

Mark R. Leipnik  
Associate Professor of Geography & Geology  
Department of Geography & Geology  
College of Arts and Sciences

### **Degrees Earned**

Ph.D. in Geography, University of California, Santa Barbara, 1995.

M.B.A. Rice University, 1987.

B.A. in Environmental Studies, University of California, Santa Barbara, 1985

B.A. in Business Economics, University of California, Santa Barbara, 1985

### **Peer-Review Publications and Artistic Performances/Exhibitions**

#### **Articles**

#### **Books**

Leipnik Mark R. GIS generated maps of organic farms in Canada and organic farms in Sweden in Darrell McLaughlin, Ed. Organic Farming Systems Edwin Mellen Press. In Press 2008.

Leipnik, Mark R and Christopher Baldwin GIS for Mapping and Analysis of Submarine Groundwater in Submarine Groundwater. Igor Zektser, Ed. CRC Press Boca Raton Florida. In press 2008.

Leipnik Mark R. Geographic Information Systems in Cyber Warfare and Cyber Counter Terrorism in Encyclopedia of Cyber Warfare and Cyber Counter Terrorism, Andrew Kolarik, Ed. IDEA Press. 2007.

Leipnik, Mark R and Gang Gong. Remote Sensing Image Processing in Cyber Warfare and Cyber Counter Terrorism in Encyclopedia of Cyber Warfare and Cyber Counter Terrorism, Andrew Kolarik, Ed. IDEA Press. 2007

Leipnik, Mark R. and Donald P. Albert. Interjurisdictional Law Enforcement Data Sharing: The Benefits of the Use of Geo-spatial Technologies and the Barriers to more Widespread Cooperation. Chapter 2 in GIS and Crime Analysis. Edited by Fahui Wang. Idea Group, Inc. Hershey, PA. 2005.

Roh, Sunghoon and Mark R. Leipnik. Geographic Profiling and Spatial Analysis of Serial Homicides Chapter 8 in GIS and Crime Analysis. Edited by Fahui Wang. Idea Group, Inc. Hershey, PA. 2005.

Leipnik, Mark R. and Sanjay S. Mehta. Geographic Information Systems in Electronic Marketing, Chapter in Advances in Electronic Marketing. Editors Theresa B. Flaherty and Irvine Clarke III. 2004.

Leipnik, Mark R. and Hakan Can. GIS in Counter Terrorism. Chapter in Police Information Technology Published by the National Police Agency of the Turkish Republic, Ankara, Turkey. 2004.

Mehta, Sanjay S. and Mark L. Leipnik. Geography Information Systems, in Great Ideas in Retailing. A supplement for Retail Management: A Strategic Approach, 9th edition, by Barry Berman and Joel R. Evans, Prentice-Hall. 2004.

Leipnik, Mark R. and Sanjay S. Mehta 2004. Geographic Information Systems in Retailing a case study of Starbuck's use of GIS, Chapter in Retail Management, 5<sup>th</sup> Edition, Michael Levy and Barton Weitz, Editors. Irwin/McGraw-Hill. 2004.

Leipnik, Mark R. and Donald Albert Eds. Geographic Information Systems in Law Enforcement: Implementation Issues and Case Studies. Taylor and Francis, London, U.K. 2003

Leipnik, Mark R. and Donald Albert. How Law Enforcement Agencies Can Make Geographic Information Technologies Work for Them. Chapter 1 in GIS in Law Enforcement. Taylor and Francis, London, U.K. 2003.

Leipnik, Mark R. and Donald Albert. Implementation Issues. Chapter 2 in GIS in Law Enforcement. Taylor and Francis, London, U.K. 2003.

Leipnik, Mark R., Donald P. Albert, Dennis Kidwell, and Alberto Mellis. Case study in GIS Use in Waco, Texas Police Department, in: GIS in Law Enforcement. Taylor and Francis, London, U.K. 2003.

Leipnik, Mark R., John Bottelli, Ian Von Essen, Ariane Schmidt, Laurie Anderson and Tony Cooper. Apprehending Multiple Murderers in Spokane, Washington Using GIS and GPS. Chapter 12 in GIS in Law Enforcement. Taylor and Francis, London, U.K. 2003.

Burns, Tim, Mark R. Leipnik, Kristin Preston and Lt. Tom Evans. The Enforcer GIS: Helping Pinellas County, Florida Manage and Share Geo-Spatial Law Enforcement Data. Chapter 13 in GIS in Law Enforcement. Taylor and Francis, London, U.K. 2003.

Leipnik, Mark R. and Donald Albert. Use of GIS Technology in the Delaware State Police's Real-Time Reporting System. Chapter 14 in GIS in Law Enforcement. Taylor and Francis, London, U.K. 2003.

Andrew Costello and Mark R. Leipnik. Journeys to Crime: GIS Analysis of Offender and Victim Journeys in Sheffield, England. Chapter 16 in GIS in Law Enforcement. Taylor and Francis, London, U.K. 2003.

Albert, Donald and Mark R. Leipnik. Towards a Lexicon of Criminology and Geography, Section in GIS in Law Enforcement. Taylor and Francis, London, U.K. 2003.

Leipnik, Mark R. and Sanjay S. Metha. Using GIS to Locate Retail Stores in Retail Management: A Strategic Approach, 8<sup>th</sup> Ed. Barry Berman and Joel Evans Eds. Prentice Hall. 2001.

Leipnik, Mark R. Introduction to Spatial Analysis, GIS and Remote Sensing in Human Health and Disease Science. Edited by Donald Albert, B. Levergood & W. Gester. Ann Arbor Press. 2000.

Leipnik, Mark R. and Raj Panmanabhad Glossary of GIS Terminology. Technical Publication # 92/13. National Center for Geographic Information and Analysis GIS Publications Series. Santa Barbara, CA. 1992.

### **Articles**

Leipnik, Mark R. 2008. Water in Texas *Southwestern Geographer*. Special Issue of the Southwestern Section, American Association of Geographers on the Geography of Texas. Intended for use in a new college level text book on The Geography of Texas. AAG College Station, Texas.

Leipnik, Mark R. 2007. Role of Research in the Education of Geo-Spatial Technology Professionals: Ten Years of Experiences at Sam Houston State University. *Council on Undergraduate Research Quarterly Journal*. Vol 27 #2.

Leipnik, Mark R., Sanjay S. Mehta, and Balasundram Maniam. 2004. Geographic Information Systems: Technology for Business-Decision Making, *The International Journal of Technology Management*.

Leipnik, Mark R., Sanjay S. Mehta, and Balasundram Maniam. 2004. TIGER 2000: Taking Geo-Demographic into the 21<sup>st</sup> Century, *Review of Business Information Systems*.

Sanjay S. Mehta, Balasundram Maniam, and Mark R. Leipnik. 2004. Electronic Commerce: The Emerging Technology for Tomorrow's Businesses, *Academy of Information and Management Sciences Journal*.

Leipnik, Mark R., Sanjay S. Mehta, and Balasundram Maniam. 2004. Truck Side Advertising: An Appraisal, *International Journal of Advertising*.

Mehta, Sanjay S., Balasundram Maniam, and Mark R. Leipnik. 2003. The Past, Present, and Future of E-commerce in the New Economy, *Journal of Strategic E-commerce*, Vol. 1 No. 1, 11-22.

Metha, Sanjay, Balasundram Maniam & Mark R. Leipnik. 2001. Electronic Commerce an Emerging Technology for Tomorrow's Business. *Academy of Information and Management Sciences Journal*. 2001.

Maniam, Balasundram, Sanjay S. Mehta and Mark R. Leipnik, 2001. Determinants of U.S. Foreign Direct Investment in European Union: Case of Spain, Portugal, and Italy, *Journal of Accounting and Finance Research*, Vol. 9, No. 5, 71-80.

Maniam, Balasundram, Sanjay S. Mehta, and Mark R. Leipnik. 2000. Online Trading: Problems and Challenges, *Academy of Information and Management Sciences Journal*, Vol. 3, No.1, 107-115. 2000.

Leipnik, Mark R. and Donald Albert 2000. How Law Enforcement Agencies Can Make Geographic Information Systems Work for Them. *Journal of the International Association of Chiefs of Police*. Vol. LXVII, No. 9. September, 2000.

Albert, Donald P. and Mark R. Leipnik. 2000. Exploring the World, United States and North Carolina Using the Internet: Resources for Geographic Education. *North Carolina Geographer*. No. 8. August, 2000.

Leipnik, Mark, R. 2000. Review of: Learning to Glow, A Nuclear Reader, Edited by John Bradley. *Journal of Cultural Geography*. Vol. 19, No. 7. July 2000.

Leipnik, Mark R. and Donald Albert 2000. Review of: Atlas of Cultural Diversity of Wisconsin, By K. Zaniewski and C.J. Rosen. *Journal of Cultural Geography*. Vol. 19, No. 1. January, 2000.

Leipnik, Mark R, Sanjay S. Mehta and Balasundram Maniam. 1999, Application of GIS in Small and Medium Enterprises, *Journal of Business and Entrepreneurship*, Vol. 11 No. 2, 77-88.

Mehta, Sanjay S., Balasundram Maniam, and Mark R. Leipnik 1999, The Journal of Business Strategies: The First Fifteen Years, *Journal of Business Strategies*, Vol. 16 No. 1, 89-105.

Leipnik, Mark R. 1998. Book Review of Plutonium and the Rio Grande by William Pfaff. *EOS, Journal of the American Geophysical Union*.

Leipnik, Mark R., Irene Perry, Poonam Shrestha and Rob Evans. 1997. GIS-Based Analysis of Current and Historical Vegetation Composition in East Texas. *Journal of the Texas Academy of Sciences*, Volume 49, Number 3, August 1997.

Leipnik, Mark R. 1993. GIS for Groundwater Resources Management. *Journal of Water Problems*. In English with Russian Translation and commentary by Dr. Igor Zekster; Director Hydrogeology Branch CIS Academy of Sciences. July 1993. Academy of Sciences, Russian Republic. Moscow

Leipnik, Mark R. Hugo Loiaciga and Karen Kemp 1993. Implementation of GIS for Water Resources Planning and Management. American Society of Civil Engineers, *Journal of Water Resources Planning and Management*. April/May 1993. Washington, D.C.

### **Proceedings**

Leipnik, Mark R. & Pavel Anpilogov. 2007 Geospatial Infrastructure in the Ukraine and Other Post Soviet States Proceedings of the ESRI International GIS Conference, San Diego, California.

Leipnik, Mark R 2006. Water Resources Management and Mapping Using GIS Presented to Aquatech, International Water Management Conference and Exposition, Moscow, Russian Republic.

Leipnik Mark R. and Sanjay S. Mehta 2006. Inaccuracy, Misuse and Misunderstanding of Geo-Demographic Attribute Data. Proceedings of the ESRI International GIS Conference, San Diego, California.

Leipnik, Mark R. and Rose Seidel 2005. Spatial Accuracy of Street Center-line Data-sets: a global perspective Urban and Regional Information Systems Association, Annual Meeting, Austin, Texas, August 4-6, 2005.

Leipnik, Mark R. and Sanjay S. Mehta 2004. U.S. Geo-Demographic Data: Problems and Solutions. Proceedings of the ESRI International GIS Conference, San Diego, California. August 8-12, 2004.

Leipnik, Mark R. 2004. GIS and E-Marketing. Business Geo-Information Summit. Chicago, June 14-16, 2004.

Leipnik, Mark R., Sanjay S. Mehta, and Subhash C. Mehta 2004, Geo-demographic Data: A Global Perspective of GIS, The International Academy of Business Disciplines, 16th Annual Conference, San Antonio, TX, March 25-28.

Leipnik, Mark R., Sanjay S. Mehta, and John J. Newbold 2003, Truck Side Advertising: An Appraisal, European Applied Business Research Conference, Venice Italy, June 9-13.

Leipnik, Mark R., Sanjay S. Mehta, and Balasundram Maniam 2003, An Introduction to TIGER 2000, Marketing Management Association Spring Educators Conference, Chicago IL, March 12-14.

Leipnik, Mark R. 2003. Inter-jurisdiction Law Enforcement GIS Proceedings of the ESRI International Geographic Information Systems Conference and Exposition. San Diego, CA. July 7-11, 2003.

Leipnik, Mark R., Sanjay S. Mehta, and Rose Seidel 2002, Geodemographic Data: An International Perspective, Proceedings of the The Second International Conference on Electronic Business ICEB, Taipei, Taiwan, December 10-13.

Leipnik, Mark R. Gurinderjit B. Mehta, Virginia Wilder, and Sanjay S. Mehta 2002, Importance of the Internet in University Curriculums: A Case Study at Sam Houston State University, Proceedings of the The Second International Conference on Electronic Business ICEB, Taipei, Taiwan, December 10-13.

Mehta, Sanjay S., Balasundram Maniam, and Mark R. Leipnik 2002, A Web-based Integrated Marketing Communication Approach: An Exploratory Study, Proceedings of the Academy of Marketing Studies of Allied Academies International Conference, Las Vegas NV, October 2-5, Vol. 7 No. 2, 48.

Leipnik, Mark R., Sanjay S. Mehta, and Balasundram Maniam 2002, Geographic Information Systems: Technology for Business-Decision Making, Proceedings of the Seventh Asia Pacific Decision Science Institute APDSI Annual Meeting, Bangkok Thailand, July 24-27.

Leipnik, Mark R., Sanjay S. Mehta, and Rose Seidel 2002, Geodemographic Data Around the World: Availability and Characteristics, Proceedings of the International Geographic Information Systems Conference and Exposition, San Diego, CA, July 8-12.

Mehta, Sanjay S., Mark R. Leipnik, Balasundram Maniam, and Hadley W. Leavell 2002, Internet Advertising – Distinguishing your Online Company, International Business Association Conference.

Leipnik, Mark R. 2001. Real-Time Environmental Decision Support System for Land Management on Military Installations. Proceedings of the Environmental Systems Research Institute International GIS Conference and Exposition. Paper in Proceedings. June 24-28, 2002. San Diego

Mehta, Sanjay S., Mark R. Leipnik, and Frank Daniels 2000, Electronic Commerce: The Emerging Technology for Tomorrow's Business, Proceedings of the Academy of Information and

Management Sciences, Vol. 4, No. 2, Allied Academics International Conference, October 11-14, 52-56, Maui, HI.

Metha, Sanjay, Balasundram Maniam and Mark Leipnik 2000. "Strategies for Teaching Marketing Research Courses" Marketing Management Association Annual Meeting. September 18-19, 2000. Saint Louis, Mo.

Leipnik, Mark R., Donald Albert, Andrea Glazebrook, Kerry Monzingo and Estelle Turbiville 2000. "ARCVIEW as a Tool for Computer Cartography". Proceedings of the International Geographic Information Systems Conference and Exposition June 23-27, 2000. San Diego, California.

Leipnik Mark R. 1999. "GIS Use by Texas Police Agencies a Survey of the Top 100 Police Departments" Proceedings of the International Geographic Information Systems Conference and Exposition. July 16-20, 1999. San Diego, California.

Leipnik, Mark R., Sanjay S. Mehta, and Balasundram Maniam 1999, "Application of Geographic Information System to Small Businesses," Proceedings of the World Conference on International Entrepreneurship, Singapore, August 15-18.

Mehta, Sanjay S., Mark Leipnik, and Balasundram Maniam 1999, "Using Geographic Information Systems in Franchising," Proceedings of the 13<sup>th</sup> Annual Society of Franchising Conference, Miami Beach, FL, March 6-7.

Leipnik, Mark R. 1999. "Watershed Studies and Flood Alert System for Fort Hood, Texas" Proceedings of the Texas Academy of Sciences 102<sup>nd</sup> Annual Meeting. March 5, 1999. Seguin, Texas.

Leipnik, Mark R. 1997. "Geographic Information System Based Spatial Analysis for Improved Environmental Management." Proceedings of the Texas Academy of Sciences Centennial Meeting. March 7-8, 1997. Sam Houston State University. Huntsville Texas.

Leipnik, Mark R. and Chris Berry 1997. "Integration of GIS with Hydrologic and Meteorologic Data from an Interactive CD ROM for the Guadalupe River Watershed, Texas." Proceedings of the American Water Resources Association Annual Meeting. September 15-18, 1997. Denver, Colorado.

Leipnik, Mark R. 1996. "Visualization of Subsurface Hydrocarbon Contamination." Proceedings of the 52<sup>nd</sup> Annual Meeting, Southwest Section American Chemical Society, October 18, 1996. Houston, Texas.

Leipnik, Mark R., Ireen Perry and Poonam Shrestha 1996. "GIS based Analysis of Historical and Current Forest Composition in East Texas." Proceedings of the Big Thicket Science Conference.

October 11, 1996. Beaumont, Texas.

Leipnik, Mark. R. and Richard Rush. 1996. Environmental Assessment, Restoration Applications of GIS at Defense Department Facilities". Proceedings of the Intergraph Users Group Conference, Workshop and Exposition. New Orleans, LA. September 25, 1996. Published by Intergraph Corporation, Huntsville, AL.

Leipnik, Mark R. 1991. GIS for Water Resources Management. Proceedings of the American Society of Civil Engineers Water Resources Planning and Management Conference, April 1991. New Orleans, LA. Published by the American Society of Civil Engineers. New York.

### **Peer-Review Presentations/Posters**

Leipnik, Mark R. and Mark Delarosa, Jerry Stephens and Tennille Green 2001. GIS for Maps Crime and Auto Accidents in Huntsville, Texas. Poster paper. 5th Annual Crime Mapping Research Conference. Dallas, Texas December 1-4,

Metha, Sanjay, Balasundram Maniam and Mark Leipnik 2000. Strategies for Teaching Marketing Research" Marketing Management Association Annual Meeting. September 18-19, 2000. Saint Louis, Mo.

Leipnik, Mark R., Donald Albert, Andrea Glazebrook, Kerry Monzingo and Estelle Turbiville 2000. ARCVIEW as a Tool for Computer Cartography". Environmental Systems Research Institute International Geographic Information Systems Conference and Exposition. June 23-27, 2000. San Diego, California.

Leipnik, Mark R. 1999. Flood History and Stream Flow Measurement in Harmon Creek, Texas Flood Alert Association, Southwest Region, Annual Meeting, July 9, 1999. Houston, Texas.

Leipnik, Mark R. 1999 Fort Hood Watershed Studies Design U.S. Army Corps of Engineers Land Resource Management Program Conference. April 5, 2000, 1999. Killeen, Texas.

Leipnik, Mark R. and Jefferey Jorgeson 1999. Fort Hood Watershed and Stream Stage Monitoring Effort U.S. Army Corps of Engineers Land Management System Conference. March 10-12 1999. Killeen, Texas.

Leipnik, Mark R 1998. Use of Texas GIS Data in Teaching Geographic Concepts Texas Alliance for Geographic Education 10th Annual Meeting, Feb.15, 1998. Bellaire, Texas.

Leipnik, Mark R., and Derek Paulsen 1997. GIS Based Analysis of Demographic Factors Related to Occurrence of Homicides over a Ten-Year Period in Houston, Texas Exploring the Future of Crime Mapping, a National Symposium on the Use of GIS in



Criminal Justice Research and Practice. October 5-7, 1997. Denver, Colorado.

Leipnik, Mark R. and Chris Berry 1997. Integration of GIS with Hydrologic and Meteorologic Data from an Interactive CD ROM for the Guadalupe River Watershed, Texas. American Water Resources Association Annual Meeting. September 15-18, 1997. Denver, Colorado.

Leipnik, Mark R 1997. GIS for Environmental and Earth Sciences Education in High Schools. Texas Alliance for Geographic Education, 9th Annual Meeting. Feb.15, 1997. Tomball, Texas.

Leipnik, Mark R 1996. Visualization of Subsurface Hydrocarbon Contamination. 52nd Annual Meeting, Southwest Section American Chemical Society, October 18, 1996. Houston, Texas.

Leipnik, Mark R 1994. GIS for Water Resources Management 14th Annual Nevada Water Resources Conference. Winner \$500 award for best student paper. March 17, 1994. Las Vegas, NV.

Leipnik, Mark R 1993. A Spatial Decision Support System for Environmental Restoration 4th Annual Nevada State GIS Conference, Dec.5-8, 1993. Las Vegas, NV.

Leipnik, Mark R 1993. Environmental Restoration Spatial Decision Support System. Second International Conference on the Integration of GIS and Environmental Modeling. Sept. 24-28 1993. Breckenridge, CO.

Environmental Management with Spatial Decision Support Systems. 1st Annual Department of the Interior Hazardous Materials Management Conference. June 4-6 1993. Denver, CO.

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Leipnik, Mark R 1993. Implementation of GIS for Resources Management in the Grand Canyon and on Adjacent Lands of the Hualapai Indian Reservation Grand Canyon Environmental Studies Conference. March 17, 1993. Flagstaff, AZ.

Leipnik, Mark R 1993. GIS for Environmental Management 27th Annual Arizona-Nevada Academy of Sciences, Annual Meeting. March 4-7, 1993. Las Vegas, NV.

Leipnik, Mark R 1993. Water Resources Management with GIS Southern Nevada Water Authority Research Seminar Series January 17, 1993. Las Vegas, NV.

Leipnik, Mark R 1992. GIS for Soil Mapping and Management Soil Science Society of America, Annual Meeting. October, 12-15, 1992. Santa Barbara, CA.

Leipnik, Mark R 1991. GIS for Groundwater Protection. GIS and Environmental Modeling Conference. September 16-20, 1991. Boulder, CO.

Leipnik, Mark R and Douglass Simms 1996. Assessing the Impact on Water Resources of Heavy Metals from the World's Largest Manganese Mine; The Three Kids Mine and Mill Site, Henderson, NV. Proceedings: 16<sup>th</sup> Annual Nevada Water Resources Management Conference. Feb. 13-14, Las Vegas, NV.

Leipnik, Mark R. 1993. GIS & Geo-Scientific Visualization for Environmental Restoration. Proceedings of the 2<sup>nd</sup> International Conference/Workshop on the Integration of GIS and Environmental Modeling. September 1993, Breckenridge, CO.

Leipnik, Mark R. 1991. GIS for Groundwater Modeling and Protection. Proceedings Of the 1st International Conference/workshop on the Integration of GIS and Environmental Modeling. September, 1991. Published by the NCGIA, Santa Barbara, CA.

### **Funded External Grants**

Development of Interactive web-based maps for Tourism and Economic Development. From Huntsville/Walker County Economic Development Program Office. Grant for \$2,500 to Mark R. Leipnik and Parselvan Aravazhi for January –May 2007.

Watershed Studies in the Rio Grande Basin. U.S. Department of Agriculture research grant. For: Subcontract for \$150,000 to Sam Houston State University, Principle Investigators: Justin Williams Department of Biology, Mark Leipnik, William Lutterschmidt and Andy Williams; Co-Principle Investigators. Proposed Start Date May, 2003, contract runs through December 2006. Subcontract from Texas State University System, administered by Sul Ross State University from a \$1.6 million.

Baseline Water Quality Study of Texas Army National Guard Training Facilities. From Texas Army National Guard, Office of Adjutant General, Austin, Texas. For: Contract for \$138,000 to Department of Geography and Geology SHSU Principle Investigator: Mark R. Leipnik with assistance of Thomas Chasteen, Department of Chemistry. Proposed Start date October 1, 2003 actual start date Feb. 1, 2004, through December 2006.

Land Management System and Geo-spatial Data Repository Development and Evaluation at Fort Hood, Texas. U.S. Army Corps of Engineers, Engineering Research and Development Center. Construction Engineering Research Lab, Campaigne Illinois. 2001-2002. Contract for \$252,024 from U.S. Army Corps of Engineers, Engineering Research and Development Center. To Gary

Smith and Mark Leipnik, CO-P.I.'s.

Integrated Watershed Modeling and Land Management System Related Activities at Fort Hood, Texas. U.S. Army Corps of Engineers, Engineering Research and Development Center. Coastal and Hydraulics Laboratory Watershed Experiment Station. Vicksburg, Mississippi. 2000-2001. Contract for \$269,320. From U.S. Army Corps of Engineers, Engineering Research and Development Center. To Mark R. Leipnik and Robert Lane CO-P.I.'s.

Hydrologic Investigations; Including Stream Stage and Soil Moisture Monitoring and GIS Development and Development of Data Linkages with Watershed Management Models and Land Management Systems at Fort Hood, Texas. Effective 1998-2000. Contract for \$416,108. From U.S. Army Corps of Engineers, Waterways Experiment Station, Vicksburg Mississippi. To Mark Leipnik and Cecil Hallum Co-PI's.

Geographic Information Systems-Based Mapping of TXANG Training Areas. October 1997-October 1998. Contract for \$25,000. To Texas Research Institute for Environmental Studies, Mark R. Leipnik, P.I. From Texas Army National Guard.

GIS/GPS use in Community Oriented Policing research. Grant of \$1,500. To Mark R. Leipnik from Geographic Information Technologies Association. 1999.

Use of Geo-spatial Technologies in Environmental Education. Grant of \$492,000. Grant was made to the East Texas Consortium for Environmental Education consisting of Trinity, Onalaska, Shepard, Goodrich and Coldspring Independent School Districts. Mark Leipnik, principle author of grant application, advisor on implementation for GIS and GPS for facilitating environmental education. Grant from the Texas Infrastructure Fund. 1998-2000.

Development of a GIS based spatial decision support system for environmental remediation at Vandenberg AFB, California. Cooperative Agreement for \$130,000. From U.S. Department of the Interior, Bureau of Reclamation. To the Environmental GIS Lab at the University of California Santa Barbara for Awarded to support dissertation research project. 1992.

### **Work or Professional Experiences**

1996-Present, Associate Professor, Department of Geography & Geology, Director, GIS Lab of the Texas Research Institute for Environmental Studies. (1996-2002). Sam Houston State University.

1992-1996. Physical Scientist GIS Specialist, Program Coordinator & Project Leader. U.S. Department of the Interior. Regional Environmental Division, Boulder City, NV.

1995-1996. GIS Consultant. City of Boulder City, Nevada. Public Works Department.. April 1995-May 1996. Responsible for development of municipal Arc/Info based GIS covering 120,000 acres within City limits. Responsible for GIS development and implementation.

1988-1992. GIS Project Leader, Environmental Monitoring Lab. UCSB.

1990-1991 Consultant Balance Hydrologics.

1987-1988. Environmental/GIS Consultant. Santa Barbara County Department of Environmental Health.

1986. Researcher, Monsanto.

### **Honors and Awards**

Nomination for Outstanding Faculty Research Award, Sam Houston State University. 2003.

Special Recognition Award for Outstanding Contribution to the College of Arts and Sciences, Sam Houston State University. 2001.

Star Award \$1000 from U.S. Department of Interior for outstanding service resulting in savings to Federal Government of \$11 million on closure of the Henderson Landfill, Henderson, Nevada. December 1997.

Adjunct Faculty Member, Geosciences Department. University of Nevada, Las Vegas. Committee member for three Masters Degree students 1996-1997.

Letter of Commendation from Assistant Secretary of the Interior for Environmental Affairs. July 1993.

### **Other Competencies**

ArcGIS 9.0 Training 1 week Houston, Texas, May 2004.

ArcGIS 8.3 Training 1 week Redlands, California, July, 2003.

Unexploded Ordinance Safety Training, U.S. Army Range Control Office, 4 hours. Ft. Hood, Texas, April 2001.

Academic Advisement Retreat and Workshop. 1 day. Waterwood, Texas. 1997.

Urban Watch Environmental Monitoring training 1 day. Huntsville, Texas. 1997.

Federal Contracting Officer Training, 1 week, Sacramento, California. 1996.

ESRI Arc/Info GIS training 1 Week, Redlands, California, 1995.

Phase 1 ASTM Hazardous Waste Site Assessment Training 3 days. Boulder City, NV, 1994.

Technical writing 1 week. Boulder City, NV, 1994.

Intermediate UNIX training 1 week, Boulder City, NV 1993.

UNIX workstation System Administrator training. 1 week. Boulder City, NV, 1993.

ORACLE RDBMS training 1 week, Albuquerque, NM, 1993.

Intergraph Microstation CAD training 1 week, Irvine CA 1990.

Intergraph MGE GIS training 1 week, Irvine, California 1990.

Sun workstation UNIX training 1 week, UCSB 1990.

Annual 8 hours Hazardous Materials Training 1991-1995 at UCLA and Boulder City, NV.

40 hours Hazardous Waste Site Worker Training UCLA, 1990.