

CURRICULUM VITAE

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Dept. of Civil and Environmental Engineering and Dept. of Earth System Science
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Researcher ID: B-3753-2008 <http://www.researcherid.com/rid/B-3753-2008>

EDUCATION

Ph.D. Engineering (Water Resources and Hydrologic Systems Analysis), UCLA, 1978
Dissertation: "Considerations of Stochastic Properties in Parameter Estimation of Hydrologic Rainfall-Runoff Models," 248 p., Director: John A. Dracup
Engineer Degree Systems Engineering, UCLA, 1977
M.S. Operations Research, UCLA, 1973
B.S. Mechanical Engineering (highest honor), California Polytechnic State University (Cal Poly), San Luis Obispo, California, 1971

EXPERIENCE

University of California at Irvine, Irvine, California
2003-present Distinguished Professor Depts. of Civil & Environmental Engineering and Earth System Science
2003-present Director, Center for Hydrometeorology & Remote Sensing (CHRS), Dept. of Civil & Environmental Engineering, The Henry Samueli School of Engineering
URL: <http://www.chrs.web.uci.edu/events.html>
2003-2007 Director, World Lab Center for Hydrometeorology and Water Resources Engineering

University of Arizona, Tucson, Arizona
2004-present Adjunct Professor, Dept. of Hydrology and Water Resources
2000-8/2003 Founding Director, NSF Science and Technology Center on "Sustainability of semi-Arid Hydrology and Riparian Areas" (SAHRA)
8/96-2004 Professor and Regents Professor (Since 2000), Dept. of Hydrology and Water Resources
8/89-8/96 Department Head and Professor, Dept. of Hydrology and Water Resources;
Professor, Dept. of Systems and Industrial Engineering
8/87-8/89 Professor of Hydrology and Water Resources and Systems and Industrial Engineering
1/83-7/87 Associate Professor of Hydrology and Water Resources

Case Western Reserve University, Cleveland, Ohio
7/78-12/82 Assistant Professor of Systems Engineering and Civil Engineering

AREAS OF RESEARCH INTEREST

Surface hydrology, hydroclimate modeling, application of remote sensing in hydrology, rainfall-runoff modeling, flood forecasting and control, identification and stochastic parameter estimation, watershed management, system simulation and analysis, operations research, decision analysis

ACADEMY MEMBERSHIPS

-U.S. National Academy of Engineering (NAE) – **Member**, 2003 – "*For the development of flood forecasting models used worldwide in hydrologic services*"
-International Academy of Astronautics (IAA) - **Member**, 2007

-The World Academy of Sciences (TWAS) *for the advancement of science in developing countries*, **Fellow**, 2010

PROFESSIONAL SOCIETY FELLOWSHIPS AND MEMBERSHIPS

Fellow, International Union of Geodesy and Geophysics (IUGG), 2019
Fellow Member of the World Academy of Sciences (TWAS)
Fellow, American Association for the Advancement of Science (AAAS), 1997
Fellow, American Meteorological Society (AMS), 1995
Fellow, International Water Resources Association (IWRA), 2001
Life Member, American Society of Civil Engineers (ASCE) (2013) (member since 1979)
Life Member, Phi Kappa Phi, 1988
Life Fellow, Indian Association of Hydrologists, Roorkee, India
Member, American Water Resources Association (AWRA)
Member, International Association of Hydrological Sciences (IAHS)

TEACHING AWARDS AND RECOGNITIONS

Engineering Student Council (ESC) UCI Civil & Environmental Engineering Professor of the Year, 2010-2011
Orange County Engineering Council (OCEC) Distinguished Engineering Educator Award (2009)
Outstanding Professor, Henry Samueli School of Engineering (selected by Anthology and the Senior Class of 2009)
American Society of Civil Engineers (ASCE) Orange County Branch 2007-2008 Distinguished Engineering Educator

OTHER HONORS AND AWARDS

Hydrological Sciences Medalist, American Meteorological Society (AMS), 2021 – *“For ingenious, groundbreaking work on surface hydrology and the remote sensing of precipitation that has profoundly impacted the field of hydrometeorology”*
American Geophysical Union Hydrology Days Award, Colorado State University, April 2020
Soroosh Sorooshian Symposium, 12th International Precipitation Conference (IPC12), The Beckman Center of the National Academies, Irvine, CA USA June 2019
Lifetime Achievement Award, Institute of Electrical and Electronics Engineers (IEEE) Systems, Man, and Cybernetics (SMC) Society 2018
Ven Te Chow Award, 2017 American Society of Civil Engineers (ASCE) – *“For his pioneering contributions to hydrologic science and water resources systems engineering, including hydrometeorology, hydroclimate studies and application of remote sensing with special focus on the hydrologic cycle and water resources issues.”*
Chinese Academy of Sciences (CAS) Einstein Professor award, 2014
Robert E Horton Medalist, American Geophysical Union (AGU), 2013
UCLA CEE Distinguished Alumnus of the Year Award 2013
American Society of Civil Engineers (ASCE) Life Member Award 2013
Eagleson lectureship, Consortium of Universities for the Advancement of Hydrologic Science (CUAHSI), 2012
4th Prince Sultan Bin Abdulaziz International Prize for Water, Resources Management & Protection Branch category award – *“for his work in developing the PERSIANN model to estimate global precipitation for satellite data”* (2010)
Honorary professorship, Beijing Normal University (2010)
Walter Orr Roberts Lecturer in Interdisciplinary Sciences Award, American Meteorological Society, 2009 – *“For bridging the interdisciplinary gap between hydrology, meteorology, and remote sensing.”*

UNESCO Great Man-made River Prize, 2007 awarded to UCI Center for Hydrometeorology and Remote Sensing (CHRS) and NSF STC SAHRA (Sustainability of semi-Arid Hydrologic and Riparian Areas)
Fellow, Japan Society for the Promotion of Science (JSPS) Award, 2006, 1998, 1989
Robert E. Horton Memorial Lectureship, American Meteorological Society, 2006 - *“For significant contributions for estimating precipitation from space-based imagery and for application to semi-arid region hydrology and water resources management.”*
Recipient, NASA Distinguished Public Service Medal, 2005 - *“For your distinguished record in providing scientific leadership for global water cycle research and assuring that NASA science is well integrated into international programs”*
William Nordberg Memorial Lectureship, NASA Goddard Scientific Colloquium, 2004
Group Honor Award for Excellence, U.S. Department of Agriculture, 2001-, for *“leading a multi-agency effort to provide critical hydroecological information and new measurement for sustaining our precious semi-arid natural resources”*,

Regents Professor, University of Arizona, 2000

Fellow, Udall Center for Studies in Public Policy, University of Arizona, Tucson, AZ 1993

HEARINGS AND TESTIMONIES

Testimony for the hearing before the National Ocean Policy Study of the Committee on Commerce, Science, and Transportation, U.S. Senate on: Authorizations for the National Oceanic and Atmospheric Administration's Atmospheric and Satellite Programs, Chaired by Senator Kerry of Massachusetts, May 19, 1987.

Testimony on the “Potential Impacts of the El Nino and the Implications for Water Management Decisions in the U.S. Southwest” to the Subcommittee on Water and Power of the U.S. House of Representatives Committee on Resources, Washington, D.C., October 30, 1997.

PUBLISHED PAPERS

Author and Co-author of: 300+ peer-reviewed papers (ISI h-index 69); 7 books; 33 Contributions in books; 4 Discussions, Replies, Book reviews; 44 Conference Proceedings; 32 Research Reports; 300+Abstracts.
Researcher ID:B-3753-2008 ; ORCID ID: <http://orcid.org/0000-0001-7774-5113> ; Scopus Author ID: 7005052907

PRESENTATIONS

180+ Invited speaker and Keynote talks for professional, academic, national and international agencies

CONFERENCES AND SYMPOSIA ACTIVITIES

Organizer, host, chair/co-chair, session convener /co-convener, panelist for 35+ conferences/workshops/meetings since 2003

RESEARCH SUPPORT

PI and Co-PI on over \$60 million (to date) on research projects funded by various agencies including NSF,NASA, DOE, USGS, NOAA, ARO, World Bank, among others.

ACADEMIC SERVICE

Sponsor: 22 Post-doctoral scholars and Researchers; 25 Visiting Scholars; 13 Visiting Students
Faculty Advisor: Total Number of Graduate Students: 100; Ph.D. students: 56; M.S. students: 44
Service on Thesis/Ph.D committees: 103

PROFESSIONAL ACTIVITIES

Professional Societies

American Association for the Advancement of Science (AAAS); American Geophysical Union (AGU); American Meteorological Society (AMS); American Society of Civil Engineers (ASCE); American Water Resources Association (AWRA), International Water Resources Association (IWRA), International Association of Hydrological Sciences (IAHS)

Editorial

1983-1988: Associate Editor, *Water Resources Research*
1988-1992: Editor, *Water Resources Research*
1993-2001: Editorial Board of *Iranian Journal of Water Resources Engineering*
1995-2005: Member, Editorial Board, UNESCO International Hydrological Programme
1996-2001: Special Editor for Hydrology, *Bulletin of the American Meteorological Society*
2002-2005: Associate Editor, Climate Change of the Encyclopedia of Hydrological Sciences
1999-present: Editorial Board, *Scientia Iranica: International Journal of Science and Technology*
2000-2013: Editorial Board, *Advances in Water Resources*, Elsevier Publishing Company
2002-2016: Editorial Board, *Computer-Aided Civil and Infrastructure Engineering*
2004-2015t: Associate Editor/Editorial Board, *International Journal of Ocean & Oceanography*
2007-2013 Associate Editor, *Journal of Hydrology*
2008-present Member, Editorial Board *IEEE Systems Journal*
2009-2015 Member, Editorial Board, *Iranian Journal of Science and Technology (IJST)*

2020-present: Member, Editorial Board, *Geography and Sustainability*
2020-present: Member, Editorial Board *Remote Sensing*

Committee and Panel Assignments

International

1981-1989: Member, Working Group of Water Resources of the International Federation of Automatic Control (IFAC)
1983-1987: Member, Hydrology 2000 Working Group, International Association of Hydrological Scientists (IAHS)
1991-1992: Member, Science Panel, GEWEX Continental-Scale International Project (GCIP), World Climate Research Programme
1992-1999: Member, Science Steering Committee, International Satellite Land Surface Climatology Program (ISLSCP)
1993-1999: Member, International Geosphere-Biosphere Programme (IGBP), Data Information System (DIS) Soils Working Group
1997-1999: Member, Global Energy and Water Cycle Experiment (GEWEX) Scientific Steering Group
1997-2008: Director, World Laboratory Center in Hydrologic Sciences and Water Resources Engineering
1999-2008: Chair, GEWEX Scientific Steering Group, WCRP Joint Scientific Committee
6/1999: Member, International Organizing Committee (IOC), Third International Scientific Conference on the Global Energy and Water Cycle EXperiment (GEWEX), Beijing, China, June 1999
2000-01: Member, Frontier Research System for Global Change (FRSGC) Panel, Tokyo, Japan
9/2001: Co-Chair, Organizing Committee, International Program Committee, 4th International Scientific Conference on the Global Energy and Water Cycle EXperiment (GEWEX), Paris, France, September 2001
2002-2007: Member, UNESCO Theme Advisory Board of the Sixth Phase of the International Hydrological Programme, Theme Area 1: Global Change and Water Resources
2002: Corresponding Member for Section 1, International Academy of Astronautics
2005: General Chair, 5th International Scientific Conference on the Global Energy and Water Cycle (GEWEX), Irvine CA, June 20-24, 2005
2006-2011: Member, Scientific Committee of the Ettore Majorana Foundation and Centre for Scientific Culture (EMFCSC)
2005: Director of 2005 International Summer School on Atmospheric and Oceanic Sciences (ISSAOS), L'Aquila, Italy, August 29- September 2, 2005
1997-present: U.S. Member, World Meteorological Organization (WMO) Commission for Hydrology (CHy)
2004-Present: Member, Executive Committee of G-WADI UNESCO
2006-Present: Member, U.S. National Committee for the International Hydrological Programme (IHP-UNESCO)
2009-2013: NERC United Kingdom Changing Water Cycle Programme Advisory Group (NERC-UK)
2010-2014: World Climate Research Programme Drought Interest Group (WCRP-DIG)
2013-2018: Member, Joint Scientific Committee (JSC) of the World Climate Research Programme (WCRP)
2013-Present: Member, Independent Expert Committee (IEC) in the field of Engineering, Third World Academy of Sciences (TWAS)
2013-2015: Member, Expert Review Panel Water and Green Growth (WGG) joint research Project by the Ministry of Land, Infrastructure and Transport of the Republic of Korea (MOLIT), the Korea Water Resources Corporation (K-water), and the World Water Council (WWC)
2015-Present: Chair- Rosenberg International Forum on Water Policy, University of California, Division of Agriculture and Natural Resources <http://ciwr.ucanr.edu/Programs/rosenberg/2018>
2018-Present: Member international advisory committee, Chinese Academy of Sciences "Big Earth Data" Strategic Priority Research Program
2018-Present: Member Steering Committee, International Geographical Union (IGU) Commission: Geography for Future Earth: Coupled Human-Earth Systems for Sustainability
2018: Member Selection Committee, the World Academy of Sciences (TWAS) Lenovo Science Prize

National

American Geophysical Union (AGU)

1984-1987: Program Chair and Member of Program Committee for Fall Meetings, Hydrology Section
 1984-2002: Member, Executive Committee, Hydrology Section
 1994-1996: Chair, Langbein Lecture Selection Committee, Hydrology Section
 1994-1996: Member, Publications Committee, Hydrology Section
 1996-1997: Chair, Editorial Search Committee for *Reviews of Geophysics*
 1996-1998: Chair, AGU Nominations Committee
 1996-1998: Chair, Fellows Selection Committee, Hydrology Section
 1996-1998: President-Elect, Hydrology Section
 1998-2000: President, Hydrology Section
 2001-2002: Chair, Union Committee to review Section Structure
 2000-2001: Chair, Nomination Committee for Hydrology Section Officers
 2002-2004: Member, Horton Medal Committee
 2004-2008: Chair, Public Affairs Committee (COPA)
 2015-Present Member, Board of Directors

American Meteorological Society (AMS)

1988-1991: Member, Committee on Hydrology
 1992-1995: Member, AMS Council
 1997-1998: AMS Nominations Committee
 1998-2002: Member, Planning Commission
 1998-2002: Member, Committee to review *Bulletin of the American Meteorological Society (BAMS)*
 2008-2012 Member, Awards Nominations Committee

Department of Agriculture (USDA)

2007 Member, FACA committee to review the CCSP SAP on Impacts of Climate Change on US Ecosystem Impacts

Department of Energy (U.S. DOE)

2006-2010 Chairman, Climate Change Science Program Product Development Advisory Committee

Jet Propulsion Laboratory (JPL)

2012-2017 Member, Advisory Board, JPL Climate Center

Los Alamos National Laboratory (LANL)

2006-2011 Member, LANL Earth and Environmental Science (EES) Division Review Committee

The National Academies

2016-Present Member, Steering Committee, decadal survey for Earth Science and Applications from Space (ESAS2017), National Academy of Sciences (NAS)

National Academy of Engineering (NAE)

2004-2006 Liaison to the National Research Council (NRC) (for applied atmospheric sciences, space engineering, military [non-navel] engineering, acoustics, emerging technologies, and interdisciplinary areas)
 2006-2009 Member, Special Fields and Interdisciplinary Engineering Peer Committee
 2012-Present Member, Beckman Center Advisory Board
 2015-2016 Chair, NAE Section 12

The National Academies- National Research Council (NRC)

1990-1991: Member, Committee for the Restoration of Aquatic Ecosystems, Water Science and Technology Board (WSTB)
 1991-1998: Member and Ex-Officio, Climate Research Committee (CRC), Board on Atmospheric Sciences and Climate (BASC)
 1993-1994: Member, NRC Panel: Study on the Long-Term Retention of Selected Scientific and Technical Records of the Federal Government, Commission on Physical Sciences, Mathematics, and Applications
 1992-1998: Member, NRC Committee on Geophysical and Environmental Data (CGED), Board on Earth

Science and Resources (BESR)
 1993-1999: Chair, GEWEX Panel, NRC Board on Atmospheric Sciences and Climate (BASC)
 1996-1998: Ex-Officio Member, NRC Committee on Global Change Research (CGCR), Board on Sustainable Development
 2000-2001: Member, NRC Committee to review NASA's Earth Science Enterprise (ESE) Research Strategy
 2003-2005: Member, NRC Committee to Review the U.S. Army Corps of Engineers Upper Mississippi River-Illinois Waterway Restructured Feasibility Study.
 2004-2006: Chair, Committee to Assess the National Weather Service Advanced Hydrologic Prediction Service Initiative (AHPS).
 2005: Member, NRC Committee to Review GEWEX-Americas Prediction Project (GAPP)
 2007-2018: Member, Beckman Center Advisory Board
 2007-2011: Member, Space Studies Board
 2007-2010: Member, Water Science and Technology Board
 2007: Chair, Panel to review the CCSP Draft Synthesis and Assessment Product 5.3
 2007: Member, Panel on Strategies and Methods for Climate-Related Decision Support
 2011-2014: Member, Partnerships for Enhanced Engagement in Research (PEER) oversight committee
 2016-2017: Member, Steering Committee, NRC Decadal Survey for Earth Science and Applications from Space

National Atmospheric and Space Administration (NASA)

1990-1991: Member, Working Group of Electronically Scanned Thinned Array Radiometer (ESTAR) Science Team
 1994-1997: Chair, Panel on Physical Climate and Hydrology
 1994-1997: Member, Science Executive Committee (SEC), InterWorking Group (IWG) of Earth Observing System (EOS)
 1994-1997: Member, User Working Group, Oak Ridge National Laboratory (ORNL) Data Acquisition and Archival Center (DAAC)
 May 1999: Member, Visiting Review Committee, Earth Sciences Directorate, Goddard Space Flight Center, Greenbelt, MD
 1999-2005: Member, Earth Sciences Data and Information Systems and Services Advisory Subcommittee (ESDISSAS)
 2003: Member, GeoDESIC (Geophysical Data Exploration for Seasonal to Interannual Climate) Advisory Board, NASA REASoN CAN Proposal

National Oceanic and Atmospheric Administration (NOAA)

1993-2003: Member, Data Management Advisory Panel NRC
 1996: Co-leader, National Weather Service (NWS) Disaster Survey Team for the Northeast Flood of January 1996
 1997-1998: Member, Search Committee for Director of the National Weather Service
 1998-2002: Member, Science Advisory Board (SAB)
 1998-2002: Chair, Science Advisory Board Subcommittee for Data Systems
 2000-2005: Member, Committee on Climate and Global Change (CGC)
 2000-2001: Member, Panel on Strategies for Climate Monitoring
 2002-2005: Member, Council on Long-Term Climate Monitoring (CLTCM)
 2011-2014: Member, MAPP task force
 2002-present: Emeritus Member, NOAA Science Advisory Board
 2012-2014: Member, Science Advisory Board (SAB), NOAA Climate Test Bed (CTB) Climate Prediction Center (CPC)

National Water Research Institute (NWRI)

2004-2015: Member, Research Advisory Board (RAB)

Pacific Northwest Hydrologic Observatory (PNWHO)

2005-2009: Member, Science Advisory Board

American Water Resources Association (AWRA)

1986-1987: Chair, Statistics and Modeling Committee
 8/93: Technical Co-Chair, 29th Annual AWRA Conference, "Ground Water Resources Planning" Tucson, Arizona

University Corporation for Atmospheric Research (UCAR)

1999-2011: Member, Advisory Panel, UCAR National Centers for Environmental Prediction (NCEP)
2001-2006: Member, Board of Institutional Trustees
2002-2006: Chair, UCAR Personnel Committee

University Council on Water Resources (UCOWR)

1987-1990: University of Arizona Delegate

Universities Space Research Association (USRA)

10/98-9/99: Member, Advisory Committee for the 1999 Graduate Summer Student Program in Earth System Science, Goddard Visiting Scientist Program
1996-2002: Member, Science Council for Earth Sciences

Other Review Boards and Committees

1994: National Forum on Environment and Natural Resources (RND), Washington, D.C., Mar. 28-30
1992-1995: Member, Advisory Committee, Terrestrial Ecosystems Regional Research and Analysis (TERRA) Laboratory
1993: Member, Jet Propulsion Laboratory Earth Probe, Pasadena, California
1994: Committee for Review of the Research and Development Strategy for the U.S. Global Change Research Program (USGCRP), Sponsored by the NRC Board on Global Change
1994: Member, Interagency Working Group of Regional Assessment of Freshwater Ecosystems and Global Change in North America
1995-2000: Member, Committee on the Encyclopedia of Life Support Systems (EOLSS)
1997-2009: Chair, Scripps Experimental Climate Prediction Center (ECPC) Advisory Committee
2002-2003: Member, Stormwater Advisory Committee of City of Tucson
2003-2010: Member, Executive Committee of NSF-STC Sustainability of semi-Arid Hydrology and Riparian Areas (SAHRA)
2005-2010: Member, Advisory Board on watershed preservation issues, USC Center for Sustainable Cities Program
2006: Member, Project Advisory Board (PAB), NSF EPSCoR Idaho
2002-2013: Member, External Advisory Committee of Cooperative Remote-sensing Science and Technology Center (CREST)
2008-2012: Member, Advisory Board, Consortium of Universities for the Advancement of Hydrologic Science, Inc. (CUAHSI)
2009-2017: Member, California Council on Science and Technology (CCST)
2018-Present: Senior Fellow, California Council on Science and Technology (CCST)
2012-Present: Member, Advisory Board, Center for Climate Sciences, Jet Propulsion Laboratory (JPL)
2014-2018: Member-at-Large, Section on Atmospheric & Hydrospheric Sciences, American Association for the Advancement of Science (AAAS)
2016: Participant, Second national Earth Observations Assessment (EOA 2016), White House Office of Science & Technology Policy (OSTP), through the U.S. Group on Earth Observations Subcommittee of the Committee on Environment, Natural Resources, and Sustainability

External Examining and Assessment

1992: Member, *Review Panel*, Lawrence Berkeley Laboratory Earth Sciences Program
1994: Member, *Review Panel*, Office of Research and Development, Global Change Research Program, "Biosphere Interactions Modeling of the U.S. Environmental Protection Agency at ERL-C", Corvallis, Oregon
1999: Member, *Review Panel*, Pacific Northwest National Laboratory (PNNL) Global Change Program Los Alamos Review
2005: Member, *Advisory Panel*, GPM-GV Global Precipitation Measurement-Ground Validation, NASA GSFC, Greenbelt, MD
2005: Chair, *Review Panel*, International Research Institute (IRI), Columbia University
2005: Member, *science review panel*, CICS, U of Maryland, College Park Campus
2006: Member, *Review Panel*, Pacific Northwest National Laboratory (PNNL) Global Change Program

Los Alamos Review

2007 Member, evaluation committee Frontier Research Center for Global Change (FRCGC), Japan Agency for Marine-Earth Science and Technology (JAMSTEC)

2007 Member, Review Panel, NSF Vermont EPSCoR, Burlington, VA

2007 Member, Review Panel of Yucca Mt. Infiltration Model

2008 Member, evaluation committee Institute of Observational Research for Global Change (IORGC), Japan Agency for Marine-Earth Science and Technology (JAMSTEC)

2009 Member, Review Panel, National Severe Storm Laboratory (NSSL), University of Oklahoma, Norman, OK

2009 Member, Review Panel, Desert Research Institute, Division of Hydrologic Services, NV

2010 Chair, Review Panel, LANL Earth Space Capability Review, Los Alamos, NM

1997 Chair, *Advisory Panel*, Experimental Climate Prediction Center (ECPC), Scripps Institute, San Diego, CA

2012 Member, Site visit team, NSF CISE Expeditions program at University of Minnesota

2013 Member, Review Panel, DK proposal application to the Board of the Austrian Science Fund (FWF), Vienna, Austria, June 21, 2013

2013 Member, Expert Review Panel on Water and Green Growth (WGG) joint research project of the Ministry of Land, Infrastructure, and Transport of the Republic of Korea (MOLIT), Korea Water Resources Corporation (K-water), and the World Water Council (WWC). Korea, July 2013

2014 Member, AAAS Review Panel, CI-WATER, Utah-Wyoming NSF EPSCoR RII Track-2 project

2015 Member, NOAA Review Panel, National Severe Storm Laboratory (NSSL), University of Oklahoma, Norman, OK

2017 Member, Review Panel, DK proposal application to the Board of the Austrian Science Fund (FWF), Vienna, Austria, October 10-11, 2017

2019 Member, independent review team for the Evaluation of the International Centre for Water Hazard

External Reviewer University Programs

1994: University of Oklahoma, Hydrology Program, Norman, OK, Sept. 19-21

1998 University of Nevada, Las Vegas (UNLV), Water Resources Management (WRM) Graduate Program

2003 Georgia Tech, School of Earth and Atmospheric Sciences

2004 University of Washington, Dept of Civil and Environmental Engineering

2005 University of Texas at Austin, Dept. of Geological Sciences

2009 St. Cloud University, MN, Dept. of Earth and Atmospheric Sciences

2010 University of Colorado at Boulder, Cooperative Institute in Environmental Science (CIRES)

2010 University of New Mexico, Water Resources Program

2011 EPFL ENAC School, Lausanne Switzerland

2014 Colorado School of Mines, Dept. of Civil & Environmental Engineering

2015 Member, Review Panel, Institute of Earth Sciences and Research Center for Environmental Changes, Academia Sinica, Taipei, Taiwan

2018 Member, External Review committee, UCLA Sustainable LA Grand Challenge (SLAGC)

2019 Member, external review panel, NSF EPSCoR site visit, University of Vermont

University of California, Irvine (Current and Other Important Committees)

2003-2013 Member, Urban Water Research Center Review Board

2005-2008 Academic Senate Graduate Council

2005-2006 Chair, faculty of the Henry Samueli School of Engineering; Divisional Senate Assembly representative

2005-2014 Member, CalIT(2) Division Council

2005 Chair, Search Committee - Director for the Urban Water Research Center

2005-2006 Chair, Search Committee Vice Chancellor for Research and Graduate Studies

2005-2010 Member, Faculty and Lecturer/TA Teaching Quality committees, CEE Dept.

2005-2010 Member, Graduate Affairs committee, CEE Dept.

2003-2010 Member, local organizing committees for conferences and meetings as well as other college/department committees.

2007	Member, Search Committee HSSoE Dean
2007-2010	Member, Vice Chancellor for Research Advisory Committee
2007-2009	Member, Academic Senate Subcommittee on International Education (SCIE)
2007	Member, Distinctions Committee
2010-2014	Member, HSSoE Council on International Relations
2014	Member, UCI Provost Search committee
2010-2015	Member, HSSoE Academic Personnel Advisory Committee (APAC)
2016-2017	Chair, CEE Department Honors Committee

University of Arizona Committees

1986-1988:	Chair, University Committee on Research Computing
1986-1987:	Committee for Computational Sciences
1987-1988:	Chair, University Review Committee for Systems and Industrial Engineering Department
1987-1988:	Water Resources Policy Planning Committee
1988-2004:	Committee on Remote Sensing
1988-1993:	Coordinating Committee on Global Change
1989-1999:	Vice-President for Research Advisory Committee
1990-1991:	Advisory Committee on International Programs
1991-1993:	Chair, Computer Committee of College of Engineering and Mines
1992-1993:	Chair, Coordinating Committee on Global Change
1992-1993:	Member, Dean's Review Committee, College of Engineering and Mines
1993-2003:	Member, International Alumni Advisory Board
1994:	Chair, Search Committee for Head of Civil Engineering and Engineering Mechanics Dept.
1994:	Member, Search Committee for Head of Geosciences Dept.
1994:	Member, Sunset Review Committee for SERC
1997:	Chair, Search Committee for Head of Dept. of Civil Engineering
1997-1998:	Acting Chair, Remote Sensing Committee
1997-1998:	Member, Search Committee for Dean of College of Engineering and Mines
1998:	Member, Search Committee for Vice-President for Advancement
1998-2001:	Member, Strategic Planning and Budget Advisory Committee (SPBAC)
1998-1999:	Chair, NCA Self-Study Working Team 4
1999:	Chair, SERC Review
1999:	Member, Udall Center for Public Policy Faculty Advisory Committee
1999-2002:	Member, Governing Board for Center for Middle Eastern Studies
2000-2001:	Member, Prop 301 Steering Committee on Water
2000-2001:	Chair, Surface Water Position Search Committee
2000-2001:	Member, Atmospheric Sciences Position Search Committee
2001-2002:	Member, Kiesel Lecture Committee
2001:	Member, Academic Program Review Committee for Dept. of Geosciences
2002:	Member, Technology and Research Initiative Fund (TRIF) Water Advisory Committee