospheric Excitation of the Earth's Rotation; 1991-1995 Member of Special Study Group 5.143 - Rapid Earth Orientation Variations; Member 1992 IAG Working Group on Global Change; 1995-1999 Elected Secretary of IAG Section V, Geodynamics; 1995-1999 Chairman of Special Study Group 5.173 Interaction of the Atmosphere and Oceans with the Earth's Rotational Dynamics; 1999 Elected President of IAG Geodynamics Section 1999-2003; 2000 Elected IAG representative to International Earth Rotation Service; co-convenor of IAG Assembly, Budapest September 2001; Chairman Scientific Organizing Committee 7th International Congress of Earth Sciences Santiago Chile October 2002. Session convenor/ co-convenor of 3 sessions at the IUGG Assembly Sapporo 2003; Geodynamics Commission Executive Committee 2003-2007; Joint Working Group 2.6 Member 2012-2016.
- International Astronomical Union Commission 19 (Earth Rotation): Consultant (1997-2000); Representative from the IAG (2000-present).
- International Earth Rotation Service: 1991-1996 Corresponding Member; 1991-2000 IERS representative to International Astronomical Union Commission 19, Earth Rotation; Coordinator for IERS New Directions workshop October, 1996; Leader of IERS New Directions Workshop, 1998; Head of Hydrology sub-bureau of the Geophysical Fluids Center 1999-. Member of IERS Reorganization Committee 2000, member IERS Directing Board 2000-2015; 2013-Member of Working Group on Co-Location
- University NAVSTAR Consortium (UNAVCO, Inc.) University of Texas Representative 2002- present; UNAVCO Corporate Treasurer 2002-Present; Audit and Finance Committee Chair 2014-
- National Research Council: Committee on Earth Studies, Space Studies Board, member 1992-95
- University of Texas San Antonio: Special Member of the Graduate Faculty, 2007-2010.
- American Geophysical Union: Associate Editor for Geodesy, Journal of Geophysical Research 1993-1999; AGU Public Affairs Committee 1994-1996; Geodesy Section Nominating Committee 1995; Co-Convenor of Union Symposium U05, Fall 1995 meeting; AGU Macelwane Medal Committee 1996-1998; Geophysical Research Letters Editor Search Committee 1996-97; AGU Whitten Medal Committee 2000-2004; co-convenor of session 'Geodesy at the fluid-solid boundary' Fall 2002 meeting. *Reviews of Geophysics* Editor Search Committee 2004 (Chairman).
- American Institute of Aeronautics and Astronautics: Co-Convenor of Global Positioning System sessions at the First Argentine-US Space Conference, Buenos Aires, Argentina, September, 1997.

Honors and Awards

2014-	Carlton Centennial Professor in Geophysics, UT Austin
2011	Barton Springs Edwards Aquifer Conservation District Groundwater Stewardship Innovation Award Nominee
1995	Fellow, International Association of Geodesy
1994	Phi Kappa Phi National Honor Society
1994	Houston Oil and Minerals Excellence Award, Dept. of Geological Sciences
1992-2014	Wallace E. Pratt Professor of Geophysics, UT Austin
1984-1995	Jackson and Shell Centennial Teaching Fellows, University of Texas at Austin
1989	Journal of Geophysical Research Editor's Citation as an Outstanding Referee
1987	Chinese Academy of Sciences Invited Lecturer at Beijing Normal University, Wuhan Institute of Geophysics, and Shanghai Observatory.
1981	ARCO Oil Company young faculty award, \$5,000 prize
1969-1973	Society of Exploration Geophysicists Foundation Scholarship Recipient
1969	University of California San Diego Intercollegiate Athletics Letter in Men's Crew
1965-1966	Eagle Scout, Boy Scouts of America; Bank of America Mathematics Achievement Award; California Scholarship Federation Life Member.

Community and Public Service

1984-1986	Fire Chief, Director of Emergency Management, President and Vice President of Rollingwood Volunteer Firefighter's Association, City of Rollingwood, Texas
1984-1986	President and Vice-President Rollingwood Neighborhood Association.
1990-2000	Adult leader, YMCA Indian Guides and Boy Scouts of America programs.
2010-2018	Utility Commission, City of Rollingwood, Texas; Chair 2011-2018

University Service:

1994-2001	UT representative to University Corporation for Atmospheric Research (UCAR)
1991-1995	UT Global Environmental Studies Committee
1984-1995	UT Faculty Computer Committee
1996	Bureau of Economic Geology Organized Research Unit Review Committee
1996	Digital Information Sciences (DISC) Infrastructure Committee
2000-2002	College of Natural Sciences Promotion and Tenure Committee
2001-2002	Chairman, Department Faculty Search Committee
2002-	UT representative to University Navstar Consortium (UNAVCO, Inc.)
2005-2008	Faculty Research Assignment Panel – Office of Dean of Graduate Studies
2006-	Texas Interdisciplinary Plan Advisory Committee
2006	Jackson School Representative: Provost's Curricular Reform Implementation Committee; Committee on Undergraduate Curriculum Review.
2007-2009	Elected member (At Large) UT Faculty Council;
2007-2011	Committee on Student Financial Aid (Chairman 2007-08, Vice Chair 2009-11)
2009 -	Review Panel VP for Research, Limited Submission Reviews
2009-	Jackson School Alumni Council Member
2009-	Texas Interdisciplinary Program Faculty Panel (now Polymathic Scholars)
2009-	Member STEM Graduate Studies Committee (Science Teacher Education)
2009-2011	Chairman Department Information Technology Committee

2010-16 Geophysics Discipline Lead, Department of Geological Sciences
 2011-12 Faculty Search Committee, Geotechnical Engineering, Cockrell School of Engineering
 2013-14 Faculty Search Committee, Chair Search in Remote Sensing, Department of Aerospace Engineering and Engineering Mechanics, Cockrell School of Engineering.
 2013-17 Undergraduate Advisor, Department of Geological Sciences
 2013-14 Shell Chair Search Committee, UTIG and Department of Geological Sciences.
 2014-15 Geophysics Faculty Search Committees, Department of Geological Sciences
 2015-16 Faculty Search Committee, Remote Sensing From Space (Aerospace Engineering), Cockrell School of Engineering
 2012-15 Jackson School Appointments Committee

Google Scholar Citation Statistics July 2019

	All	Since 2014
Citations	8003	3277
h-index	51	30
i10-index	112	

Graduate Student Supervision

Masters Students: employment history and subsequent position

Small: PhD at UCSD; then research staff at LDEO, Columbia University

Fuqua: Chevron Geosciences, Houston TX

Ebeniro: PhD at UT; then faculty, Dept. of Physics, U. of Port Harcourt, Nigeria

Gorham: Exxon Exploration; Seneca Resources Corp. Houston, TX

Fortier: Chevron Geosciences, Houston, TX

Greene: ARCO Houston, TX, then Hunt and other petroleum companies

Onstott: SOHIO Petroleum; President Juniper Systems, Austin, TX

Sagasta: UNOCAL International, Houston, TX

Barron: Exxon Production Research, Houston, TX

Gabay: Mobil Dallas, TX , Now Exxon Mobil, Houston

Dobbs: Petroleum Company, Aberdeen Scotland

Hinnov: PhD Johns Hopkins; Lecturer and Research Scientist at Johns Hopkins

Hoar: National Center for Atmospheric Research, Boulder, CO

Chen: Government employment in Trinidad

Reiber: Exxon Exploration, Houston, TX.

Clague: UNOCAL then Chevron Houston, TX, and Louisiana

Allen: Environmental engineering firm, Austin, TX

Berg: Graduate Studies at UC Irvine; faculty at Guelph U.

Krishnavikas Gudipati, 2003. Co-supervised with Sean Buckley, Aerospace

Engineering; then PhD UT Aerospace Engineering, now at Exxon-Mobil

Erick Leuro, 2004. Co-supervised with Sean Buckley, Aerospace

Engineering, now at ION Inc.

Honqiu Wu, 2011: A Superconducting Gravimeter for Hydrologic Studies.

Mattingley, Cooper, Sobehrad, Mueller, Chavez: MA in Geoscience Education (UTeach Program, 2011).

PhD Student and Postgraduate Careers:

Roberto Gutierrez: Bureau of Economic Geology; then Center for Space Research; UT Austin Research Scientist, retired, serving as Lecturer in Department of Geological Sciences

James Tsai: Texaco Research Lab, Bellaire, TX, now ARAMCO, Saudi Arabia

Steve Cardimona: Faculty member, Earth Sciences, Mendocino College, California

Jeff Paine: Bureau of Economic Geology, UT Austin Senior Research Scientist

John Kuehne: Colby College Waterville ME Computer Systems Group, now University of Texas McDonald Observatory

Tom Johnson: Senior Scientist US Naval Observatory; now at National Geospatial Intelligence Agency, Washington DC, currently assigned to NASA HQ

Jianli Chen: University of Texas Center for Space Research, Senior Research Scientist

Van Nuth: The Aerospace Corporation, El Segundo CA, Senior Scientist

Ki-Weon Seo: Hydrological applications of gravity recovery and climate experiment (GRACE),

by Ki-Weon Seo, 2005; Post-doctoral Fellow Jet Propulsion Laboratory, Pasadena, CA.; then

Korean Polar Science Agency; now faculty at Seoul National University.

Nedra Bonal: Post-doc then staff scientist Sandia National Laboratory

Chris Linick: Current Student

Corrinne Vassalo: Current Co-Supervisor with Srinivas Bettadpur

Undergraduate Honors Supervision

Wesley Neely: Graduated May 2014, Currently a grad student at Scripps Institution of Oceanography

Journal and book contributions.

***denotes senior author is student or post doc –not identified for the subsequent abstract section**

Wilson, C. and R. Haubrich, Meteorological Excitation of the Earth's Wobble, Geophysical Journal Royal Astronomical Society, 46, 707-743, 1976.

Wilson, C. and R. Haubrich, Atmospheric Contributions to the Excitation of the Earth's Wobble 1901-1970, Geophysical Journal Royal Astronomical Society, 46, 745-760, 1976.

Wilson, C. and R. Haubrich, Earthquakes, Weather, and Wobble, Geophysical Research Letters, 4, 283-284, July, 1977.

Wilson, C., Comments and Additional Investigations Concerning Chandler Tides in the Atmosphere, Journal of the Atmospheric Sciences, 35, 12, 2381-2387, 1978.

Wilson, C., "Estimation of the Parameters of the Earth's Polar Motion: in International Astronomical Union Symposium 82: Time and the Earth's Rotation, D. McCarthy, Editor, D. Reidel, Dordrecht, 1979.

Wilson, C. and Vicente, R., Analysis of the Homogeneous ILS Series, Geophysical Journal Royal Astronomical Society, 62, 601-611, 1980.

Wilson, C. and Gabay, S., Excitation of the Earth's Polar Motion: A Reassessment With New Data, Geophysical Research Letters, 8, 7, 745, 1981.

Wilson, C. and Vicente, R., Estimates of Chandler's Component of Polar Motion Made From Various Data Sets, Astronomische Nachrichten, 302, 5, 1981.

Ebeniro, J., Wilson, C., and Dorman, J., "Propagation of Dispersed Compressional and Rayleigh waves on the Texas Coastal Plain", Geophysics, 48, 1, 1983.

Wilson, C., and Smith, D., Cooling rate estimates from mineral zonation: resolving power and applications: Proceedings III Intern. Kimb. Conf., Volume 2, Kornprobst, ed., Developments in Petrology, Elsevier Publishing Company, 1984.

Wilson, C., Discrete Polar Motion Equations, Geophysical Journal Royal Astronomical Society, 80, 551-554, 1985.

Smith, D. and Wilson, C., Garnet-Olivine Equilibration During Cooling in the Mantle. American Mineralogist, 70, 30-39, 1985.

Wilson, C. and Smith, D., A Numerical Study of Mineral Zoning Formed During the Cooling of Finite Volume Grains. Journal of Geophysical Research, 90, 10351-10358, 1985.

Vicente, R. and Wilson, C., Polar Motion estimates from linear combinations of independent series, Astronomische Nachrichten, 307, 2, 137-147, 1986.

Wilson, C., The Abel-Fourier Method of Hankel Transformation: Applications to Seismic Data, Geophysical Prospecting, 34, 1986.

*Hinnov, L. and Wilson, C., An Estimate of the Water Storage Contribution to the Excitation of Polar Motion. Geophysical Journal, Royal Astronomical Society, 88, 437-459, 1987.

*Li, Z. and Wilson, C., A Damped Oscillator Model of the 50 Day Oscillation in the Length of the Day (in Chinese), Acta Astronomica Sinica: 28, 29-38, 1987.

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- Wilson, C., Kuehne, J., and Li, Z., Computation of Water Storage Contributions to Polar Motion, *International Astronomical Union Symposium 128 "Earth Rotation and Reference Frames"*, Wilkins and Babcock, editors, D. Reidel, 1988.
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- Wilson, C. and Kuehne, J. "Air and Water Contributions to the Excitation of Polar Motion," *International Association of Geodesy Symposium 105, Earth Rotation and Coordinate Reference Frames*, C. Boucher and G. Wilkins Editors, Springer Verlag, 1990.
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- *Kuehne, J., Wilson, C., and Johnson, S., 1996. Estimates of the Chandler Wobble Frequency and Q., *Journal of Geophysical Research* v. 101, B6, 13573-13580.

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- Chen, J.L., Wilson CR, X.G. Hu, B.D. Tapley, Large-Scale Mass Redistribution in the Oceans, 1993 - 2001, *Geophys. Res. Lett.*, 30,20, 2003,doi: 10.1029/2003GL018048, 2003
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- Chen JL, Tapley BD, Wilson CR, Alaskan Mountain Glacier Changes from Satellite Gravity, *Earth and Planetary Sciences Letters*, 248,353-363, 2006
- Chen JL, Wilson CR, Seo KW (2006), Optimized smoothing of GRACE time-variable gravity observations, *J. Geophys. Res.* 111, B06408, doi:10.1029/2005JB004064.
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Kim, BH, Seo, KW, Eom, J, Chen, J, Wilson, C.R. Accelerating ice mass loss and decreasing precipitation in Antarctic during the last decades. AGU Fall 2019 Abstract

Kim, JS, Seo KW, Jeon, T, Chen, JL, Wilson, CR. Missing Hydrological Contribution to Sea Level Rise, AGU Fall 2019 Abstract

Sponsored Research Activities

2019-2022	National Geospatial Intelligence Agency (Co-I with Daniella Rempe) \$496K. Sources of small gravity changes.
2016-2019	NASA. "Geophysical Interpretations of Earth Rotation and Low-Degree Gravitational Change and Implications on Core-Mantle Coupling". Co-I, PI Jianli Chen.
2012-2014	Omitron/US Air Force: Time Series Prediction for Satellite Ballistic Coefficients.Phase 2 \$321208. PI, 2012-2014, PAM Abusali co-PI
2012-2016	NASA Long-Term Variability of Earth Rotation, Low-Degree Gravity, and Climate Change, \$643K, Co-I (PI JL Chen; Co-I J. Riess)
2012-2016	NASA, Improved Estimation of Mass Variations within the Earth climate System from GRACE, \$706K, CoI (PI Jianli Chen).
2011-2015	NSF Long-Term and Interannual Variability of Antarctic Ice Sheet Mass Balance From Satellite Gravimetry. \$493K, Co-PI; PI Jianli Chen
2011-2012	Omitron/US Air Force: Time Series Prediction for Satellite Ballistic Coefficients. \$55000. PI.
2010-2013	Texas Higher Education Coordinating Board: Estimation of Water Storage in the Edwards Aquifer via Superconducting Gravimetry. \$76801. (PI; Co-PI's J. Sharp, B. Scanlon).
2009-2012	NASA THP: Estimating Regional-Scale Snow Water Equivalent from in-situ measurements, Remote-Sensing, and Land Surface Modeling with Assimilation, Co-PI Liang Yang PI. \$458,391, 9/1/0-98/31/12.
2008-2011	National Geospatial Intelligence Agency: Atmospheric and Oceanic Angular Momentum Variability and Forecasts, NURI Program, \$160000. (Co-PI with JL Chen PI).
2007-2010	NSF: International Polar Year: Investigation of Greenland Ice Sheet Mass Balance From Space-Borne Geodetic Measurements, Co-PI with JL Chen (PI) \$430,000.
2008-2013	NASA: Application of GRACE to water management in the High Plains Aquifer, (Co-PI, with B. Scanlon PI, other Co-PI's Niu, Zang, Chen) \$464,000.
2005-2014	NSF via contract with NEES, Inc.: NEES Consortium Operations: Shakers and Associated Instrumentation for Dynamic Field Studies of Geotechnical and Structural Systems (Co-PI with PI K. Stokoe and Co-PI E. Rathje), \$4,104,832
2004-2012	NSF: Development of an Integrated Superconducting Gravity Meter Sensor System for Subsurface Water Storage (PI with co-PI's Scanlon and Sharp) \$494,000.
2004-2008	NASA: Validating GRACE's Low Degree Gravity Determination with Earth Rotational Observations \$268,000, (Co- Investigator; PI is JL Chen)
2004-2008	NASA: Terrestrial Water Storage Variations Using GRACE: Estimation, Uncertainty and Validation \$243000. (PI of UT part of multi-institutional grant)
2002-2005	NASA: Estimating Water Content Variations, Error Analysis, and Validation of GRACE, Earth System Science Fellowship for Ki-Weon Seo, \$72,000, (PI)
2000-2004	NSF: Large Scale Mobile Shakers and Associated Instrumentation for Dynamic Field Studies of Geotechnical and Structural Systems (Co-PI with PI K. Stokoe and Co-PI E. Rathje), \$3,773,000.
1999-2003	NASA: Variations in Space Geodetic Time Series due to Water Redistribution and Other Sources (Principal Investigator), \$310,000.
1996-1999	NASA: EOS Global Change Fellowship, Angular Momentum Balance of the World's Oceans and Antarctic Ice Sheet Variations, supporting T.J. Johnson and V. Nuth \$66,000.
1996-1999	NASA: Intergovernmental Personnel Agreement, \$549,000. (Principal Investigator) NASA Headquarters Program Scientist for Geodynamics and Geopotential Fields.
1995-1999	NASA: High Frequency Variations in Earth Orientation and Rotation, \$152800. (Principal Investigator).
1995-1997	NSF: Acquisition of GPS Receivers, \$28,000. (Principal Investigator)
1995-1998	NSF: Optical Astrometric Data to measure Global Change, \$17688 (Principal Investigator)
1992-1997	NASA: Establishment of a FLINN Site in West Texas \$149500. (Principal Investigator);
1992-1995	NASA: Space Geodetic Studies of the India-Asia Collision Zone \$135,000 (Co-Investigator);
1992-1994	NASA:High Frequency polar motion and geophysical causes \$180,000. (Principal Investigator).
1990-2001	NASA: Earth System Dynamics: The Determination and Interpretation of the Global Angular Momentum Balance Using the Earth Observing System, \$3,787,202. Co Investigator, with Principal Investigator Prof. B. Tapley, and other Co Investigators Shum, Rosen, Ponte, Salstein, Schutz.
1987-1990	NASA: Supplemental Graduate Fellowship Support. \$54,000 for R. Gutierrez
1986-1991	NASA: Crustal Dynamics Project: \$324,967. Studies of water storage and other contributions to changes in the rotation of the earth. Principal Investigator
1977-1988	University of Texas at Austin University Research Institute: \$8600 for geodetic research support.
1983-1992	Associate Director Project SEER, Solid Earth Exploration Research, approximately \$125,000 annually from industrial sponsors (with Project Directors Backus and Stoffa).
1983-1984	National Science Foundation: \$52,000, Compositional Gradients in Peridotite: Observations and Numerical Models. (Co-principal investigator with Prof. Doug Smith).
1981-1983	National Science Foundation: \$78,000, measurements and interpretation of compositional gradients in peridotite. (Coprincipal investigator with Prof. Doug Smith).
1981-1983	National Science Foundation: \$55,000, Continuing studies of basic properties of seismic reflection data and improved methods of processing and interpretation. (Co-principal investigator with Milo M. Backus).
1978-1981	National Science Foundation: \$98,000, Studies of basic properties of seismic reflection data and improved methods of processing and interpretation. (Co-principal investigator with Milo M. Backus).