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GENERAL INFORMATION

Place of Birth: Los Angeles, California
Date of Birth: May 2, 1940

EDUCATION

University of California, Los Angeles, Ph.D. in Geography 1968
Oregon State University, Corvallis
M.S. in Natural Resources, Water Resources-Oceanography Minor, 1964
B.S. in Natural Resources, 1962

PROFESSIONAL EXPERIENCES

2000-present	Professor Emeritus, University of Texas at El Paso
1978 - 2000	Professor of Geological Sciences, University of Texas at El Paso
1972	Associate Professor, University of Texas at El Paso
1969	Assistant Professor, University of Texas at El Paso
1968-69	Lecturer, Dept. of Geography, University of Malawi, Limbe, Malawi (Africa)
1967-68	Assistant Professor, Dept. of Geography, California State University at Northridge
1964	Instructor, Dept. of Geography, Western Oregon University, Monmouth, (Spring term)
1962-64	Teaching Assistant, Dept. of Natural Resources, Oregon State University, Corvallis

PUBLICATIONS

"Cattle in Malawi's Southern Region", The Society of Malawi Journal, Vol. XXII, No. 2, July 1969, pp. 1-16.
"Some Comments on Geographical Aspects of African Land-Locked States", Annals of the Association of American Geographers, Vol. 59, No. 4, December 1969, p. 820.
"The Chileka Dairy Farmer", The Society of Malawi Journal, Vol. XXIII, January 1970, pp. 1-9.
"CETENAP" The Professional Geographer, Vol. XXIII, No. 2, April 1971, pp. 163-164.
"The Rural Dairy Industry of Blantyre-Limbe, Malawi", The Rocky Mountain Social Science Journal, (now the Social Science Journal), Vol. 8, No. 2, October 1971, pp. 33-45.
"Wildlife and Modern-Designed Highways", Ecumene, Vol. IV, No. 1, February 1972, pp. 5-12.
"Some Geographical Data for the Sierra de Juarez Area", The Stratigraphy and Structure of the Sierra de Juarez, Chihuahua, Mexico, Earl M.P. Lovejoy ed., El Paso Geological Society Guidebook, Sixth Annual Field Trip, April 1972, pp. 32-37.

PUBLICATIONS (continued)

- "External Trade", Malawi in Maps, in S. Agnew and M. Stubbs (eds.), University of London Press Ltd., 1972, pp. 132-133 and 142, also published by Africana Publishing, N.Y. 1972.
- "Cattle Distribution, Marketing and Development", Malawi in Maps, in S. Agnew and M. Stubbs (eds.), University of London Press Ltd., 1972, pp. 90-91, also published by African Publishing, N.Y., 1972.
- "A Geographical Survey of Chihuahua" University of Texas at El Paso: Texas Western Press, Southwestern Studies Monograph, No. 27, March 1973, 63 pp.
- "Land Use in the Desert Zone of Chihuahua", Summary-Abstract for the Deserts and Arid Lands central theme of the first inter-American meeting Science and Man in the Americas. Organized by Consejo Nacional de Ciencia y Tecnologia and the American Association for the Advancement of Science, Mexico, D.F., June 1973 pp. 79-80
- "The Climate of Chihuahua, Mexico", University of Arizona, Institute of Atmospheric Physics, Technical Reports on the Meteorology and Climatology of Arid Regions, No. 23, April 1975, 50 pp.
- "Agricultural Development in Sinaloa, Mexico", Journal of the Arizona Academy of Science, 1975 Proceedings Supplement, Vol. 10, April 1975, pp. 34-35.
- _____, & Thorpe A. Mayes III, "Spatial Morphology and Development of the El Paso del Norte Area: A Preliminary Treatise" Franklin Mountains Symposium, David V. LeMone & Earl M.P. Lovejoy eds. El Paso Geological Society, April 1976, pp. 229-244.
- "A Geographical Survey of Sinaloa", University of Texas at El Paso: Texas Western Press, Southwestern Studies Monograph, No. 50, September 1976, 77 p.
- "The Physical Geography of the Sierra Tarahumara" a chapter in the book entitled "Sierra Tarahumara" to be published by the Fondo de Cultura Economica, Mexico (accepted July 1975). Received a stipend and expenses. Change in government, but published in a rewritten form without acknowledgement by a private source.
- "Some Economic Characteristics of the Border Region", The El Paso Economic Review, Bureau of Business and Economic Research, University of Texas at El Paso, Vol. XIII, No. 8, October 1976, pp. 1-4.
- "Physical and Economic Characteristics of the Border Region", Summaries of the International Conference of Latin Americanist Geographers, Paipa, Colombia, 1977, pp. 76-77.
- "Climatological Data for the State of Sinaloa, Mexico", Arizona State University, Laboratory of Climatology for the State of Arizona Climatological Publications, Mexican Climatology Series, No. 1, March 1978, 164 pp.
- "The Climate of the Sinaloa, Mexico", Arizona State University, Laboratory of Climatology for the State of Arizona, Climatological Publications, Mexican Climatology Series, No 2, 1978, 35 pp.
- "Sierra Tarahumara: Barrancas del Cobre", a 3 color map-guide for serious travelers; assisted by Don Burgess (lecturer in Anthropology, U.T. El Paso), scale 1:560,000. First accurate locator map of this area of the Sierra Madre Occidental, Mexico. Includes vocabulary in Raramuri and Spanish, correct spelling and stabilization of placenames, climatic information, etc. First printing July 1978.
- "A Climatic Delineation of the 'Real' Chihuahuan Desert", Journal of Arid Environments, 2 (3), Sept. 1979, pp. 243-250. In first 6 mo. ± > 160 request for reprints (excluding distribution at professional meetings, etc.). Article and maps used in numerous publications both popular and academic, and translated into Spanish. Used for class readings eg required at U. of Texas, Austin in Geography printed by Alpha Graphics with permission.
- "Literature and Data Sources for the Study of Weather and Climate in the Arid Zones of Mexico" Conference of Latin Americanist Geographers, Pre-Conference Proceedings for the 10th Anniversary Conference, April 1980, pp. 41-60.
- "Freeway Impact on Agricultural Areas", Natural Resources Journal, Vol. 20, July 1980, p. 487-602.

PUBLICATIONS (continued)

- Lloyd, William J., and _____, "Land Use in the Basin and Range Topography of Trans-Pecos Texas", New Mexico Geological Society Guidebook, Dickerson and Hoffer, eds., 31st Field Conference, Trans-Pecos Region, 1980, pp. 305-310.
- "Literature and Data Sources for the Study of Weather and Climate in the Arid Zones of Mexico", Geographic Research on Latin America: Benchmark 1980 Conference of Latin Americanist Geographers, (Tom L. Martinson and G.S. Elbow, eds.), Vol. 8, 1981, pp. 312-322.
- Marston, Richard A., and _____, "Geomorphic Parameters of Los Medanos de Samalayuca, Chihuahua", Geology of the Border: Southern New Mexico-Northern Chihuahua, Jerry M. Hoffer & R.L. Hoffer eds., El Paso Geological Society, April 1981, pp. 22-25.
- Compiled and published "Abstracts of Papers" presented in the geography section of the Western Social Science Assoc., 23rd Annual Conference April 23-25, 1981, San Diego Calif., 17 pp.
- _____, and R.A. Marston, "Los Medanos de Samalayuca, Chihuahua, Mexico", New Mexico Journal of Science, Vol. 21, No 2, Dec. 1981, pp. 21-27.
- Four original wall maps of the Tamaulipian Biotic Province for the John E. Conner Museum at Texas A & M: scale, 1:500,000. In addition to maps of topographic and cultural features, the isothermal and isohyetal maps are based upon data from 254 weather stations in Texas and adjacent states of Mexico, 1981-1982.
- Invited position paper summarized and published at the Reunion Sobre la Problematica Agropecuaria y Forestal de las Zonas Aridas y Semi-Aridas de Mexico", in the section entitled: "Problemas y Potenciales de las Zonas Aridas y Semi Aridas de Mexico", Saltillo, Coahuila, Sept. 1981.
- Book Review of F.L. Leistritz and S.H. Murdock's, "The Socioeconomic Impact of Resource Development: Methods for Assessment", Westview Press, Social Assessment Series, No. 7, Boulder CO, 286 pp., in the Natural Resources Journal, Vol. 22, No. 1, Jan. 1982. pp. 270-271.
- "Climas de Mexico", Two original maps based upon E. Garcia's (Instituto de Geografia, UNAM, 1970 (33 maps; 1:500,000) modification of Koppen's climatic classification scales: 1:2 mil and others at smaller scale, 1982.
- "Climate", Borderlands Sourcebook: A guide to the Literature on Northern Mexico and the American Southwest, Ellwyn R. Stoddard, R.L. Nostrand, and J.P. West, eds., Norman: Univ. Oklahoma Press, Chapter 20, 1983, pp. 94-97.
- , and Enrique Campos-Lopez. "Optimizing Climatic and Renewable Resources in Mexico's Arid and Semiarid Zones", Univ. Texas, El Paso: Center for Inter-American and Border Studies, Series on Border Issues and Public Policy, No. 6, March 1983, 9 pp.
- "Climate and the Chihuahuan Desert", Chapter 4 in Natural Resources and Development in Arid Regions. Enrique Campos-Lopez and Robert J. Anderson, eds., Westview Press, Boulder, CO: 1983, pp. 35-52.
- "Clima y Desierto Chihuahuense", Desierto y Ciencia, CIQA, Mexico, Vol. 4, No. 4, Feb. 1983, pp. 38-45, in color.
- "The Waterfall of Basaseachi, Mexico", Geology and Mineral Resources of North-Central Chihuahua: Guidebook for the 1983 Field Conference, El Paso Geological Society. K.F. Clark and P.C. Goodell (eds.) Oct. 7-9, 1983 pp. 411-415.
- , and Richard A. Marston, "The Samalayuca Dune Field", Geology and Mineral Resources of North-Central Chihuahua: Guidebook for the 1983 Field Conference, El Paso Geological Society, K.F. Clark and P.C. Goodell (eds.), Oct. 7-9, 1983, pp. 416-423.

PUBLICATIONS (continued)

- Opening session paper presentation entitled "Medio Ambiente y Desarrollo" (Environment and Development) 7 pp. presented and distributed, and also expanded outline of "Planteo de un Impacto Medio Ambiental" (Formulation of an environmental impact statement, 3 pp.), Oficina Nacional de Evaluacion de Recursos, Environmental Research of Institute of Michigan (ERIM) contractor, Lima, Peru, Nov. 1983.
- Compiled and published "Abstracts of Papers" presented in the Association Arid Lands Studies annual meeting held in conjunction with the WSSA annual meeting, San Diego, CA, April 1984.
- "Association for Arid Lands Studies", *The Professional Geographer: Reports on Major Conference*, Vol. 36, No. 4, Nov. 1984, p. 487.
- "Where is the Chihuahuan Desert?", *Chihuahuan Desert Discovery*, Chihuahuan Desert Research Institute, No. 17, 1985, pp. 10-13.
- _____, and Thorpe A. Mayes, "The Traveler's Atlas to the Yucatan", An authoritative-type travel guide with text and 13 maps (color), International Map Co., El Paso, Texas, 1986, 16 pp.
- _____, and William J. Lloyd, "Patterns of Urban Growth in Ciudad Juarez", Chapter 2 in *The Social Ecology and Economic Development of Ciudad Juarez*, Gay Young (ed.): Westview Special Studies on Latin American and the Caribbean, Westview Press, Boulder, CO and London, 1986, pp.23-45.
- "Chihuahuan Climate", in *Resources of the Chihuahuan Desert Region: United States and Mexico*, Invited Papers for the Second Symposium, Oct. 1983, Chihuahuan Desert Research Institute, Allen Press, Kan., 1986, pp. 40-63.
- "The Canyon County of the Sierra Madre, Chihuahua, Mexico" and "The Physical Geography of Sinaloa": in *Stratigraphy, Tectonics and Resources of Parts of Sierra Madre Occidental Province, Mexico*. Guidebook for the 1988 Field Conference held in conjunction with the Annual Meeting of the S.W. Section of the Am. Assoc. of Petroleum Geologists (AAPG), El Paso Geological Society, K.F. Clark, P.C. Goodell, and J.M. Hoffer (eds.), pp. 363-367 & pp. 369-375.
- _____ and Rex E. Gerald, "The Distribution of Conservation-Type Water Control Systems in the Northern Sierra Madre Occidental", *The Kiva*, v. 53, no. 2, 1988, pp. 165-179 (in the special Mogollon volume).
- _____ "Chihuahua: Land of Physical Diversity" pp. 1-46 plus other reading material in the field guide "Sierra Tarahumara" for the PROFMEX/ANUJES field conference led by Jeffrey T. Brannon and R. Schmidt, Sept. 1988.
- "The Arid Zones of Mexico: Climatic Extremes and Conceptualization of the Sonoran Desert," *Journal of Arid Environments*, 16, 1989, pp. 241-256. In first 6 mo. ± > 140 request for reprints (excluding distribution at professional meetings, etc.) including those from 13 foreign countries on 5 continents, reprinted in *Memoria of the V Congreso Nacional de Meteorologia*, Oct. 1991, pp. 39-54.
- "The Mega-Chihuahuan Desert", Chihuahuan Desert Research Institute, Invited Papers for the Third Symposium on Resources of the Chihuahuan Desert Region (Nov. 1988). A.M. Powell, R.R. Hollander, J.C. Barlow, W.B. McGillivray, & D.J. Schmidly eds. Nov. 1990, pp 105-115.
- "Cascada de Basaseachi, Parque Nacional". A report for the project "The National Parks of Chihuahua, Mexico" funded by the Ministry of Urban Development and Ecology (SEDUE) of the Federal Government of Mexico through the Universidad Autonoma de Chihuahua (Chih., Mexico) 1990, 7 pp.
- Co-author with Donald Brand (deceased) on topic "Rio Grande" in the North America section for *Encyclopaedia Britannica*, 1991.

Publications (continued)

- "El Parque Nacional Cascada de Basaseachi", in *Geology and Mineral Resources of Northern Sierra Madre Occidental, Mexico*. Guidebook for the 1992 Field Conference of the El Paso Geological Society, Sept. 1992, pp 197-201.
- Geology and Mineral Resources of Northern Sierra Madre Occidental, Mexico*, Guidebook for the 1992 Field Conference, El Paso Geological Society, K.F. Clark, J. Roldan Quintana, & R.H. Schmidt, eds., Sept. 18-21, 1992.
- "Chihuahua, Tierra de Contrastes Geográficos", in *"Historia General de Chihuahua I: Geología, Geografía y Arqueología"*. Arturo Marquez-Alameda Vol. Coordinator, and Ruben Lau, Gen. Coordinator. Univ. Autonoma de Ciudad Juarez and Gobierno del Estado de Chihuahua. Pp. 45-101, 1992 (this is a part of a National Series).
- "Trazado de Mapas De Las Zonas Ecologicas en El Norte de Mexico y Texas", in *Encuentro Internacional Sobre Adaptaciones Culturales y Cambios Ecologicos en El Norte de Mexico y Texas, Pasado y Presente Memorias*. Archivo Municipal de Saltillo y Universidad de Texas En Austin, Saltillo, Coahuila. 1993, Pp 1-2.
- "The Significance of Mexico's Sierra Madre Occidental as Watershed", pp. 242-43; and "La Importancia de la Sierra Madre Occidental Como un Vertedero de Agua", pp. 243-44, in P.C. Goodell, Carlos Garcia G. and I. Reyes C. eds., in "Energy Resources of the Chihuahua Desert Region." Dept. of Geological Sciences, El Paso Geol. Soc., Center for InterAmerican and Border Studies, Research Consortium of the Chihuahuan Desert, and the Energy Center. UT El Paso, 1993.
- Sources of Precipitable Moisture in the Chihuahuan Desert: Possibilities for Improved Utilization of Rainfall*", *J. of Arid Land Resources and Environment, China*. vol. 7, no. 3, 4, pp. 219-222, 1993 Published in 1994.
- "Chihuahua Climate". *Chihuahuan Desert Discovery*, Winter/Spring 1994, no. 33, pp. 8-9. A condensed version of my paper of the same title published in the Second Symposium on "Resources of the Chihuahuan Desert Region: United States and Mexico", Chihuahuan Desert Research Institute, Alpine, Texas 1986.
- "Under Siege: Deforestation of the Sierra Madre Could Have Far-Reaching Effects" in "Twin Plant News: The Magazine of the Maquiladora and Mexican Industries", May 1994, pp. 31-32.
- "Tropical Storms as a Source of Precipitable Moisture for Interior China", in "Rational Utilization of Natural Resources and Territorial Management of Arid Lands." Arid Land Committee, China Society of Natural Resources, United Nations Environmental Program, 1995. pp. 154-158. Summary in Chinese p. 159.
- "The Climate of Trans Pecos Texas", in "The Changing Climate of Texas: Predictability and Implications for the Future", edited by Jim Norwine, John R. Giardino, Gerald R. North, and Juan B. Valdez. GeoBooks, Texas A & M University, College Station. TX. 1995, Chapter 11, pp. 122-137.
- "Trans-Pecos, Texas", in the "New Handbook of Texas", R. Tyler, Editor in Chief, Texas State Historical Association and Center for Studies in Texas Historical Association and Center for Studies in Texas History, U.T. Austin, Vol. 6, 1996, pp. 548-549.
- "Rio Grande" in the "North America" section for *Encyclopaedia Britannica*. Began in 1991 and reprinted with slight revisions in more recent editions.
- "Sierra Tarahumara: Barrancas del Cobre", International Map Co., El Paso, TX. A map-guide for the serious traveler. First ed. 1979, 12h revised ed., 1998. Completely revised Oct. 1994. More than 45,000 copies sold.

PUBLICATIONS (continued)

- Maps and Guide to the Chihuahua al Pacifico Railroad", International Map Co., El Paso, TX A map-guide for the serious traveler: 8 original maps & text. First printing 1987, 8th revision 1996. Completely revised Nov. 1995. More than 45,000 copies sold.
- "Climate, Hydrology, and Land Cover of the Rio Mayo Watershed" submitted through the S.W. Center of the Univ. of Arizona and Arizona-Sonoran Desert Museum. They will edit/review for consistency and pay page cost and submit. 26 pp.
- "The Sierra Madre Occidental of Mexico: The Physical Geography". A book (c. 280 pp) in final preparation.
- "Water Resources of FarWest Texas: El Paso-Cd. Juarez".; accepted: Texas A&M Press, 25 p.
- "Climate, Hydrology, and Land Cover of the Rio Mayo Watershed"; submitted and being reviewed; 26 p.
- "Rio Conchos: Climate, Hydrology, and Watershed Assessment"; near completion
- "The Sierra Madre Occidental of Mexico: The Physical Geography"; in final preparation; 280 p.

RESEARCH AND GRANTS RECEIVED

- 1968-69 Received a grant from the University of Malawi to study the cattle and dairy industry of that country in cooperation with the Department of Veterinary Services and Animal Industries, the Department of Agriculture and a United Nations Development Project; \$1100 plus substantial field work and student support, lab analyses, etc. Over 750 dairy farmers contacted and mapped.
- 1969-70 Received a grant from the University Research Committee (U.T. El Paso) to complete the study of the rural dairy industry; \$250
- 1970-71 Received a University Research Committee (U.T. El Paso) grant for a geographical survey of Chihuahua; \$1,750
- 1971 Recipient of Alumni Fund for Excellence gift (U.T. El Paso) for taking aerial false-color infrared photographs of northern Chihuahua and the El Paso area; \$700.
- 1971-72 Received a grant from the University Research Committee (U.T. El Paso) to study the climate of Chihuahua; \$750.
- 1972-73 Special Allocation, Computer Center (U.T. El Paso) for analysis of climatic data; \$2,000.
- 1973-74 Received a University Research Committee grant (U. T. El Paso) for a geographical survey of Sinaloa; \$1,700.
- 1974-76 Co-investigator for border studies, funded by the Russell Sage Foundation, the Weatherhead Foundation, and the University Research Institute (U.T. El Paso). Director: J. Rivera.
- 1975-76 Received a grant from the University Research Committee (U.T. El Paso) to study climate and land use of the Chihuahuan Desert; \$2,700.
- 1976-77 Co-investigator for study entitled: "Tension Management in Labor Exchange and Transportation. The El Paso-Juarez Urbanization Case," funded by the Rockefeller Foundation. Project Director: J. Rivera; \$25,000.
- 1977 Obtained 1140 LANDSAT computer-compatible tapes, and software, imagery, etc. from Johnson Space Center, Houston, Texas; used value; assessed vale \$6,700.
- 1978 Participated in a two-day "Remote Sensing Workshop" sponsored by the Remote Sensing Committee of the Association of American Geographers, April 1978, New Orleans, Louisiana. Funded by U.T. El Paso; \$385.
- 1979 Recipient of a Faculty Development Grant from U.T. El Paso to attend a five-day short course on "Numerical Analysis of Remote Sensing Data" and participate in the "Hands-On"

- computer option, Laboratory for Applications of Remote Sensing (LARS), Purdue University, July; \$1,650.
- 1980 Recipient of a Faculty Development Grant from U.T. El Paso to work as a visiting scientist at the Office of Research and Applications Group National Environmental Satellite Service, Camp Springs, Maryland, August; \$1,100.
- 1981-83 Co-Principal investigator of a grant funded by CONACYT (the Mexican equivalent to NSF) for detailed analysis of the weather and climate of Chihuahua and relating climatological research to plants with economic potential. Collaborating with researchers at the Colegio de Graduados, Escuela Superior de Agricultura.: Hermanos Escobar (ESAHE), Dr. Fernando Rincon V. Project director, Cd. Juarez, Chihuahua; \$3 million pesos.
- 1981-83 Principal Investigator/task force leader for "Climate and Evaluation of Resources in the Chihuahuan Desert" for the project "Systems Analysis in Arid Zones" funded by the Research Center for Applied Chemistry (CIQA), Inter American Development Bank (IDB/BID), and the Consejo Nacional de Ciencia y Tecnologia (CONACYT), Saltillo, Coahuila, Mexico. Dr. E. Campos L., Coordinator of the entire project Summer funding for three years; \$63,500 plus substantial travel and assistance. Also procured funding for Wm. Reid, Systems Ecology, Wm. Lloyd, Computer Cartography and Murphy Voight, Computer Technician.

Research and Grants Received (continued)

- 1982 Recipient of a College of Science Faculty Teaching Improvement Grant from U.T. El Paso to gather information from NOAA; NESS, and AGRISTARS; NSF; Bureau of Oceans and International Environmental and Scientific Affairs, Dept. of State; and the Cartographic Division of the World Bank, Wash., D.C. area, June; \$800.
- 1983 Received research grant from the Center for Inter American and Border studies (CIABS), U.T. El Paso, for the study of the world's 20th highest waterfall at Basaseachi, Chihuahua, Mexico. (3 newspaper releases including UPI, a guidebook article, and a 3 min. T.V. presentation); \$435.
- 1983 Recipient with Wm. H. Reid, Systems Ecology, "Gradient Analysis of the Chihuahuan Desert", Mini Grant, U.T. El Paso; \$500.
- 1984 Received research grant from the Center for Inter-American and Border Studies (CIABS), U.T. El Paso to study the validity of the extremely high maximum temperatures recorded in Baja California Norte, March; \$735.
- 1984 Received travel funding for Dr. Enriqueta Garcia, Instituto de Geografia, Univ. Nac. Autonoma de Mexico lecture topic: "Applications of Climatic Data in Mexico", sponsored by the Center for Inter-American and Border Studies, and the Dept. of Geological Sciences, U.T. El Paso, March; \$250.
- 1984 Received travel funds from U.T. El Paso to participate as an associate faculty for the 12th Annual Interim Program in Yucatan, Mexico, Latin American Studies Program of the University of Alabama and U.T. El Paso, May 14-31; \$250.
- 1985 "Exploratory Research into the Sources of Precipitable Moisture as a Resource in Western China", Faculty Development Projects, U.T. El Paso; \$500.
- 1985 Potential Utilization of Environmental Satellite Imagery for Improving Rainfed Agriculture in Far Western China", Mini-grant Project; \$500.
- 1986-87 Received research grants from the University Research Institute (U.T. El Paso) and Center for Inter-American and Border Studies (CIABS) U.T. El Paso for "The Development of an

- Implementation Model of Commercial Production of Rubber from Guayule in the U.S./Mexico Border Region. D. James (Economics, Director); \$800.
- 1986 Received a stipend from the National Endowment for the Humanities: "The U.S. and Mexico Borderlands in Perspective".
- 1986-87 "Climate and Tourism in Mexico", The Center for Inter-American and Border Studies U.T. El Paso; \$525.
- 1987-88 "Physical and Environmental Constraints to Land Use Development in Mexico", Funded by the Center for Inter-American and Border Studies; \$320.
- 1988 Received funding from U.S. Embassy in Mexico for PROFMEX/ANUIES field trip to Sierra Madre Occidental for the annual meeting; \$500 plus all travel expenses.
- 1988 "Spatial Distribution of Pre-Columbia Rock Check Dams in the Northern Sierra Madre of Mexico Using Remote Sensing", Mini-Grant, U.T. El Paso; \$500.
- 1989 "Precipitable Moisture Derived from Tropical Revolving Storms in the Eastern Pacific Ocean", University Research Institute, U.T. El Paso; \$3,200.

Research and Grants Received (continued)

- 1989-90 "The National Parks of Chihuahua, Mexico", (Cascada de Basaseachi, and Cumbres de Majalca) funded by the Ministry of Urban Development and Ecology (SEDUE) of the Federal Government of Mexico through the Universidad Autonoma de Chihuahua (Chih., Mexico); travel and accommodations.
- 1989-90 Additional funding to support the above project by the Univ. Research Institute, Office of Sponsored Research, U.T. El Paso; \$1,500.
- 1990-91 "Science and Technology-Push Versus Demand-Pull Research: A Research Agenda for Fostering a Guayule-Based Rubber Industry in the Border Region", with D. James (Economics, Director), W.C. Johnson & V. Saravana. Funded by the Center for Inter-American and Border Studies, College of Bus. Admin., the College of Engineering, U.T. El Paso; \$3,000.
- 1993 Funding for travel and cartography associated with completion of my book manuscript on the Sierra Madre Occidental of Mexico from the Center for Inter-American and Border Studies; \$500.
- 1993-94 Member of the Science and Policy Technical Advisory Team for the project entitled "Proyecto de Recursos Naturales Tarahumara: A Community Network" Initial funding by the World Wildlife Fund Program/U.S.AID through Native Seeds/SEARCH and the Sonora Institute, Tucson, AZ.
- 1994 Draft proposal for the above submitted to the Biodiversity Support Program, U.S. AID administered by World Wildlife Fund.
- 1996 "Assessing Land Use and Land Use Changes, Affecting the Surface Hydrology of the Rio Conchos, Chihuahua, Mexico" NASA: Mission to Planet Earth, Summer Faculty Research Support through the Pan American Center for Earth and Environmental Studies, U.T. El Paso. Funded under NASA cooperative agreement NCCW-0089. One month's salary plus graduate student support; \$6,000 plus imagery and fieldwork.
- 1997 Assessment of Land-Use/Land-Cover Changes and Its Impact on the Rio Conchos Watershed of the Rio Grande System, Chihuahua, Mexico." This work supported in part by NASA under cooperative agreement NCCW-0089; \$12,586 plus imagery and fieldwork.
- 1998 "Land Cover/Land Use and the Watershed Significance of the Rio Mayo of Chihuahua and Sonora". This work supported in part by NASA/PACES under cooperative agreement NCCW-0089; \$5000.
- 1999 "Rio Conchos: Climate, Hydrology, and Watershed Assessment". NASA/PACES under cooperative agreement NCCW-0089; \$5000.
- 1999-2002 Sponsor (PI) and Committee Chair; U.S. Environmental Protection Agency; Fellowship for Graduate Environmental Study for Pedro Mula, PhD Candidate, "Remote Sensing Assessment of Land-Use/Land-Cover Changes in the Rio Conchos Watershed, Chihuahua, Mexico; \$74,048 incl. \$15,000 for field work and supplies.

ABSTRACTS

Field trip lecturer on "Farm, Farmer, and the Freeway in the Willamette Valley," Symposium on the: "Spatial Organization of Land-Use in the Willamette Valley," Oregon State University, May 1964.

"The Impact of Limited-Access Highways on Agricultural Land in California", Abstracts of Papers presented at the Southwestern and Rocky Mountain Division of the American Association for the Advancement of Science (A.A.A.S.) and the Arizona Academy of Science (A.A.S.), April 1971, p. 39.

- "Climatic Classification: Some Examples from Chihuahua", Proceedings of the Arizona Academy of Science, University of Arizona May 1973 p. 30.
- "A Preliminary Delineation of the Chihuahuan Desert", Proceedings of the 20th Annual Meeting of the Arizona Academy of Science and the Annual Meeting of the SWARM Division of the AAAS, 1976, Proceedings Supplement, Vol. 11, April 1976, p. 73.
- "The Samalayuca Sand Dune Area and Its Relation to the Physical Environment", Program Abstracts of the 74th Annual Meeting of the Association of American Geographers, April 1978, p. 112.
- "A Climatic Delineation of the 'Real' Chihuahuan Desert", Abstracts of Papers presented at the Annual Meeting of the Conference of Latin Americanist Geographers, Rohnert Park, California, June 1978, p. 7.
- Book Review of John Gribbin's "What's Wrong with our Weather? The Climatic Threat of the 21st Century", Charles Scribner's Sons, New York, 174 pp.; in the El Paso Herald Post, Nov. 3, 1979.
- "Spatial Aspects of International Urbanization: El Paso-Ciudad Juarez," Program Abstracts of the 75th Annual Meeting of the Association of American Geographers, April 1979 p. 168-169.
- "Son-Chih: The Sonoran-Chihuahuan Desert Connection", Abstracts of Papers for the Association for Arid Lands Studies and the 21st Annual Conference of the Western Social Science Association, April 1979, p. 123.
- "Weather and Climate of the Sierra Madre Occidental: The Sierra Tarahumara Region", Abstracts of Papers presented in the Geography Section of the 22nd Annual Meeting of the Western Social Science Association, April 1980, p. 13.
- "Climate and the Chihuahuan Desert", Resume, International Conference entitled "Natural Resources and regional Development: The Case of the Semi-Arid Zones", Centro de Investigacion en Quimica Aplicada, CONACYT, Cocoyoc, Morelos, Oct. 1980. p. 50.

ABSTRACTS (continued)

- "Sources of Significant Precipitation in the Chihuahuan Desert: A Preliminary Analysis", Abstracts of Papers for Geography, 23rd Annual Conference of the Western Social Science Association, 8981, p. 14. Also responsible for publishing "Abstracts of Papers", presented in the geography section 17 pp.
- Book Review of F.L. Leistritz and S.H. Murdock's, "The Socioeconomic Impact of Resource Development: Methods for Assessment", Westview Press, Social Assessment Series, No. 7, Boulder CO, 286 pp., in the Natural Resources Journal, Vol. 22, No. 1, Jan. 1982, pp. 270-271.
- "A Preliminary Climatological Analysis of the Sierra Tarahumara", Abstracts Of Papers presented in the Geography Section, 24th Annual Meeting Western Social Science Association, April 1982, p. 5-6.
- "Climate and Research Assessment in North-Central Mexico: The ASZA Project," Abstracts of papers, II International Reunion de CLAG, Conference of Latin Americanist Geographers and Seccion Nacional del Instituto Pan Americano de Geografia e Historia, Santo Domingo, Dominicana, Oct. 1982, p. 48.
- "Land Surface Forms in the Chihuahuan Desert: Perception and World Comparisons", with Richard A. Marston, Abstracts of papers for the Association for Arid Lands Studies meeting in conjunction with the 25th Annual meeting of the Western Social Science Association, Albuquerque, NM and Lubbock, TX: International Center for Arid and Semi-Arid Land Studies, Texas Tech University, April 1983, pp. 9-10.
- "Climate as a Resource in the Chihuahuan Desert", Abstracts, XI International Congress, Latin American Studies Association, Mexico, D.F., Sept. 29-Oct. 1, 1983, p. 74.
- "The Distribution of Trincheras in the Semi-Arid Highlands of Northern Mexico", Abstracts of Papers, Assoc. for Arid Lands Studies, International Center for Arid and Semi-Arid Land Studies, Texas Tech, p. 13, and in Abstracts of Papers for the Western Social Science Assoc. 27th Annual Meeting, Ft. Worth, TX, 1985, p. 31.
- "Tropical Revolving Storms: A Potential Resource for the Chihuahuan Desert", Abstracts of Papers, the Secretariat of Iseunraa, Xinjiang Branch, Academia Sinica, Urumqi, Xinjiang, China, No. 3, 1985.
- "A Climatic Delineation of the Baja Peninsula's Arid Zone", Abstracts of Papers, Assoc. for Arid Lands Studies, International Center for Arid and Semi-Arid Land Studies, Texas Tech University, p. 12, 1986.
- and R.E. Gerald, "The Distribution of Conservation-Type Water Control Systems in the Semiarid Northern Sierra Madre Occidental", 1986, Abstracts of Papers, Assoc. Arid Lands Studies Section, International Center for Arid and Semiarid Land Studies, Texas Tech Univ., p. 17, 1987.
- "A Climatic Delineation of Mexico's Sonoran Desert", Abstracts of Papers, Annual Meeting, Albuquerque, New Mexico, Assoc. for Arid Land Studies, International Center for Arid and Semiarid Land Studies, Texas Tech Univ. p. 14, 1989.
- Tropical Revolving Storms as a Source of Precipital Moisture for Mexico's Arid and Semiarid Zones", Memoria: IV Congreso Nacional de Meteorologia, Organizacion Mexicana de Meteorologos, A.C., Chihuahua, Chih., Oct. 1989. p. 261
- "The Significance of Mexico's Sierra Madre Occidental as a Watershed", Program and Abstracts, Southwest Division of the Assoc. of Am. Geographers, Austin, Texas, Oct. 1990, pp. 59-60.
- "Precipitation Characteristics of Mexico's Sierra Madre Occidental," 1991 Annual Meeting Abstracts, Assoc. of America Geographers, Miami, Florida, April 1991, p. 180.
- "The Waterfall at Basaseachi, Chihuahua, Mexico", Abstracts of Papers, Western Social Science Assoc., 33rd Annual Conference, Reno, Nevada, April 1991, p. 126.

ABSTRACTS (continued)

- "Eco-Tourism Potential in the Border States" by Thomas J. Wood and R.H.Schmidt, 4th U.S./Mexico Border Conference on Recreation, Parks and Wildlife, Cd. Chihuahua, Mexico, May 1991, no pagination.
- "Where is the 'Real' Sierra Madre Occidental of Mexico", Abstracts, Assoc. of Am. Geographers, San Diego, CA, April 1992, p. 215.
- "Bolson de Mapimi: A Geomorphological Definition Applied to a Cultural Concept." 1993. Abstracts. 16th Annual Meeting of the Assoc. of Arid Lands Studies, Corpus Christi, TX.
- "The Climate of Trans Pecos Texas". 1993. The Changing Climate of Texas: Predictability and Implications for the Future. Abstracts: Climate System Research Program, Texas A & M University, p. 9.
- "Tropical Storms as a Source of Precipitable Moisture for Interior China", Abstracts Arid Lands Section, 17th Annual Meeting of the Assoc. of Arid Lands Scholars, & Western Soc. Sci. Assoc. 36th annual conference, April 1994, Albuquerque, NM, p. 21.
- "Watershed Assessment of Mexico's Sierra Madre Occidental", and "Avaluacion de Fuente de Agua de la Sierra Madre Occidental en Mexico", in Memorias: Congreso Internacional de Geografos Latinoamericanistas. Tegucigalpa, Honduras. 3-6 Enero de 1996.
- "Land Use and Climatic Characteristics in the Rio Conchos Watershed of the Rio Grande system: A Preliminary Assessment" Abstracts for Assoc. for Arid Lands Studies. 20th Anniversary Meeting. Albuquerque, N.M. Farguhar Laboratory of Anthropology, U. of Redlands, CA and Int'l Center for Arid and Semiarid Land Studies, Texas Tech Univ., Lubbock, TX, April, 1997, p. 14.
- "A Preliminary Assessment of the Surface Hydrology and Land Use/Land Cover in the Rio Conchos Watershed of the Rio Grande System, Chihuahua, Mexico", in Resumenes: Espacios y Sociedades: Retos Ambientales Para El Siglo XXI. Congreso Internacional Geografos Latino Americanistas and Conf. of Latin Americanist Geographers, Arequipa, Peru, July 1997, pp. 121-22.

PAPER PRESENTATIONS, INVITED LECTURES, HONORS, AWARDS, ETC.

- One of four participants, "Round Table Discussions: Exploring Malawi's Upper Atmosphere." Radio program (~ hour), Malawi Broadcasting Corp. (M.B.C.), July 1969.
- Representative for the University of Texas at El Paso to the meeting of Texas Geographers, Southern Methodist University, Dallas, Texas, February 1970.
- Paper presentation, "The Rural Dairy Industry of Blantyre-Limbe, Malawi", The 12th Annual Meeting of the Rocky Mountain Social Science Association, Colorado Springs, Colorado, May 1970.
- Honarium lecture on "The Development and Structure of Geography." University of Texas, El Paso, February 1971.
- Paper presentation, "The Impact of Limited-Access Highways on Agricultural Land in California," Annual meeting of the Southwestern and Rocky Mountain Division of the A.A.A.S. and the Arizona Academy of Science, Arizona State University, April 1971.
- Paper presentation, "Climatic Classification: Some Examples from Chihuahua." The 17th Annual Meeting of the Arizona Academy of Science, University of Arizona, May 1973.
- Invited participant in the Desert and Arid Lands section of the first inter-American meeting "Science and Man in the Americas," organized by Consejo Nacional de Ciencia y Tecnologia and the American Association for the Advancement of Science, Mexico, D.F., June and July 1973.
- Paper presentation, "Precipitation in Chihuahua," meeting of the Southwestern Association of American Geographers, University of Texas, Austin, October 1972.

Paper Presentations, Invited Lectures, Honors, Awards, Etc (continued)

- Member of two-man lecture tour with Dr. R. Gomez, Dean, Graduate School (U.T. El Paso) for the U.S. Information Service to El Salvador and Guatemala. Paper presentation entitled "United States Experiences with Problems of the Post-Industrial Age: Technology and the Environments," April and May 1974.
- Paper presentation, "Resource Development in the Arid Lands of Chihuahua," meeting of the Southwestern Association of American Geographers, University of Arkansas, October 1974.
- Paper presentation, "Some Physical and Economic Characteristics of the Border Region," Feasibility workshop to create a U.S.-Mexico Border Commission, El Paso, Texas, December 1975.
- Paper presentation, "Agricultural Development in Sinaloa, Mexico," 19th annual meeting of the Arizona Academy of Sciences and the American Water Resources Association, Arizona State University, April 1975.
- Paper presentation, "A Preliminary Delineation of the Chihuahuan Desert," 52nd Annual Meeting of the Southwestern and Rocky Mountain Division of the AAAS and the Arizona Academy of Sciences joint meeting, University of Arizona, April 1976.
- Paper presentation, "The Climate of Sinaloa," 39th Annual meeting of the Association of Pacific Coast Geographers, Tucson, Arizona, June 1976.
- Invited field trip leader to Chihuahua and panel member-speaker at the opening session: "U.S.-Mexico Border Cities" of the Conference of Latin Americanist Geographers (CLAG) annual meeting, El Paso, October 1976.
- Paper presentation, "Border Studies: Recent Developments and Future Trends in Geography," Conference on Border Studies sponsored by the Cross-Cultural Southwest Ethnic Study Center's Interdisciplinary Humanities Program in Border Studies supported by the National Endowment for the Humanities, U.T. El Paso, May 1977.
- Paper presentation, "Physical and Economic Characteristics of the Border Region," annual meeting of the International Conference of Latin Americanist Geographers, Paipa, Colombia. Also, at same meeting, organizer and coordinator of special session entitled: "Regional Characteristics of Mexico's Northern Frontier", + 4 day field to eastern Colombia, August, 1977.
- Paper presentation, "The El Paso/Juarez Transnational Microcosm: Geography," annual meeting of the International Studies Association, Washington, D.D., February 1978.
- Paper presentation, "The Samalayucca Sand Dune Area and its Relation to the Physical Environment," 74th annual meeting of the Association of American Geographers, New Orleans, April 1978.
- Paper presentation, "A Climatic Delineation of the 'Real' Chihuahuan Desert," annual meeting of the Conference of Latin Americanist Geographers, Rohnert Park, California, June 1978. Also, at same meeting, chaired a session entitled, "Geography and Planning."
- Paper presentation, "Spatial Aspects of International Urbanization: El Paso-Ciudad Juarez," 75th Annual meeting of the Association of American Geographers, Philadelphia, April 1979.
- Paper presentation, "Son-Chih: The Sonoran-Chihuahuan Desert Connection," annual meeting of the Association for Arid Lands Studies, Lake Tahoe Nevada, April 1979. Also, at same meeting, chaired a session entitled: "Land Use Strategies for Arid Regions."
- Invited paper presentation, "Literature and Data Sources for the Study of Weather and Climate in the Arid Zones of Mexico," at the 10th Anniversary Meeting of the Conference of Latin Americanist Geographers, Ball State Univ., Muncie, Indiana, April 1980.

Paper Presentations, Invited Lectures, Honors, Awards, Etc (continued)

- Invited speaker on the subject "Climate and the Chihuahuan Desert" at the Natural Resources and Regional Development: The Case of the Semiarid Region. Sponsored by the International Institute of Applied Systems Analysis (IIASA), the Applied Chemistry Research Center (CIQA), the National Council for Science and Technology of Mexico (CONACYT), and the Mexican National Commission for Arid Lands Studies (CONAZA). Hacienda Cocoyoc, Morelos, Mexico, October 1980 (all expenses).
- Paper presentation with Richard A. Marston, "Los Medanos de Samalayuca, Chihuahua," 29th annual conference of the Rocky Mountain Council on Latin American Studies, Las Cruces, New Mexico, February 1981.
- Paper presentation, "Sources of Significant Precipitation in the Chihuahuan Desert", 22nd annual meeting of the Western Social Science Association, San Diego, Calif., April 1981. Also, at same meeting, chaired a session on Physical Geography, and served as a discussant "El Paso-Ciudad Juarez: A Global Laboratory Revisited", Borderlands Studies session.
- Invited presentation, "Climate of the Chihuahuan Desert", Full-Moon Lecture, White Sands National Monument, New Mexico, June 1981 (expenses).
- Invited speaker, "Climate of the Chihuahuan Desert," Am. Meteorological Soc., El Paso-Las Cruces Chapter, Sept. 1981.
- Invited presentation at workshop for organizing core group, and evaluating concepts and resources for the arid and semiarid zones of Mexico. Inter American Development Bank, CONACYT, and CIQA. Saltillo, Coahuila, Mexico, Feb. 1982 (expenses).
- Paper presentation, "A Preliminary Climatological Analysis of the Sierra Tarahumara, Mexico", 23rd annual meeting, Geography session, of the Western Social Science Association, Denver, Colo., April 1982.
- Invited presentation, "Climatology" at the Symposium entitled "Research Priorities in the Chihuahuan Desert" at the 58th Annual Meeting of the Southwestern and Rocky Mountain Division of the AAAS and the New Mexico Academy of Science, El Paso, Texas, May 1982.
- Invited presentation, "Climatological Research in Northern Mexico Related to Plants with Economic Potential," Centro de Investigaciones Agrícolas del Norte Centro (CIANOC), Instituto Nacional de Investigaciones Agrícolas (INIA), Secretaria de Agricultura y Recursos Hidráulicos (SARH), El Campo Agrícola Experimental de Zacatecas (CAEZAC), July 1982 (expenses).
- Invited presentation, "Climate of the Sierra Madre Occidental", Full-Moon Lecture, White Sands National Monument, New Mexico, August 1982 (expenses).
- Paper presentation, "Climate and Research Assessment in North-Central Mexico", International meeting of the Conference of Latin Americanist Geographers and the Sección Nacional de Dominicana del Instituto Panamericano de Geografía e Historia, Santo Domingo, Dominicana, +4 day field excursion of Dominicana, Oct. 1982.
- Paper presentation (with R. Marston), "Land Surface Forms in the Chihuahuan Desert: Perception and World Comparisons", Assoc. for Arid Lands Studies, Albuquerque, April 1983.
- Organizer (Wm. Lloyd co-organizer) coordinator and paper presentation, "Climate as a Resource in the Chihuahuan Desert", Session title: Environmental Resource Evaluation in Latin America. XI International Congress Latin American Studies Assoc., Mexico D.F., Sept.-Oct. 1983.
- Invited paper presentation, "Chihuahuan Climate", 2nd Chihuahuan Desert Symposium, Chihuahuan Desert Research Institute, Alpine, TX, Oct. 1983.
- Paper presentations (2), "Medio Ambiente y Desarrollo" (Environment and Development), Seminario Taller Para Ejecutivo Sobre Medio Ambiente, and presenter (6 occasions) and panelist for the "Programa del Curso Para Tecnicos Sobre Analisis de Impacto Ambiental; Tema: Aspectos Referentes a los Asentamientos Humanos y los Recursos Naturales y Metodos Practicos de Evaluacion de Impacto

Paper Presentations, Invited Lectures, Honors, Awards, Etc (continued)

- Ambiental". Oficina Nacional de Evaluacion de Recursos Naturales, U.S. Agency for International Development, Environmental Research Institute of Michigan, Contractor, Lima, Peru, including 4 day field excursion to central Andean Mts., Oct. 30 to Nov. 19, 1983
- Presentation of research work: "Use of Satellite Imagery for Climatological Research". KTSM Ch. 9 ABC affiliate, Sept. 1984. 2 TV news appearances and one on the All-News Radio.
- Lecture entitled the "Physical Geography of Chihuahua, Mexico", to the El Paso Archaeological Society, Wilderness Park Museum, Sept. 1984.
- Lecture entitled "Environmental Characteristics of Northern Mexico, to the Sierra Club, El Paso-Las Cruces Region, April 1985.
- Lecture entitled "Geographical Features of Chihuahua, Mexico" to the National Endowment for the Humanities: The U.S. and Mexico Borderlands in Perspective", Oscar Martinez Director. Stipend received, August 1986.
- Invited paper, "The Influence of Physical Geography on the Development of Modern Yucatan", Opening paper at the International Conference on the Development of Modern Yucatan, Merida, Yucatan. Television coverage and newspaper article with photographs, 1987.
- Paper presentation (with Rex. E. Gerald), "The Distribution of Conservation-Type Water Control Systems in the Semiarid Northern Sierra Madre Occidental", Assoc. Arid Lands Studies, El Paso, TX, April 1987.
- Attended workshop on "Map Critiquing" by the Cartography Specialty Group and the National Geographic Society, Phoenix, AZ, April 1988.
- Invited paper entitled "The Mega Chihuahuan Desert" at the 3rd Symposium of the Chihuahua Desert Research Institute, Alpine, TX, Nov. 1988.
- Invited paper presentation, "Climate of the Chihuahuan Desert", Geography Colloquium at New Mexico State University, honorarium, March 1989.
- Paper presentation, "A Climatic Delineation of Mexico's Sonora Desert", Assoc. Arid Land Studies, Albuquerque, N.M., April 1989.
- Invited paper, "The Distribution of Pre-Columbian Rock Check Dams in the Sierra Madre Occidental (Mexico)". Meeting of Northern Archaeological and Historical Organization of Mexico and participated in field trips to Casas Grandes, Chihuahua, Mexico, April 1989.
- Paper presentation, "The Canyon Country of Mexico and Global Comparisons," annual meeting of the Conference of Latin Americanist Geographers, and participated in field trips, Queretaro, Mexico, May 1989.
- Invited paper presentation, "Climatic Characteristics of the Chihuahuan Desert" at the IV Congreso Nacional de Meteorología, Organización Mexicana de Meteorólogos, A.C. Also presented a paper in a technical session entitled "Tropical Revolving Storms as a Source of Precipital Moisture for Mexico's Arid and Semiarid Zones, "Cd. Chihuahua, Chih. Oct. 1989. Also appeared on the television coverage of the meeting for my research work.
- Presentation of Research Work: "Climatic Characteristics of the Chihuahuan Desert" with A. Alvarez Gomez, State Climatologist for Chihuahua. XEW Canal 2 ECOVISION affiliate in Cd. Chihuahua, Chih., Aug. 1990.
- Paper presentation, "The Significance of Mexico's Sierra Madre Occidental as a Watershed" Southwest Division of the Assoc. of Am. Geographers, and participated in field trip, Austin, Texas, Oct. 1990.
- Invited presentation "The Sierra Madre Occidental: Resolving Development Agendas" concerning the World Bank Forestry Development Plan (\$45.5 mil) as part of a \$90 million loan to Mexico for the purchase of logging equipment and "rehabilitation" of forestry roads. Presentation entitled "The

Paper Presentations, Invited Lectures, Honors, Awards, Etc (continued)

- Significance of the S.M.O. as a Watershed". Jan 24-25, 1991 at U. of Arizona sponsored by S.W. and Udall centers (expenses).
- Invited paper presentation, "Physical Geography of the Sierra Madre Occidental of Mexico and Its Relation to the Spatial Development of the Region", Geography Colloquium at New Mexico State University, Feb. 1991.
- Paper presentation, "Precipitation Characteristics of Mexico's Sierra Madre Occidental", Annual Meeting of Assoc. of Am. Geog., Miami, Florida, April 1991.
- Paper presentation, "The Waterfall at Basaseachi, Chihuahua, Mexico", 33rd Annual Conference (Geog. Section) of WSSA, Reno, Nevada, April 1991; in addition, Moderator for section on 'Research Perspectives in Climatology, Biogeography and Fluvial Geomorphology'.
- Paper presentation and workshop with Thomas J. Wood entitled "Eco-Tourism Potential in the Border States" at the 4th U.S.-Mexico Border Conference on Recreation, Parks and Wildlife, Chihuahua, Chih., Mexico, May 1991.
- Invited paper presentation, "Regional Climatology of the Chihuahuan and Sonoran Deserts," and coordinator of U.S. participation for the V Congreso Nacional de Meteorología of Mexico meeting with the theme "Zonas Aridas." This was held at the Escuela Superior de Agricultura "Hermanos Escobar" in Cd. Juarez, Chih. and at UT El Paso October, 1991. Local support from the Center for InterAmerican and Border Studies and the Department of Geological Sciences, UT El Paso.
- Invited presentation at the opening "Community Colloquium: Trans-Border Issues - Free Trade, Labor and the Environment" and respondent for "Maquiladora Agreements" at the 11th International Exchange Conference on "Bridging the Borders: Mexico and the U.S." held at Lewis-Clark State College, Lewiston, Idaho, October 1991 (expenses).
- Invited presentation, "Natural Resources of the Sierra Madre Occidental", Brown Bag Series, Center for Inter-American and Border Studies, U.T. El Paso. Oct. 1991.
- Paper presentation, "Where is the 'Real' Sierra Madre Occidental of Mexico?", 88th Annual Meeting of the Assoc. of Am. Geographers, San Diego, California, April 1992.
- Invited paper presentation, "Mapping Ecozones in Northern Mexico and Texas" (Zonas Ecologicas en el Norte de Mexico y Texas), at the Congreso Internacional de Historia: Adaptaciones Culturales y Cambios Ecologicos en el Norte de Mexico y Texas, Saltillo, Coahuila, Mexico, May 1992 (partial expenses).
- Paper presentation, Dilmus D. James, W. Carrol Johnson, and R.H. Schmidt. "A Model to Assess the Implementation of Commercial Production of Natural Rubber From Guayule" at the North American Economic and Finance Assoc., Anaheim, CA Jan. 1993.
- Invited paper, "Sources of Precipital Moisture for North Central Mexico and the Adjoining U.S." Spring Colloquium Series in Geography, Dept. of Geography, U.T. Austin. Honorarium/expenses. Feb. 17, 1993.
- Paper presentation, "Bolson de Mapimi: A Geomorphological Definition Applied to a Cultural Concept" at the 16th Annual Meeting of the Assoc. of Arid Lands Scholars, Corpus Christi, TX. April 1993. Session Chair "Issues in Water Management".
- Invited paper presentation entitled "The Climate of Trans Pecos Texas" at the conference on "The Changing Climate of Texas: Predictability and Implications for the Future". Climate System Research Program, College of Geosciences, Texas A & M Univ., Expenses. May 1993.
- Paper presentation, "Sources of Precipitable Moisture in the Chihuahuan Desert: Possibilities for Improved Utilization of Rainfall in Western China" at the International Symposium on the Rational Utilization of Natural Resources and Territorial Management of Arid lands, Yinchuan, Ningxia, P.R. China,

Paper Presentations, Invited Lectures, Honors, Awards, Etc (continued)

- Sept. 1993. U.N. Environmental Program, China Society of Natural Resources, Ningxia Assoc. for Science and Technology. Also attended the meeting's field trip inc. Shapotou Desert Experiment and Research Station, Chinese Academy of Sciences.
- Paper presentation, "Tropical Storms as a Source of Precipitable Moisture for Interior China" at 17th Annual Meeting of the Assoc. of Arid Lands Scholars, Albuquerque, NM. April 1994.
- Presentation and slide show concentrating on the Chihuahuan Desert for Park Rangers, volunteers, and staff at the Guadalupe Mountains National Park, Texas. May 1995.
- Invited Keynote speaker, (Conferencia Magistral) "Precipitation and Watershed Significance in the Sierra Madre Occidental (of Mexico)" at the VII Congreso Nacional de Meteorología at Univ. Autónoma de Chapingo. sponsored by the Organización Mexicana de Meteorólogos, A.C. (OMMAC), Academia de Meteorología, and the Centro de Ciencias de la Atmósfera de la UNAM (National Univ. of Mexico). Oct. 23-28, 1995. Expenses paid by the Ford Foundation, Center for Inter American and Border Studies at U.T. El Paso, and the Organizers.
- Paper presentation, "Watershed Assessment of Mexico's Sierra Madre Occidental" at the XXI International Conference of Latin American Geographers (Congreso Internacional de Geógrafos LatinoAmericanistas) in Tegucigalpa, Honduras, Jan. 3-6, 1996.
- Invited lead plenary paper presentation, "Environmental Geography of the Chihuahuan Desert" at the Symposium on the Flora of the Chihuahuan Desert and its Many Ecosystems held in conjunction with the joint annual meeting of the Native Plant Societies of Texas and New Mexico, El Paso, TX, Oct. 19, 1996.
- Interview/presentation, "Climatic Characteristics of the Chihuahuan Desert" on the radio ½ hour KTEP radio program "Sunscape" produced by U.T. El Paso, Dec. 1996.
- Paper presentation "The Significance of the Sierra Madre Occidental as a Watershed" at the Technical Session/Graduate Seminar, Dept. Geol. Sci., U.T. El Paso. Feb. 1997.
- Paper presentation, Robert H. Schmidt and Pedro Muela, "Land Use and Climatic Characteristics in the Rio Conchos Watershed of the Rio Grande System: A preliminary Assessment". Assoc. for Arid Lands Studies, 20th Anniversary Meeting, Albuquerque, N.M., April 1997.
- Paper presentation, "a Preliminary Assessment of the Surface Hydrology and Land Use/Land Cover in the Rio Conchos Watershed of the Rio Grande System, Chihuahua, Mexico" at the XXII International Conference of Latin Americanist Geographers (Congreso Internacional de los Geógrafos Latino Americanistas) in Arequipa, Peru, July 20-23, 1997. Also served as "Suplente" in the session "El Medio Natural: Un Desafío Ambiental?"
- Paper presentation, "The Impact of Recent Drought on the Rio Conchos-Lower Rio Grande System" at the joint conference for Applied Geography and Southwest Assoc. of Am. Geographers, Albuquerque, N.M., Sept. 1997.
- Paper presentation, "Observations on the Physical Geography of the Chihuahuan Desert by A. Wislizenus, M.D." at the Conference of Latinist Americanist Geographers 1998 meeting, Santa Fe, New Mexico, Oct. 1998.
- Invited speaker, "Precipitation and Watershed Significance of the Rio Mayo" at the symposium commemorating the revised and edited edition of Howard Scott Gentry's "Rio Mayo Plants: The Tropical Deciduous Forest and Environs of Northwest Mexico" by the Southwest Center of the University of Arizona and the Arizona-Sonora Desert Museum. This symposium commemorated one of the most important works on plant geography of the New World and honored the memory of a pioneer in ecological studies. Tucson, AZ, Oct. 1998. Total expenses.

GENERAL NATIONAL AND INTERNATIONAL PROFESSIONAL ACTIVITIES

Consultant for Time-Life Books, N.Y. (July 1974 to August 1975) on their American Wilderness series book entitled "The Sierra Madre," Published in 1975. Although I did not author the final manuscript, I did contribute a great deal of information, traveled extensively with the photo-journalist Dan Budnik, and reviewed a number of picture captions and particularly the manuscript on the chapter entitled "Changing Face of the Desert."

General National and International Professional Activities (continued)

Paper entitled "Some Information for Geographers Visiting El Paso-Ciudad Juarez Area" for distribution at the Rocky Mountain Social Science Association meeting in May 1974, 20 pp. and 2 maps.

Consultant for the National Geographic Society on an article entitled "Long Distance Runners: Mexico's Tarahumaras," Vol. 49, No. 5, May 1976.

Member of the Board of Directors, Conference of Latin Americanist Geographers (CLAG), July, 1977 to July 1979. Also served on the Research Committee.

Appointed as a United States representative (1 of 2) for the Commission of Geography, Pan-American Institute of Geography and History (PAIGH) a specialized agency of the Organization of American States (OAS), 1977-1982. Also served on Research Committee

Consultant for MITRE Corporation, McLean, Virginia, on an environmental impact statement for the Sierra Madre Occidental of Mexico, August 1978.

Consultant to the Special Publications Division of the National Geographic Society for a book entitled "America's Majestic Canyons", February-March, 1979.

Consultant for Paleontological Resource Inventory (air photo interpretation and mapping), Western Associated Coal Corp., and Cimarron Coal Company, San Juan County, New Mexico, Dr. D.V. LeMone, Director, July-September, 1979; also for Santa Fe Mining Co., Lee Ranch, New Mexico, July-September, 1980; and Lee Ranch-2, January, 1981.

Consultant to the Special Publications Division of the National Geographic Society for a book entitled "America's Magnificent Mountains," December 1979 to March 1980.

Nominations Committee, Association for Arid Lands Studies (AALS), 1980 to 1982.

Geography Program Coordinator, Western Social Science Association (WSSA) Annual Meeting, San Diego, California, April 1981. Also responsible for publishing abstracts.

Professor Investigator Assessor, Colegio de Graduados, Escuela Superior de Agricultura "Hermanos Escobar", (ESAHE), Cd. Juarez, Chihuahua, Mexico (1981-present).

Consultant, Earth Science July 1985, APT Program July 1984, In-service program for El Paso Public Schools, Geography, July 1983, Climatology and Chihuahuan Desert-July 1982; and for Ysleta Public Schools-Geography, August, 1981.

1982-85: Elected member, Executive Council of the Western Social Science Association. Search Committee for editor of the "Social Science Journal", 1983.

Instrumental in formalizing a Memorandum of Agreement between the U.T. El Paso and the Secretary of Agriculture and Water Resources (SARH) and the National Institute for Agricultural Research (INA) of Mexico (1982).

1982 to 1990, Member, Texas Natural Resources Advisory Group to State Senator H. Tati Santiesteban, Chairman. Mt. Franklin State Park Committee.

1982 to present, Elected member Board of Scientists of the Chihuahuan Desert Research Institute, Alpine, TX.

1984-1984, President-Elect, and Program Chairman (for San Diego, Calif-meeting), Assoc. of Arid Lands Studies.

Consultant and participant, Oficina Nacional de Evaluacion de Recursos Naturales, U.S. Agency for International Development, Environmental Research Institute of Michigan Contractor, Lima, Peru. Field excursion to Callejon de Huaylas in Andes, Oct. 30 to Nov. 19, 1983. Also see paper presentations and publications.

1984 Consult for Public Television hour long program entitled "Desert Blooming" (Chihuahuan Desert), NOVA, Boston, MA.

1984-85, President, Association of Arid Land Studies.

General National and International Professional Activities (continued)

Associate faculty, Latin American Studies Program of the University of Alabama and U.T. El Paso, 12th Annual Interim Program in Yucatan, Mexico, May 14-31, 1984.

1985, Forum, Assoc. for Arid Lands Studies, Vol. I, ICASALS, Editorial Review Committee.

Consultant for International Technology Corporation Houston, TX, & Knoxville, TN. Mapping and Water Resources for Border Industrial Program Plants in Cd. Juarez, Chihuahua, Jan. 1986.

Field-trip leader (with J. Brannon, Econ.) for National Collegiate Honors Program: Borderland Semester to northern Chihuahua and the Sierra Madres and Canyon County. 31 persons, 8 days, March 1986; Honorarium.

Stipend from National Collegiate Honors Program: Borderland Semester. Reader for 2 student semester papers, May 1986.

Consultant for the book "Drylands: The Deserts of North American", photographed and authored by Philip Hyde, Published by Harcourt, Brace, received honorarium, 1987.

Field-trip leader and lecturer with J. Brannon (Econ.) for the Center for Professional Development, U.T. El Paso to northern Chihuahua and the Sierra Madre and Canyon County, March 1987 and in April 1988; Honorarium.

Field-trip leader (Samalayuca Dunes) with J. Brannon (Econ.) to northern Chihuahua, Mormon & Mennonite colonies, Indian habitation sites etc. for Soc. for Cross-Cultural Research, Jan. 1988.

Provided indepth commentary as an Academic specialist on field trip to the Sierra Madre Occidental of Mexico for the annual meeting of PROMEX-ANUIES: Consortium of U.S.-Mexico Research Programs. Express funded by the U.S. Information Services in Mexico, Sept. 1988. About a dozen scholars, most of whom were directors of Latin American studies programs from states on both sides of the border, attended the five day meeting-excursion; Honorarium.

Representative and presentation (1 of 4) for U.T.E.P. El Paso to Consorcio de Investigacion del Desierto Chihuahuense, Universidad Chihuahua, U.T. El Paso, and Sul Ross State Univ., Cd. Chihuahua, Mexico, Sept. 1989; and as a U.T.E.P. representative to the Chihuahuan Desert Research Consortium, and attended the annual meeting of the Board of Scientist (I am a member) of the Chihuahuan Desert Research Institute, Sul Ross State Univ., Alpine, Texas, Nov. 1989.

Manuscript reviewer for "The American Naturalist", March 1990 (their request).

Attended the meeting of the Chihuahuan Desert Research Consortium at Sul Ross State University as a representative of UTEP and a member of the Board of Scientist for the Chihuahuan Desert Research Institute, April 1990. Elected Chairman of site selection committee for 1993. U.T. El Paso chosen as location of Oct. 1993 fifth meeting, Nov. 1990.

Manuscript reviewer for the "Conference of Latin American Geographers (CLAG) Yearbook" 1989 submission, June 1990 (their request).

Consultant and citation (p. 137) on statistics concerning canyons and canyon measurements for National Geographic Society (canyon and waterfall measurements). Sixth Atlas of the World 1990.

Provided indepth commentary on a private tourist train through the Sierra Madre Occidenta by "Let's Travel Tours", E. Von Nordeck, Riverside, CA. This trip was professionally filmed, produced and distributed as "The Copper Canyon: Chihuahua Pacifico Railroad, Pentrex, Pasadena, CA. 80 minutes, 1990; all expenses

Member and re-appointment to Texas Natural Resources Advisors Group to State Senator H. Tati Santiesteban, Chairman, 1987 to 1990 (the 6 term Senator lost the election).

Prepared 500 multiple-choice questions for geography section of the U.S. Academic Decathlon, ACADEC Resources and Testing, San Antonio, TX. Completed and fee paid, July 1991.

General National and International Professional Activities (continued)

Flew aerial reconnaissance over the Sierra Madre Occidental of Chihuahua and Durango, Mexico with Lighthawk Environmental Airforce, a non-profit organization based in Santa Fe, NM, June 22 to 28, 1991. This activity was in conjunction with the World Bank's \$90 million logging project in the Sierra. Received most hotel expenses from Columbus Travel, San Antonio, TX, and substantial flight-observation time and ground-truth field trip.

Attended the International Conference on "Degradation and Resotration of Arid Lands" held in honor of H.E. Dregne, and all-day Study Tour field trip. International Center for Arid and Semiarid Land Studies (ICASALS), Texas Tech University, September, 1991.

Local Arrangements Chairman for the U.S. participation in the V Congreso Nacional de Meteorologia of Mexico meeting with the theme "Zonas Aridas." This was held at the Escuela Superior de Agricultura "Hermanos Escobar" in Cd. Juarez, Chih. and at UT El Paso October 1991. Local support from the Center for InterAmerican and Border Studies and the Department of Geological Sciences, UT El Paso.

Expert witness on climatological and geomorphological factors pertaining to the Otero County, New Mexico landfill. Deposition and testimony at hearing on behalf of Concerned Citizens for the Environment (CCE) represented by the New Mexico Environmental Law Center, Santa Fe, N.M. over the proposed expansion of the regional landfill south of Alamogordo and just west of Oliver Lee State Park, Dog Canyon, and Sunspot National Solar Observatory in the Sacramento Mts./Lincoln Nat'l. Forest, New Mexico by Waste Management of the Southwest. Sept-Nov. 1991. Results: landfill was closed and moved to another site.

Judge/reader for the W. Frank Blair Award for the best student paper pertaining to the natural sciences and the Chihuahuan Desert region. Chihuahuan Desert Research Institute, Alpine, TX. 1992.

Attended the "4th Arizona Weather Symposium", Scottsdale, AZ. Sponsored by the AZ State U.: Office of Climatology, NOAA: Nat'l Severe Storms Lab & Nat'l Weather Service, and U. of AZ.: Institute of Atmospheric Sci. June 10-12, 1992.

Co-editor with K.F. Clark (senior ed) and J. Roldán Quintana for "Geology and Mineral Resources of Northern Sierra Madre Occidental, Mexico". Guidebook for the 1992 Field Conference of the El Paso Geological Society, Sept. 1992, 479 pp. & map, and co-field trip leader (Clark leader and organizer)

Parts of my research were cited in the following widely distributed sources: Backpacker Magazine (Nov. '89), Summit Magazine (May-June '89), Odessa American Newspaper (Nov. '89), R. Fisher's book "National Parks of Mexico (various eds, since 1984), J. Fayhee's book "Backpacking in the Sierra Madre" (1990), the El Paso Times (Dec. '90), Four Wheeler (Feb. '91). and editions of "Mexico" Lonely Planet Travel Survival Kit, Oakland, CA. Also contacted by "Reader's Digest" and the "Canadian Almanac: Book of World Facts" (1991), and National Geographic Soc. 1992 & 1993 for information, and in the national distributed Amer. Auto. Assoc. (AAA) travel news, Feb. '94.

Co-Conference Director and local arrangements with John Peterson, Conference Director (Anthro UTEP), evening social, and Chairman for session "Biological and Historical Diversity" for the conference "At the Pass: Cultural Adaptation and Ecological Change in Northern Mexico and the American Southwest". Univ. of Texas, at El Paso. March 16-19, 1993.

Local arrangements committee for the Fourth Symposium on "Resources of the Chihuahuan Desert Region: United States and Mexico." Sponsored by the Chihuahuan Desert Research Institute, Univ. of Texas, El Paso, Sul Ross State Univ., and the Big Bend Natural History Assoc. Sept. 30-Oct. 2, 1993.

Elected to the Board of the Conference of Latin Americanist Geographers (CLAG). Asociación de Geografos Latinoamericanistas for the 1993-1996 term.

General National and International Professional Activities (continued)

TV appearance and commentary on news story "The Affect of Weather on Humans". KTSM - NBC affiliate, Channel 9, El Paso. May 1994.

Resource faculty and expert commentary for field trip (5 days) to Chihuahua and the Sierra Madre, and slide presentation for the National Collegiate Honors Program: Borderland Semester, Spring 1994, U.T. El Paso. (25 participants); Honorarium.

Field trip leader to the Sierra Madre Occidental (1 week) and local arrangements (Comité Coordinador) with Wm. Doolittle, Chairman, Geography U.T. Austin for the XX Conference of Latin Americanist Geographers held in conjunction with the XIV Congreso Nacional de Geografía meeting entitled "La Geografía Ante la Globalización" in Cd. Juarez, Chihuahua Mexico. Supporting organizations included the Instituto Nacional de Estadística, Geografía e Informática INEGI, the Sociedad Mexicana de Geografía y Estadística, and the Univ. Autónoma de Ciudad Juárez. Also wrote and distributed "Some Information for Geographers Visiting the Cd. Juárez-El Paso Area", 7 pp. including two professional maps. Sept/Oct. 1994.

Field trip leader with J. Peterson, Archeology U.T. El Paso, to the Samalayuca Dunes area of Chihuahua, Mexico (1 day) as part of the "Celebration of Our Mountains", a weekend highlighting the natural history, science, and environment supported by numerous local groups and museums, Oct. 1994.

Field Trip leader to El Paso-Cd. Juárez for the S.W. Am. Assoc. of Geographers (SWAAG) meeting hosted by New Mexico State University. Full day, 2 vans, Oct. 7, 1995, (24 participants).

"Some Geographical Information Pertaining to El Paso, Texas" requested information for the El Paso Chamber of Commerce, Nov. 1994, 2 pp.

Consultant for National Geographic Magazine for article entitled "Sierra Madre: Backbone of the Frontier", by Paul Salopek in a special issue devoted to Mexico, Vol. 190, No. 2, Aug. 1996, pp. 44-51.

Attended "The Natural Step: A Binational Environmental Education Workshop", hosted by the Center for Environmental Resource Management, U.T. El Paso, Training by Second Nature, Cambridge, MA, and funded by the Historically Black Colleges and Universities/Minority Institutions Environmental Technology Consortium and the Department of Energy. June 12, 1996. Honorarium.

Expert commentary and co-leader with J. Brannon (Economics, U.T. El Paso) for 23 faculty members of the College of Business Administration to Cd. Chihuahua and Cuauhtemoc (Mennonite colonist). Funded by The Center for the Study of Western Hemispheric Trade, College of Business Administration, U.T. El Paso. Oct. 11-13, 1996; expenses and Honorarium.

Television interview concerning the World Bank Dev. Project in the Sierra Madre Occidental of Mexico on "Impact: Environmental Report" which was viewed nationally in May 1992 on over 90 stations across the U.S. Traveled with the film crew in northern Mexico. A three minute segment released by Preview Media, San Francisco, CA. This environmental report has been shown on numerous occasions both nationally and internationally. I last saw it in a slightly repackaged version in Peru, July 1997 as "Eco Hecho" in Spanish.

Resource person for information and review of articles pertaining to the Sierra Madre Occidental by the international offices in Mexico City for the San Antonio and San Jose, CA (Mercury) newspapers (1996). Also provided Cruz Perez Cuellar, Diputado Federal from Chihuahua with climatic data and graphs etc. for the weather and climate for Cd. Juárez, El Paso, and White Sands for mediation with the Comision Federal de Electricidad, Mexico (1996).

Interview and citation in article "La Disputa por las Dunas Samalayuca" by P. Giovine for Diario de Juárez, Sept. 20, 1997.

General National and International Professional Activities (continued)

Professional information source for Samuel Dillon, Correspondent, Mexico City Bureau for the New York Times for article entitled "Civilization Coming to the Copper Canyon, Mexico's Last Wild Frontier?" Aug. 1997.

Field Seminar leader with J. Brannon (Econ. UTEP) included orientation and a 10 pp. fieldguide for the Center for the Study of Western Hemispheric Trade and the College of Business Administration to Chihuahua, Mexico. The COBANISTAS Ride Again. Activities included Instituto Tecnológico de Chihuahua, Ford Motor Company Planta Motores de Chihuahua, El Paso Saddleblanket Company factory at Rancho El Cid as well as tours of Cd. Chihuahua, Mennonite colonies near Cuauhtemoc, and the old mining town of Santa Eulalia (1707). Oct. 1997. A similar trip took place in Oct. 1996. 25-30 university professionals participated in each trip; Honorarium.

A professional cameraman and television news anchorman Nick Miller (NBC affiliate Ch. 9, El Paso) participated in the seminar. Four "On the Road With Nick Miller" television shorts were produced on each trip with different topics. R. Schmidt describing the 1847-1848 Battle of Sacramento from the site where Col. A.W. Doniphan defeated the Mexican army and took Chihuahua City and also at the location where 15 American mining engineers were slaughtered at Santa Isabel by Villistas were among those televised.

Initiated a formal convenio with Mexico's Instituto Nacional de Estadística, Geografía e Informática (INEGI) during a visit to their national headquarters March 1997. More recently steps have been taken to establish a class "A" distribution site for INEGI at U.T. El Paso.

Reviewer for an article in the CLAG Yearbook 1999 on Sonora, Mexico.

Reviewer of an article for Journal of Arid Environments: Academic Press, Cambridge, UK, on 1) climatic and ecological gradient in China, 1999; 2) rainfall in mountainous environments of West Texas, 1999; 3) forecast of Kuwait precipitation, 2000; 4) ecosystems in Spain, 2001; and 5) solar and wind evaluation in Utah, 2001.

A professional cameraman and television news anchorman Nick Miller (NBC affiliate Ch. 9, El Paso) participated in the seminar. Four "On the Road With Nick Miller" television shorts were produced on each trip with different topics including R. Schmidt describing the 1847-1848 Battle of Sacramento from the site where Col. A.W. Doniphan defeated the Mexican army and took Chihuahua City and also at the location where 15 American mining engineers were slaughtered at Santa Isabel by Villistas were among those televised, 1999.

Resource reference source for National Geographic Society, Research Division, for Paul Salopek's article "Looking for Lumholtz," June 2000 issue (Lumholtz was a noted scientist who traveled and made collections in the Sierra Madre Occidental over 100 years ago; Honorarium

Organizer with substantial local assistance and as a participant in the filming of "On the Road" with N. Miller, TV new anchorman for NBC affiliate Channel 9 in El Paso which concentrated on the 4th re-enactment of the assassination of Pancho Villa in H. de Parral, Chihuahua, and the related Jornadas

Villistas, July 2000; incl. R. Schmidt commentary on mining at Santa Barbara, Chihuahua, which dates back to the 1500's.

Instructor with J. Brannon for field trip "Chihuahua and the Copper Canyon" sponsored by the UT El Paso Division of Professional and Continuing Education and the Office of Alumni Relations. The trip to the Sierra Madre also included the 1st YT El Paso Alumni Reception in Cd. Chihuahua attended by President D. Natalicio; October 2000; Honorarium.

Committee members for El Paso's Centennial Museum's Chihuahua Desert project (Project Desert Masterminds), and in association, providing informational fact sheets for the KTEP (UTEP) radio programs "Desert Diary" (e.g., topics and precipitation, whirlwinds, equinox, etc.); 2000 to present

UNIVERSITY POSITIONS AND COMMITTEE MEMBERSHIP AT U.T. EL PASO

Member, Promotion and Tenure Review Committee for the College of Science, 1993 to 1997.

Member, Advisory Committee for the Center for Inter-American and Border Studies 1980-1983, 1987-98.

Member Support Programs 1987-90, and Project Proposal Committee 1991 to 1998.

Member of four person Program Review Committee for the Department of Economics and Finance, College of Business, U.T. El Paso, July 1996.

Chairman, J. and V. White Award for the best geography related student paper (\$1,000) 1987 to present.

Also award (\$1500) for best senior geography student (1982-86).

Coordinator of Geography Program, 1969 to present. BS/BA degree program awarded June 1982, terminated 1986.

Director, Cartographic Center, 1982 to present.

Faculty-Library Liaison for the Map and Remotely-Sensed Imagery Collection (1973 to present). Since the collection's inception, more than 100,000 maps have been obtained and cataloged. Responsible for the ongoing map exchange with National Institute of Statistics, Geography, & Information in Mexico begun 1981.

Member, University Academic Achievement Committee (1979 to 1982)

Research Associate, Bureau of Business and Economic Research, (1980 to 1986)

Member, Search and Screen Committee for the position of Director of the Center for Inter-American and Border Studies, 1980-81, and again in 1982.

Member, Search Committee for the position of Dean of the College of Science, 1980-81.

Department Representative, Faculty Senate (four times, 2 year terms).

Member, Editorial Board for the Center for Inter-American and Border Studies (1977-1981).

Member, College of Science Committee on Faculty Development (1978-79).

Member, Recreational Sports Club advisory Committee (1977-1980).

Member, Committee to Develop the College of Science portion of the proposed doctoral program in Environmental Science and Engineering (1977-1980). Also, served a similar role for the Border-Studies Institute, including formalizing working agreements with New Mexico State University (1978-1979), and the Master of Science in Interdisciplinary Studies MSIS (program accepted 1980).

Member, Teacher-Effectiveness Study Committee for the College of Science (1977-1978).

Outside Reader appointed by the Graduate School to J. Ohajah thesis committee, 1984.

Member, Student Grievance Committee, Special Session 1984.

Coordinator, United Way, for College of Science 1981; Department of Geological Sciences, 1982, and 1983.

Committee Member, Cooperative Doctorate Program in Latin American Studies between UT El Paso and UT Austin, 1986 to 1993.

Member, Ad Hoc Campus Sign Committee, 1986 to 1988.

Onomastics Committee, U.T. El Paso Library, 1990 to 1994.

Scholarship Committee, General Casimir Pulaski Society, Lodge no. 3155, Polish National Alliance of North America 1979 to 1993; Chairperson 1986 to 1993.

University Positions and Committee Membership at U.t. El Paso (continued)

Conducted a half zone \pm tours of campus El Paso for visiting dignitaries, most notable, Richard Leakey. I also had the similar honor for his father, Louis, while a student at UCLA.
Curriculum working group for the B.S. program in Environmental Science, MIE, U.T. El paso, 1999.

SOME DEPARTMENT POSITIONS:

Personnel Committee (elected) 1994-1997, and several times in the past.

Undergraduate Advisor for Geography 1985 to 1988

Committee Member: Border Studies Liaison, Cartographic Center/Remote Sensing/Scholarship Committee.

Undergraduate Curriculum Committee/Faculty Senate half a dozen times.

MISCELLANEOUS:

Owner, International Map Co., El Paso, TX, 1977 to present. More than 85,000 maps sold.

Member Race Committee and Head Curve Judge, El Paso Track & Field Assoc. (1977-1989) Official-timer for numerous distance races and fun runs in the El Paso-Juarez area. The Athletic Congress (TAC) certified.

Head coach of very successful soccer teams (27W, 4T, 3L, inc. playoffs, 2 of the losses were to a select team in Albuquerque, NM) for 8-10/11-12 years old (Fall 1978 to Fall 1980-city champions), Southwest Soccer League/American Youth Soccer Organization.

Assistant Program Administrator, Human Development Summer Track & Field Clinic Program for El Paso County, funded by the Comprehensive Employment and Training Act (CETA). Program Administrator: Ted Banks, Head Coach of Track & Field at U.T.E.P., and winner of 17 national NCAA titles. Summer 1979, and summer 1980.

Tournament Committee (tennis), Santa Teresa Country Club, Santa Teresa, NM, 1983 to 1985.

Leader of numerous and extensive field trips for student and faculty at U.T. El Paso.

Hobbies include: running, biking, travel.