

TEXAS STATE VITA: 2019

I. ACADEMIC/PROFESSIONAL BACKGROUND

A. NAME: Richard A. Earl

TITLE: Professor

B. EDUCATIONAL BACKGROUND

Ph.D. 1983. Arizona State University
Major: Physical Geography. Minor: Geology
Dissertation: *The Hydrology and Climatology of the Skunk Creek Basin During Holocene Time*

M.A. 1979. California State University, Northridge
Major: Geography. Minor: Geology
Thesis: *Pleistocene Lake Danby, Southeastern San Bernardino County, California*

B.A. 1972. University of California at Los Angeles
Majors: Geography and Political Science (cum laude)

C. UNIVERSITY EXPERIENCE

Texas State University Department of Geography	Professor	2007-present
Texas State University Department of Geography	Undergraduate Program Coordinator	2005-2016
Texas State University Department of Geography	Associate Professor	1997-2007
Southwest Texas State University Department of Geography and Planning	Assistant Professor	1991-1997
Bowling Green State University Department of Geography	Visiting Asst. Professor	1990-1991
New Mexico State University Department of Earth Sciences	Geography Program Coordinator	1985-1990
New Mexico State University Department of Earth Sciences	Assistant Professor	1983-1990
Arizona State University Department of Geography	Teaching Associate (full class responsibility)	1979-1982
California State University, Northridge Department of Geography	Faculty Assistant (full class responsibility)	1977-1979

D. RELEVANT PROFESSIONAL EXPERIENCE

Land Use Economics Corporation Los Angeles, California	Landuse Analyst	1977-1979
Environmental Science, Consulting and Technology Corporation, Los Angeles, California.	Remote Sensing Analyst	1976-1978

II. TEACHING

A. TEACHING RELATED HONORS AND AWARDS

College of Liberal Arts, EXCELLENCE IN SERVICE AWARD, 2018.

RICHARD WAYNE SIMMONS GEOGRAPHY ADVOCACY AWARD, from the Department of Geography, Texas State University, 2015

Faculty Advisor, PRESIDENTIAL HONORS CHAPTER AWARD, from Gamma Theta Upsilon, international geography student honor society (>185 active chapters)—2014, 2015

FAVORITE PROFESSOR AWARD from the Texas State Chapter of Alpha Chi, interdisciplinary national scholarship honor society—2003, 2010, 2011, 2013, 2015, 2019

Faculty Advisor, HONORS CHAPTER AWARD, from Gamma Theta Upsilon, international geography student honor society (>170 active chapters)—2013, 2016

TEXAS STATE UNIVERSITY TEAM AWARD, CO-CHAIR UNIVERSITY COMMON EXPERIENCE PROGRAM 2009-2010, SUSTAINABILITY--summer 2011

OUTSTANDING SERVICE AWARD from the Department of Geography, Texas State University, 2011

TEXAS STATE UNIVERSITY EXCELLENCE IN SERVICE AWARD-2009

OUTSTANDING LEADERSHIP AWARD from the Department of Geography, Texas State University—2008.

ACHIEVEMENT IN GIS AWARD from the Texas State Student Organization in Geographic Information Science—2004.

EXCELLENCE IN TEACHING ENVIRONMENTAL SCIENCES AWARD from the Texas Commission on Environmental Quality—2003.

FAVORITE PROFESSOR AWARD from the Graduate Forum, SWT Department of Geography—2003.

A. TEACHING RELATED HONORS AND AWARDS, cont.

DISTINGUISHED TEACHING ACHIEVEMENT AWARD from the National Council for Geographic Education—2002.

STEPHANIE GOODBREAD ADVISOR OF THE YEAR AWARD from the Southwest Texas State University Honors program—Fall 2000-Spring 2001.

Faculty Advisor, CHAPTER OF THE YEAR AWARD, from Gamma Theta Upsilon, international geography student honor society (>160 active chapters)—1997, 2004.

TOP TEN FACULTY AWARD from Associated Students of New Mexico State University—Spring 1990.

B. COURSES TAUGHT

Texas State University/Southwest Texas State University (1991-present)

- World Geography
- Physical Geography
- United States and Canada
- Europe
- American Southwest
- Oceanography
- Geomorphology
- Fluvial Processes (Geomorphology)
- Water Resources (Undergraduate and Graduate)
- Environmental Management (Undergraduate and Graduate)
- Environmental Hazards and Land Management
- Field Methods (Undergraduate and Graduate)
- Regional Field Studies (Undergraduate and Graduate)
- Applied Physical Geography (Graduate)
- Seminar on Geographic Aspects of Water (Ph.D.)
- Teaching Environmental Sciences (Graduate)

Bowling Green State University (1990-1991)

- World Regional Geography
- Cultural Environment
- Meteorology

New Mexico State University (1983-1990)

- Survey of Geography
- Physical Geography
- World Regional Geography
- Map Use
- Broadcast Meteorology
- North America
- New Mexico

New Mexico State University, Cont.

Geomorphology
Arid Environments
Wine Regions of the World
Environmental Planning
Fluvial and Environmental Geomorphology (Graduate)
Late Quaternary Environments (Graduate)
Desert Ecosystems (Graduate and Undergraduate)
Field Methods (Graduate and Undergraduate)

Arizona State University (1979-1982)

Physical Geography (lecture and lab sections)

California State University, Northridge (1977-1979)

Physical Geography (lecture and lab sections)

B.5 Off-Campus Programs

Physical Geography and Geology of the American Southwest, Organizer and Director, 2004, 2006, 2008, 2010, 2012, 2014, 2016.

Geography of Europe, Organizer and Director, 1999, 2001, 2005, 2009.

Geography of Chile, Organizer and Director, 2007.

C. GRADUATE THESES/DISSERTATIONS—Completed Degrees

Ph.D. Dissertation Committee Member

Upendra Bom, “Understanding Perceptions of Climate Change and Adaption Strategies: A Case Study of Lower Mustang, Nepal.” August 2019

Carolyn McClure, “Significance and Influence of the National Geographic Alliance Network on the 25th Anniversary Through the Voices of the Leaders in Geography Education.” May 2018.

William G. Adams, “The Protracted Dispute over the Edwards Aquifer: Revisiting and Reframing Multiparty Stakeholder Conflicts in Management, Regulation, Allocation and Property Rights.” May 2017.

Gregory Klaus, “Perceived Risk and Response to the ice throw Hazard Comparing Community Stakeholders and Operations and Maintenance Personnel in Two Regions of Texas,” May 2017.

Jamie Zech, “From the Grass Roots to the Tree Tops: Success, Space and the Geography of Environmental Organizations,” May 2014.

Lawrence Kleitches, “Geoeducational Agents: The Role of Motion Pictures and Television Programs in the Recognition of Landscapes.” December 2013.

Stephen G. Tsikalas. "A Quantitative Analysis fo the Geomorphic Agency of Mud-Nesting Swallows in Central Texas." August 2012.

Brian J. Cooper. "The Analysis of Teaching Effectiveness Evaluation Programs in Geography Departments in the United States." May 2012.

Ph.D. Dissertation Committee Member, cont

Charles Joseph Boggess. "An Examination of the Four Paradigms of Policy Implementation as it Applies to the United States Air Force: The National Environmental Policy Act of 1969." December 2010.

Lara M.P. Bryant, A Phenomenological Study of a Collaborative Inquiry Model for Teaching Educators to Use Geographic Information Systems." May 2010.

Edris J. Montalvo, "The Recruitment and Retention of Hispanic and African-American Undergraduate Students in Public Universities in the U.S. 2000-2006." May 2010.

Helen H. Bartell, "Communicating Risk to an At Risk Population Concerning Future Water Shortages: Focusing on Senders and Receivers of Low-Key Warning Messages in South-Central Texas." August 2007.

James Vaughan, "Growth and Change in a Paradigmatic Region: Is it Sustainable? Does Planning make a Difference?" December 2006.

Paul S. Sutton, "Human Migration Processes and Water Quality in the Austin-San Antonio Corridor." December 2001.

Zinnong Zhou, "Geographic Concentrations of Lung Cancer Mortality in Texas and their Relationships to Environmental and Sociological Conditions." December 2000.

Todd W. Votteler, "Water from a Stone: The Limits of the Sustainable Development of the Texas Edwards Aquifer." May 2000—first Ph.D. granted by the Department of Geography and by Southwest Texas State University.

Masters' Theses Completed (Chair)

Alison W. Owen. "Relationship between Wind and Solar Electrical Energy Potential in the Texas Hill Country: A Study at the Texas State Freeman Ranch." 2015, 71 p.

Shaun D. Payne. "A Cost-Benefit of Water Conservation: An Analysis of Three Water Conservation Alternatives for San Marcos, TX." 2014, 55p.

Patricia A. Foran, "The Effect of Antecedent Dry Time on Water Quality Inflow and Outflow to Wet ponds and Pollutant Removal Efficiency." 2008, 113 p.

Masters' Theses Completed (Chair), Cont.

Kirk A. Schoppe, Effectiveness in Reducing Water Demand: Landscape Oriented Water Conservation for Kyle, Texas." 2008, 81p.

C. Andrew Day, "Groundwater Contaminant Concentrations of Land Use Categories for the Barton Springs Edwards Aquifer, TX ." 2007, 88 p.

Emily E. Manderson, "Species Composition on Four Basalt Flows at El Malpais National Monument, New Mexico." 2002, 71 p.

Humberto Ramos, "Evaluating the Effectiveness of the San Antonio Water System Residential "Kick the Can" Retrofit Program." 2002, 43 p.

Dina Marie Zamarripa, "The Effects of Urban Development on Recharge of the Edwards Aquifer in San Antonio/Bexar County, Texas." 2002, 67 p.

James E. Michalk, "The Effect of Urbanization on Highest Maximum and Highest Mean Summer Stream Temperatures: Trinity and San Antonio River Basins, Texas." 2000, 501 p.

Michelle Christopher, "An Analysis of the Effect of Effluent from A.E. Wood State Fish Hatchery on the San Marcos, River." 1998, 51 p.

Albert El-Hage, "Water Reuse in Agriculture: Use of Treated Wastewater for Irrigation in Jordan." 1998, 64 p.

Kelley A. Anderson, "Environmental Factors Affecting Protection and Propagation of the Longnose Darter." 1997, 146 p.

Stephen Bayles, "Industrial Groundwater Conservation Methods: An Analysis of Using Central Arizona Project Water for Industrial Processes in the Tucson Active Management Area." 1997, 64 p.

Meredith A. Beckner, "Water Quality of Streams of the Nueces and San Antonio River Basins in Edwards, Real, and Bandera Counties." 1995, 91 p.

David M. Sherrill, "Guidelines for a Comprehensive Mitigation Management Plan for Texas Coastal Wetlands," 1994. 196 p.

Masters of Applied Geography, Directed Research Reports Completed (Chair)

Matthew Franco, "Preliminary Findings for Sizing a Bioretention Pond and an Analysis of Urban Stormwater Runoff: San Marcos, TX." 2019.

Brady Haynes, "Analysis of Irrigation, Industrial and Municipal Groundwater Transfers in Edwards Aquifer Region from 2005 through 2014." 2015

Masters of Applied Geography, Directed Research Reports Completed (Chair)

Julie Cornelius, "Participation in the San Antonio Water System Water Saving Landscape Incentive Programs." 2014

Katherine Riddle, "The Estimated Size and Annual Recharge of the Leona Gravel Aquifer in Guadalupe County, Texas." 2014

Dean A. Watson, "Examining the Fluctuations of Comal Springs Flow Rates and Associated Social and Climatic Contributors." 2014.

Charles Flatten, "An Analysis of Desalinating Brackish Edwards Aquifer Groundwater." 2013

Kevin T. Kemp, "The Effects of the Lower Colorado River Authority's Brush Management Program on Inflows into the Highland Lakes." 2013

William J. Kohlrenken, "Estimating *in situ* groundwater recharge to the Llano Uplift Aquifer System Using GIS." 2013.

Ryan K. Spencer, "Texas Outdoor Family: A Study of Family Camping in Texas and Outdoor Education Success." 2013.

Michael K. Tucker, "Public Perception of Reclaimed Wastewater as a Municipal Water Supply." 2013.

Kala S. Berg. "An Analysis of The City of Austin 2011 Recreation Center Programs Assessment to Determine Potential Participation Rates of Outdoor and Nature-based Programs at Austin Recreation Centers." 2011.

Brandon J. Burton. "Prehistoric Cultural Resources on the Too Many Rocks Ranch Along Lone Man Creek, Wimberley, TX." 2011.

John Hjort. "Freshwater Bacterial Impairment in Texas: Policy Evaluation and Assessment of Effectiveness." 2011.

Ryan McGillicuddy. "Developing a Framework for Dam Removal in Texas: Lessons that can be learned from other states" 2011.

Marco A. Mireles. "A Case Study of the Cypress Creek Project: Understanding Development and Watershed Protection." 2011.

Ashley N. Naber. "Geographic Factors Affecting the Viability of Vegetative Roofs on Large Scale Buildings in San Antonio, Texas." 2011.

Andrew Clamann, "Lake Shoreline Stabilization with Coir Logs and Wetland Vegetation." 2010.

Directed Research Reports Completed (Chair), cont.

Sophia Hurtado. "Exploring the Relationship between Mercury Deposition, Ambient Mercury in Surface Water, and Land Cover." 2009.

R. Shane Bricker, "The Changing Mouth of the Colorado River, Texas." 2008.

Charles A. Cowsert, "Environmental Change at Pedernales Fall State Park, 1951-2002." 2008.

Bryan Anderson, "The Impacts of Storm Water Runoff from Residential Construction Activity and Effectiveness of Regulatory Enforcement on Water Quality in the Upper Plum Creek Watershed of Central Texas." 2006.

Kevin Bailey, "Assessing the Impact of Precipitation Events on the San Marcos River as a Contact Recreation Waterway." 2005.

Kristy Knaupp, "An Environmental Assessment of the Proposed City of Marble Falls, Texas Industrial Park." 2004.

Carol Ready, "Development of a Junior Master Naturalist Program for Texas." 2004.

Grady Reed, "Development of a Daily Water Demand Model for Selected Texas Cities: A Comparison of Daily Climate Variations on Water Demand." 2004.

Aaron Buck, "Constructed Wetland Types and Nonpoint Source Pollution Mitigation in Urban Watersheds." 2003.

Drew Engelke, "A Reassessment of the Clopton Crossing Dam and Reservoir on the Blanco River, south-central Texas." 2003.

Robert B Botto, "Watershed Impervious Cover and Population Density in Austin, Texas: A Functional Relationship." 2002.

David E. Pritchard, "An Analysis of the Effects of Changes in Land Use on Floodplains of Helotes, Creek 1953-2002." 2002.

Jon Becker, "Pinpointing the No-Point Sources: The Relationships Between Land Use and Water Quality in Austin, TX Watersheds." 2001.

Greg Adamietz, "An Analysis of the October 1998 Flood and the 100-year FEMA Floodplain Along the San Marcos River Using DOQQ Imagery." 2000.

H. Edward Wilcut, "A Comparison of Water Consumption Patterns Between Bill Allocated and Non-Allocated Multifamily Residential Establishments in an Antonio, Texas." 2000.

Directed Research Reports Completed (Chair), cont.

Tara Masser, "The Influence of Artificial Channel Design on a Small Rural Stream in the Texas Hill Country." 1999.

Thomas Griffith, "Applying GIS to a Vulnerability Model for the Edwards Aquifer, in Comal County, Texas." 1998.

David Murdoch, "Modeling Flood Characteristics of the Sandy Creek Drainage Basin, Central Texas." 1998.

David Wilkins, "Effects of Landuse Changes on the Flooding Potential of Cypress Creek, Harris County, TX." 1998.

Randle R. Nichols, "Eutrophication and the Central Texas Highland Lakes." 1997.

Carol Stuewe, "An Analysis of Factors Affecting Residential Water Consumption in Texas." 1997.

Scott Yeager, "Ranking Closed Municipal Solid Waste Landfills (CMSWLF's) for Remedial Action in Harris County, Texas." 1997.

Scott Davis, "Assessing Wastewater Disposal for Colonias in Cameron County, Texas." 1996.

Christopher Dolan, "A Risk Assessment of the Existing Underground Storage Tanks Located Within the Recharge and Transition Zones of the Edwards Aquifer in Bexar County, Texas." 1996.

Ersin Sandal, "Landuse Effects on the Water Quality of the San Marcos River, Texas." 1996.

Mohammad Tangestani, "An evaluation of Best Management Practices (BMP's) to Control Nonpoint Source Pollution (NPS) at Pace Bend Park, TX." 1996.

C ½ Undergraduate Honors Thesis Chair

Nadine Oliver, "The Post-Communist Urban Landscape of Bucharest, Romania." August 2014.

Rebecca S. Beard, "Measuring Greenness: A Study of the SWT Environmental Program." May 2001.

III. SCHOLARLY/CREATIVE, A. WORKS IN PRINT

1. a. Books

2008. Estaville, Lawrence E. and Richard A. Earl, *Texas Water Atlas*. College Station, TX Texas A&M Press, 131p.

1. d. Chapters in Books

2018. DeHon, R.A. and Richard A. Earl, "Aden Lava Flow, Doña Ana County, New Mexico." *New Mexico Geological Society Guidebook, 69th Field Conference: Las Cruces Country III, p. 197-202*. Socorro, NM: New Mexico Geological Society.

2017. Earl, Richard A. "Water Budget," *International Encyclopedia of Geography: People, the Earth, Environment, and Technology*. New York: John Wiley, v. XIV, p. 706-709.

2015, Earl, Richard A. and John A. Harrington. "Relationship of Rio Grande Headwaters Precipitation and Discharge to the Southern Oscillation Index," *in Selected Readings in Climatology*. Newcastle Upon the Tyne, UK, Cambridge Scholars Publishing, p. 169-180.

2005, Earl, Richard A. and Todd Votteler, "Major Water Issues Facing South-Central Texas," *in Water for Texas*. College Station, TX, Texas A&M Press, p. 75-88.

1999. Petersen, James F. and Richard A. Earl, "Trends and Developments in University Level Geography Field Methods Course in the United States," *in Fieldwork in Geography: Reflections, Perspectives and Actions*. The Netherlands: Kluwer Academic Publishers, p. 211-234.

1995. Earl, Richard A. and Troy Kimmel, "Means and Extremes: The Weather and Climate of South-Central Texas," *in A Geographic Glimpse of Central Texas and the Borderlands: Images and Encounters*. Indiana, PA: National Council for Geographic Education, Pathways in Geography, Title No. 12, p. 31-40.

1990. Earl, Richard A. "A Lesson in Hydrology," *in Whose Water is it Anyway? An Analysis of the Water Battle Between El Paso, Texas and New Mexico*. Las Cruces, NM: Arroyo Press, Ch. 2, p. 3-8. Not Refereed.

1983. Earl, Richard A. "Paleohydrology of Skunk Creek, central Arizona," *in Investigations of the Adobe Dam Project Area, Central Arizona*. Flagstaff, AZ: Museum of Northern Arizona, Research Paper 27, Appendix I, p. 165-231.

2. a. ARTICLES, Refereed Journal Articles

2019. Andrievskikh, Daria, Lopez, Christina, and Earl, R.A. Flood Awareness among College Students in Flash Flood Alley: A Case Study of Texas State University in San Marcos, Texas, USA. In press, *Papers in Applied Geography*.
2018. Earl, R.A., Bosarge, J., Wooten, H. Sherrouse, J., and Hedgepeth, S. Relationship of Flood Peaks to 24-Hour Rainfall in the eastern Texas Hill Country, South-Central Texas." *Geographical Bulletin* 59 (2): 87-102.
- 2018, DeHon, R.A. and Earl, R.A. "Reassessment of features in the Aden Crater lava flows, Doña Ana County, New Mexico." *New Mexico Geology* 40 (1): 17-26.
- 2015, Earl, R.A. and Vaughan, J. W. "Asymmetrical Response to Flood Hazards in South-Central Texas. *Papers in Applied Geography* 1 (4): 404-412.
2009. Earl, R.A. E.J. Montalvo, A.R. Ross, and E. Hefty. "Environmental Science Education Programs: Opportunities for Geographers." *Journal of Geography* 108: 259-268.
2008. Blanchard-Boehm, R.D., R.A. Earl, J.H. Wachter, and E.J. Hanford. "Communicating future water needs to an at-risk population: Lessons learned following defeat of the Applewhite Dam and Reservoir Project, San Antonio, Texas." *Population and Environment* 29:292-312.
2007. Earl, Richard A. "The October 1998 Flood: Upper Guadalupe River System, Central Texas." *Great Plains Research* 17: 3-16.
2005. Earl, Richard A. and Richard Dixon, "Reassessment of Storm and Flood Probabilities in South-Central Texas." *Physical Geography* 26: 365-378.
2003. Paul B. Nagel and Richard A. Earl, "Bringing the Ocean into the Social Studies Classroom: What can Oceanography do for 6-12th Grade Social Studies?" *The Social Studies* 94:257-264.
2002. Earl, Richard A. and Charles R. Wood, "Upstream Changes and Downstream Effects of the San Marcos River." *Texas Journal of Science* 54 (1):69-88.
1996. Earl, Richard A. and Dallas L. Bash, "Response of *Juniperus depeanna* to Historic Environmental Change in South-Central New Mexico." *The Southwestern Naturalist* 41(3):227-238.
1996. Earl, Richard A. and Robert J. Czerniak, "Sunbelt Water War: The El Paso-New Mexico Water Conflict." *The Social Science Journal* 33:359-379.

2. a. ARTICLES, Refereed Journal Articles, cont

1991. Earl, Richard A. and Steve Pasternack. "The Role of Television Weathercasts in Geographic Education." *The Journal of Geography* 90:113-117.

1990. Pasternack, Steve and Richard A. Earl, "Weathercasting on the Evening News: An Overview from a National Survey." *Southwestern Mass Communications Journal* 6:34-39.

3 a. Refereed Conference Proceedings

2014, Earl, R.A., Jordan, T. R., and Scanes, D.M. "Halloween 2013: Another '100-Year' Storm and Flood in South Central Texas." *Papers of the Applied Geography Conferences* 37: 270-278.

2014. Adams, W.G., Blanchard, R.D., and Earl, R.A. "Edwards Aquifer Region Stakeholders Frame Analysis. *Papers of the Applied Geography Conferences* 37: 332-341.

2013. Earl, R.A, Parr, D.M , and Wilcut, E. . "The Edwards Aquifer and Changes in the San Antonio, Texas Water Supply, 1993-2013." *Papers of the Applied Geography Conferences* 36: 299-308.

2012. Earl, R.A, and Flatten, C. "Flooding Downstream of Flood Control Dams in San Marcos, TX." *Papers of the Applied Geography Conferences* 35: 437-444.

2011. Earl, R.A., Bach, J.P. and Owen, A. M. "Conjunctive Ranch Management: An Option for Preserving Open Space Along the Urban Fringe." *Papers of the Applied Geography Conferences* 34: 290-297.

2010. Earl, R.A., Adams, W.G., and Naber, A.N. "Wood Resources of the Eastern Texas Hill Country. *Papers of the Applied Geography Conferences* 33: 290-297.

2009. Earl, R.A., T.M. Noah, and J.D. Argbogast. "Sediment Management and the San Marcos River. *Proceedings and Papers of the Applied Geography Conferences* 32: 226-232.

2008. Schoppe, K. A. and R.A. Earl. "Effectiveness of Landscape Water Conservation Options for Kyle, Texas. *Proceedings and Papers of the Applied Geography Conferences* 31: 292-300.

2006. Earl, Richard A., Richard W. Dixon, and C. Andrew Day. "Long Term Precipitation and Water Supply Variability in South-Central Texas." *Proceedings and Papers of the Applied Geography Conferences* 29: 11-22.

3 a. Refereed Conference Proceedings, cont.

2005. Earl, Richard A., Jeffrey Mitchell, and Lance English, "Designing an Evaporation Pond for a Fleet Carwash." *Proceedings and Papers of the Applied Geography Conferences* 28: 28-35.

2003. Earl, Richard A, Rachel D. Benke and Kristy Knaupp, "Analysis of the July 2002 Flood at the Canyon Dam Spillway, Guadalupe River, South-Central TX." *Proceedings and Papers of the Applied Geography Conferences* 26:371-379.

1994. Earl, Richard A. and John A. Harrington, Jr. "Relationship of Rio Grande Headwaters Precipitation and Discharge to Southern Oscillation Index." *Proceedings and Papers of the Applied Geography Conferences* 17:16-24.

5. REPORTS. Refereed Technical Reports

2003. "Technical Report Addressing Issues related to the Issuance of General Permits for Small Domestic Wastewater Facilities in Texas." Technical Report WQD-002, Texas Commission on Environmental Quality. 129 p. Co-author.

1989. *Geomorphology of the Fillmore Gap Archeological Site, South Central New Mexico*. El Paso Texas: U.S. Army Air Defense and Artillery Center, Fort Bliss Environment Office. 23 p. Lead author.

1988. "Surficial Geology and Environmental Overview of Site 41EP2611, El Paso Southeast Cultural Resource Assessment," *in Class III Survey and Testing of Cultural Resources in Proposed Flood Control System Right-of-Way, Southeastern El Paso, El Paso, County, Texas*. Albuquerque, NM: Mariah and Associates, Inc, p. D-1-D-22. Co-Author with James L. Jordan.

1988. K.E. Kunkel, N.R. Malm, and R.A. Earl, *Climate Guide, Las Cruces, 1851-1987*. Las Cruces, NM: New Mexico Agricultural Experiment Station, Research Report 623, 32 p.

1987. "Environmental Setting and Geomorphology of the NAHO Santa Teresa, New Mexico Archeological Site," *in Excavations on the Navaho-Hopi Land Exchange near Santa Teresa, New Mexico*. Albuquerque, NM: University of New Mexico, Office of Contract Archeology. Author.

4. REPORTS, Technical Reports—non-refereed

2014. *An Assessment of the October 31, 2013 Flood at the Carey Ranch, Canyon Lake, TX*. San Marcos, TX: The Meadows Center for Water and the Environment, Texas State University. 10 p. Co-author with Harrison Flores-Ortiz.

4. REPORTS, Technical Reports—non-refereed

2004. *A Design for an Evaporation Pond for Effluent Produced by the Gary Job Corps Car Wash, San Marcos, Texas.* San Marcos, TX: Gary Job Corps, 93 p. Lead author.

1985. *Locating Gravel Quarries in Doña Ana County, New Mexico.* Las Cruces, NM: Doña Ana County Road Department, 52 p. Sole author.

6. Published Book Reviews

2005. "Latitude and the Magnetic Earth by Stephen Pumfrey." *The Geographical Bulletin* 47: 60-61.

2005. "River Channel Management: Towards Sustainable Catchment Hydrosystems by Peter W. Downs and Kenneth J. Gregory." *Journal of Geography* 104: 138-139.

2004. "Why Geography Matters: Three Challenges facing America: Climate Change, the Rise of China and Global Terrorism by Harm de Blij." *Research in Geographic Education* 6: 62-65.

2001. "Quaternary Environments: Second Edition," by Martin Williams et al." *Geomorphology* 36:260-261.

2000. "The Desert Grassland, edited by Michael P. McClaran and Thomas R. Van Devender." *Southwestern American Literature* 23(2):83-84.

1996. "Texas Weather: Second Edition, Revised by George W. Bomar." *Southwestern American Literature* 21(2):126-129.

1990. "Arid Zone Geomorphology by D.S.G. Thomas." *Earth Surface Processes and Landforms* 15:761-762.

1982. "From Fire to Flood: Historic Human Destruction of Sonoran Desert Riverine Oases by H.F. Dobyns." *Latin America in Books* 5(2):4

7. Other Publications: Field Trip Guides

Earl, Richard A., Harrison-Flores-Ortiz, and Thomas Shelton. 2015. "Field Trip Road Guide: Texas Gulf Coast: Port Aransas and Corpus Christi/Padre Island National Seashore." 12p.

Earl, Richard A. and Donald J. Huebner. 2010. "Enchanted Rock State Natural Area." Grosvenor Center for Geographic Education Summer Workshop, May 2010. 20p.

7. Other Publications: Field Trip Guides, cont.

Earl, Richard A., Donald J. Huebner, and Johanna Ostling. 2009. "West to East Along the South Rim of the Grand Canyon." Annual Meeting of the Association of American Geographers, April 2009, Las Vegas, NV. 9p.

Earl, Richard A. and Hanna Ward. 2009. "An Opening to the Texas Hill Country," March 2009. Texas Geography Students Research Symposium, Annual Conference. 15 p.

Earl, Richard A. and Donald J. Huebner. 2008. "Culture Groups of the Texas Hill Country," October 2008. Southwest Division of the Association of American Geographer, Annual Meeting, San Marcos, TX. 22 p.

Earl, Richard A. and James F. Petersen. 2008. "Del Rio and Acuna," June 2008. Texas Alliance for Geographic Education, Summer Workshop, San Marcos, TX,

"Barranca de Caliza Field Trip Guide," May 2003. Grosvenor Center for Geographic Education, San Marcos, TX. Lead Author.

III. C. GRANTS AND CONTRACTS

1. Funded External Grants

2007. "Project Flowing Waters, GK-12 Program." \$2,300,000 from the National Science Foundation. Co-PI.

2003. "Texas Pollution Discharge Elimination System General Permit Research." \$116,235 from the Texas Commission on Environmental Quality. Co-PI.

1999-2005. "Texas Watch Program." \$140,000-\$400,000/year from the Texas Natural Resource Conservation Commission/Texas Commission on Environmental Quality. Co-PI.

1990, 1989, 1988, "Climate Validation Project." \$5,000/year from Western Region Climate Center. PI.

1988. "Paleo Environment of the Fillmore Gap Archeological Site." \$750 from the Ft. Bliss Environmental Office. PI.

1987. "An Analysis of the El Paso Water Suit." \$8,300 from the New Mexico Water Resources Research Institute. Co-PI.

1986. "Eolian Geomorphology and Environmental Overview of the Santa Teresa NAHO Archeological Site." \$700 from the University of New Mexico Office of Contract Archeology. PI.

1. Funded External Grants, cont.

1985. "New Mexico Water Atlas." \$15,000 from the Frost Foundation. Co-PI.

1984. "Locating Gravel Quarries in Doña Ana County, New Mexico." \$6,000 from the Doña Ana County Road Department. PI.

1980. "Paleohydrology and Paleoenvironment of the Adobe Dam, AZ Archeological Site." \$5,000 from the Museum of Northern Arizona. R.A.

3. Funded Internal Grants and Contracts

2003. "A Methodological Approach for the Assessment of Extreme Precipitation Potentials: A Case Study in South-Central Texas" \$15,364 Faculty Enhancement Grant. Co-PI.

2003. "Living in Flood Alley: Lessons to Learn." \$10,000 from the International Institute for Sustainable Water Resources. PI., Program Director.

1998 "A Network-Based Model for Water Availability and Water Rights Management of Texas Rivers." \$10,588 from the SWT Office of Research and Sponsored Program, Faculty Research Enhancement Grant. Co-PI with Benjamin Zhan.

1998. "Rainfall-Streamflow Relationships at Freeman Ranch." \$4,700 from the Freeman Ranch Advisory Committee. PI.

1992. "Library Reference Materials on Water Resources Management," \$250 from SWTSU. Co-PI with Terry Tilton.

1984. Geomorphic Reconnaissance of the Rio Grande Terraces near Las Cruces, New Mexico," \$1,561 from the NMSU Arts and Sciences Research Center. PI.

IV. SERVICE

A. University

Member, Academic Program Review Team—internal member, Texas State Bachelors of General Studies Program. 2015.

Member, Academic Program Review Team—internal member, Texas State Department of Agriculture. 2013.

Co-Chair, Texas State University Earth Day in Dallas Exhibit, 2012.

Co-Chair, University Common Experience for 2010-2011

Member, University Presidential Awards for Service Selection Committee, 2010, 2011, 2012.

A. University, cont.

Organizer, Ad Hoc Committee, Sustainability Common Experience Proposal Committee, 2008-2009

Member, University Scholarship Selection Committee, 2008

Member, Freeman Ranch Research Advisory Committee, 2006-present.

Member, University Study Abroad Committee, 2005-present.

Member, Liberal Arts Study Abroad Committee, 2001-present.

Member, Dept. of Agriculture, Dept. Chair Search Committee, 2005-2006.

Member, Freeman Ranch Operations Committee, 2003-2007.

Member, University Landscaping Committee, 2003-2006.

Member, Selection Committee, Presidential Award for Excellence in Teaching, 2002.

Faculty Advisor, Texas Watch Water Quality Program, 1999-2006.

Member, University Suspension Appeals Committee, 1999-2001.

Member, Freeman Ranch Advisory Committee, 1998-2001.

Faculty Senate Department Liaison, 1996-1997, 2000-2004.

Member, SWT Opening of the Semester Team, 1996-2000.

Member, Drought Management Team, 1996-2000.

Geography Liaison, Sierra Club State Meeting, Aquarena Springs, 1996.

Member, SWT Shuttle Bus Committee, 1992-1993.

Graduate Faculty: 1992-present (SWT-Texas State).

Member, New Mexico State University Recycling Committee, 1989-1990.

Chair, Arts and Sciences-NMSU Teacher Education Curriculum Committee, 1987-1989.

Member, Arts and Sciences-NMSU Planning Committee, 1987-1989.

B. Department

Organizer and Leader, "Launching your Professional Career Workshop," annual Dept. of Geography Alumni Reunion and Student Celebration, 1997-present.

Member, Evaluation Committee, 2007-2010.

Member, Annual Personnel Committee Annual Report Committee, 2007, 2008, 2009, 2010, 2012, 2014, 2015, 2017.

Undergraduate Programs Coordinator 2005-2016.

Member, and Chair (1994-1997) Scholarship and Awards Committee, 1994-2014.

Member, Scheduling Committee, 1995-1998.

Member, Faculty Search Committees, 1995-present.

Faculty Sponsor, Gamma Theta Upsilon, Geography Honor Society, 1993-2016.

Member, By-Laws Committee, 1994-1995.

Member, Curriculum Committee, 1992-1994.

Coordinator, Geography Program, Department of Earth Sciences, NMSU, 1985-1990.

Faculty Sponsor, Geographers and Planners Club, NMSU, 1983-1990.

C. Community

Member, Greater San Marcos Chamber of Commerce, Natural Resources Committee, 2010-2013

Member, Technical Advisory Committee, Hill Country Alliance, 2007-present.

Member, Flood Advisory Committee, City of San Marcos, 2005-2007.

Member and co-chair, Board of Directors, Upper San Marcos Watershed, Conservation, and Flood Control District, 2003-present.

Member, Board of Directors, Campus Christian Community/United Campus Ministry-Wesley, 2003-present.

Member, Canyon Lake Gorge Science Committee, Guadalupe-Blanco River Authority, 2003-2007.

Member, Parks and Recreation Department Advisory Board, City of San Marcos, 1996-1998 (moved outside city limits, had to resign).

Member, Edwards Underground Water District, Education Advisory Committee, 1992-1995.

Member, and Chair of the Natural and Social Resources Sub-Committee, San Marcos Horizons Master Plan Committee, 1994-1995.

Member, City of Las Cruces, NM Environmental Task Force, 1989-1990.

D. Professional

Local Arrangements Co-Chair and Field Trip Leader. Joint Annual Meeting of the Applied Geography Conference and Southwest Division of the Association of American Geographers, November 2015.

Field Trip Organizer and Co-Leader: "Culture Groups of the Texas Hill Country." Annual Meeting of the National Council for Geographic Education, October 2012.

Member, Scholarship Committee, Water Resources Specialty Group, Association of American Geographers. 2011-present.

Member, Board of Directors of the Applied Geography Conferences, 2010-present

Field Trip Organizer and Leader: "West to East Along the South Rim of the Grand Canyon." Annual Meeting of the Association of American Geographers, 2009.

Chair of Scholarship Committee: Association of American Geographers, Water Resources Specialty Group, 2008-2009.

Manuscript Reviewer, *Papers of the Applied Geography Conferences* 2008, 2009, 2010, 2011, 2012, 2013, 2014.

Program Reviewer: Association of American Geographers, "On-Line Center for Global Geography Education, Water Resources Unit," 2008.

Field Trip Organizer and Leader: "Culture Groups of the Texas Hill Country." Annual Meeting of the Southwest Division of the Association of American Geographers, 2008.

Field Trip Organizer and Leader: "A Taste of the Texas Hill Country." Race, Ethnicity and Place Conference, 2006.

Manuscript Reviewer: *Southwestern Geographer*, 2006.

Manuscript Reviewer: *Geographical Bulletin*, 2006, 2010, 2013.

D. Professional, cont.

Manuscript Reviewer: *Geography in Higher Education*, 2004.
Field Trip Organizer and Leader: "Barranca de Caliza". Geo-Summit, International Symposium on Teaching and Learning in Geography, 2003.
Chair, Scholarship Committee, Water Resources Specialty Group, Association of American Geographers, 2001-2003.
Manuscript Reviewer: *Geomorphology*, 2001.
Local Arrangements Committee, Southwest Division, Association of American Geographers, Annual Meeting, San Marcos, TX, October 1999.
Manuscript Reviewer: *The Journal of Geography*, 2005, 1998, 1995, 1994, 1992.
Director, Water Resources Specialty Group, Association of American Geographers, 1997-2000.
Executive Committee Member and Alumni Chapter Chair, Gamma Theta Upsilon, International Geography Honor Society, 1996-2016.
Local Arrangements Committee, Association of American Geographers Annual Meeting, Fort Worth, TX, April 1997.
Faculty Facilitator, Summer Teacher Institutes, Texas Alliance for Geographic Education, 1996, 1995, 1994, 1993, 1992.
Judge, National Geography Bee, sponsored by the National Geographic Society, annually 1994-2000.
Local Arrangements Committee, Director of Student Workers, National Council for Geographic Education, Annual Meeting, San Antonio, TX, October 1995.
Proposal Reviewer, National Science Foundation, 1995, 1997, 1999, 2000, 2002.
Judge, Geo-Bowl-5th grade geography contest, San Marcos, TX, 1995, 1994, 1993.
Manuscript Reviewer: *Annals of the Association of American Geographers*, 1991, 1997, 2002..
Manuscript Reviewer: *The Journal of Cultural Geography*, 1990.

Local Arrangements Committee, Field Trip Co-Organizer and Leader, "Casino to Canyon--Las Vegas, NV, Grand Canyon, Oak Creek Canyon," Association of American Geographers, Annual Meeting, Phoenix, AZ, April 1987.
Geography and Geology Section Co-Organizer, Arizona-Nevada Academy of Science, Annual Meeting, Tempe AZ, March 1984.

E. Scholarship Development Contributions

Co-Established and funding toward endowment, Dept. of Geography Military Veteran Geography Award for Excellence, 2014-present.

Co-Established and funded beyond endowment status, Dept. of Theater and Dance, Karen M. Earl Memorial Scholarship, 2004—present.

Established and funded beyond endowment status, Dept. of Geography Joe and Jerry Moore Scholarship in Water Resources, 1997-present.

V. PRE-PROFESSIONAL ACCOMPLISHMENTS

Journeyman Paperhandler, *Los Angeles Times* newspaper, 1969-1976.

White Sands Missile Range Soldier of the Month, Soldier of the Quarter, 1968.

Honorable Discharge from the United States Army for active duty service 1966-1968 (draftee), Specialist E-5, Hawk Guided Missile technician (MOS 22K20).

Ephebian Society membership award from Los Angeles Unified School District based upon scholarship, leadership and service, 1964.

Boys League President (Boys Vice President) San Pedro, CA High School, 1964.

Co-Captain, Varsity Cross Country Team, San Pedro, CA, High School, 1963.