

KENNETH L. McMANIS, Ph.D., P.E., P.L.S.  
Civil Engineering Department  
University of Louisiana at Lafayette  
P.O. Box 42291  
Lafayette, LA 70504-2291  
Office: (337) 482-6512  
Fax: (337) 482-6688  
[kxm8888@louisiana.edu](mailto:kxm8888@louisiana.edu)

**Professional Preparation:**

|                            |   |            |
|----------------------------|---|------------|
| University of Louisiana    | Civil Engineering                               | BS 1963    |
| Louisiana State University | Civil Engineering                               | MS 1966    |
| Louisiana State University | Civil Engineering<br>(Geotechnical Engineering) | Ph.D. 1975 |

**Appointments:**

|                        |  |
|------------------------|--|
| 2006 -                 | Professor & Department Head<br>Civil Engineering Department<br>University of Louisiana, Lafayette, LA  |
| 2004 -                 | UNO Emeritus Professor and Chair/ Private Consulting   |
| 1994-2004              | Contractors Educational Trust Fund Professorship   |
| 1978-2004              | Chairman, Department of Civil & Envir. Engineering   |
| 1990-2004              | Director, Schlieder Urban Environmental Systems Center   |
| 1995-2003              | Director, Maritime Environmental Resources Information<br>Center, Gulf Coast Region Maritime Technology Center<br>University of New Orleans, New Orleans, LA |
| 1981-84<br>(Part time) | Systems & Programming Section<br>New Orleans District Corps of Engineers   |
| 1974-79                | Dean, Engineering & Industrial Technology Division   |
| 1969-78                | Chairman & Prof., Arch. & Civil Engineering Technology<br>Arch. & Civil Engineering Technology<br>Delgado Community College, New Orleans, LA                 |
| 1971-74                | Research Associate/Assistant, Engineering Research<br>Louisiana State University, Baton Rouge LA   |
| 1966-68                | Design Civil Engineer<br>Fromherz Engineers, Inc. & W. S. Nelson, Engrs. Inc.<br>New Orleans, LA   |
| 1963-66                | Production Engineer<br>Mobil Oil Co., Morgan City, LA  |

**Publications:**

- X. Sun, Y. He, A. Rahman, and K. McManis, "Safety of Roundabout: the Details Matter", Compendium of TRB 98<sup>th</sup> Annual Meeting, 2018
- Kenneth McManis, "How the Civil Engineering BOK2 can be Implemented at the University of Louisiana," *Proceeding of the 2009 ASEE Annual Conference*, June 20-23, 2010, Louisville, KY
- Fridley, K.J., Hall, K. Sutterer, K. Larson, Larson, D., Alleman J. , McManis, K., Bardet, J.P., Gunnick, B. List, G., Smith, R., and T. Lenox. 2009. Educating the Future Civil Engineering for the New Civil Engineering Body of Knowledge," *Proceeding of the 2009 ASEE Annual Conference*, June 2009, Austin, TX.

- Ranjan Satyamurthy, Mysore S. Nataraj, Kenneth L. McManis, and Gordon P. Boutwell, "Investigations of Pile Foundations in Brownfields," ASCE Journal of Geotechnical and Geoenvironment Engineering ( JGGE), Volume 134, pp 1469-1475, October 2008..
- Bhaskar Kura, Kenneth L. McManis, Kurt Wilson, Amitdyute Sengupta, and Mairice Falk, "Waste Management after Katrina: Technical, Economical and Managerial Issues in New Orleans and the Gulf Coast,"AWMA 99<sup>th</sup> Annual Conference & Exhibition, Air Waste Management Association, New Orleans, LA, June 20-23, 2006, 13 pages
- Ricardo C. de Abreu , Kenneth L. McManis , and Gordon P. Boutwell, "A New Model for Immediate Settlement Predictions in Landfills," International Conference for Soil Mechanics and Geotechnical Engineering, Osaka, Japan, Sept. 12-16, 2005, pp 2233-2236.
- M.S. Nataraj, G.P. Boutwell, and K.L. McManis, "Selected Cases in Slope Stability," GEOPRACTICE – 2005, National Conference on Case Studies in Geotechnical Engineering, July 25-26, 2005. Interline Publishing, Bangalore, India, pp 25-34
- Gordon P. Boutwell, Kenneth L. McManis, Mysore S. Nataraj, and Ranjan Satyamurthy, "Installation of Driven Piles in Brownfields Sites," 2005 PDCA Winter Roundtable, Pile Driving Contractors Association, Charleston, S.C., February 19, 2005.
- Ricardo C. de Abreu, Ph.D., Enrique J. La Motta, Ph.D., Kenneth L. McManis, "Facultative Landfill Bioreactors (FLB): Results of a Pilot-Scale Study," Proceedings of the Geo-Frontier Conference, ASCE Geo-Institute, January 10-12, 2005
- Gordon P. Boutwell, M.S. Nataraj, and Kenneth L. McManis, "Pile Foundations -An Environmental Problem?" *PILEDRIVER*, The Official Publication of the Pile Driving Contractor's Association, Fall 2004 , Vol. 1, No. 4, pp. 21-30.
- M.S. Nataraj, K.L. McManis, and G.P. Boutwell, "Some Problems in Geoenvironmental Technology," Invited Paper, Conference on Recent Advancements in Geoenvironmental Engineering, Indian Geotechnical Society, Bangalore, India, July 21-25, 2004
- Achleitner, Stefan; Berhard Wett, and Kenneth L. McManis, "Deep Foundations Penetrating Mineral Sealing Barriers: Impacts on Hydraulic Flow and Contaminant Transport," *Environmental Engineering Science*, Vol. 21, Number 2, Mary Ann Liebert, Inc. Publishers., February 2004, pages 231-240.
- McManis, K. L., "A Laboratory Evaluation of Modification and Stabilization Additives for Problematic Silt Soils,"2004 Louisiana Transportation Engineering Conference, Conference CD-ROM, Baton Rouge, February 18, 2004
- Barbu, B. G., K. L. McManis, and M. Nataraj, "Study of Silts Moisture Susceptibility Using Tube Suction Test," Transportation Research Board Annual 2004 Meeting, Compendium of Papers, Washington D.C., January 2004, 18 pages.
- Nataraj, M.S., K.L. McManis, and G.P. Boutwell, "Geosynthetics In Waste Management," Indian Geotechnical Conference, IGC-2002, *Proceedings*, Vol. 2, Allahabad, India, December 20-22, 2002, pp 731-734
- Abreu, Ricardo; E. J. La Motta, K. L. McManis, and C. Cadenas, "Facultative Landfill Bioreactors (FLB): A Pilot-Scale Study of Waste Stabilization, Landfill Gas Emissions, Leachate Treatment, and Landfill Geotechnical Properties,"18<sup>th</sup> International Conference on Solid Waste Technology and Management, Proceedings, Philadelphia, PA, 2003

- Barbu, B., K. McManis, and M. Nataraj, "Identification and Stabilization Methods for Problematic Silt Soils," 2002 Abstracts with Program, Vol 34, Number 2, March 2002, ISSN 0016-7592, page A-15, 51<sup>st</sup> Annual Meeting Southeastern Section and 36th Annual Meeting North-Central Section, Geological Society of America, Lexington, Kentucky, April 3-5, 2002.
- A. M. Emam, K. L. McManis, M.L. Tittlebaum, and B. Barkdoll, "Issues and Research Needs for the Wet-Cell Landfill Approach," World Water & Environmental Resources Congress, Environmental and Water Resource Institute (EWRI), Orlando, Fla., May 20-24, 2001.
- M. Nataraj, K. McManis, and G. Boutwell, "Vertical Expansion of Landfills," Experimental Geotechnics Keynote Lecture, Indian Geotechnical Conference, IGC-2000: The Millenium Conference, Proceedings, Bombay, India, December 14, 2000, pp 13-18
- G. Boutwell, M. Nataraj, and K. McManis, "Pile Foundations: An Environmental Problem?" The Louisiana Engineer, Journal of the Louisiana Section, ASCE, Vol. 9, No. 2, pp 5-24
- Boutwell, G.P., M.S. Nataraj, and K.L. McManis, "Deep Foundations on Brownfield Sites," Prague 2000, Proceedings of the 5<sup>th</sup> Conference on Environmental Problems in Eastern Europe, Prague, Czech Republic, October 2000.
- La Motta, Enrique, Kenneth McManis and Alim Hannoura, "Environmental Management Under Unplanned Urban Growth Case Study: The City of Guayaquil, Ecuador," Inter Build 2000, Proceedings 7<sup>th</sup> International Conference for Building and Construction, Cairo, Egypt, June 22-26, 2000 (pg 395-404)
- Alim Hannoura, Kenneth McManis and Mysore Nataraj, "Emerging Trends in Planning, Design, and Construction of solid Waste Landfills," Inter Build 2000, Proceedings 7<sup>th</sup> International Conference for Building and Construction, Cairo, Egypt, June 22-26, 2000 (pg 451-461)
- Alim Hannoura, Gianna Cothren and Kenneth McManis, "An Ecosystem Approach for Aquatic Systems Management and Restoration," Inter Build 2000, Proceedings 7<sup>th</sup> International Conference for Building and Construction, Cairo, Egypt, June 22-26, 2000 (pg 743-752)
- LaMotta, E., J. Josse, K. McManis, and A. Hannoura; "Academic Training in Environmental Engineering Through International Projects," 1998 Gulf-Southwest Annual Conference, American Society for Engineering Education, March 1998.
- Nataraj, M., A. Hannoura and K. McManis; "Research Contributions to the Undergraduate Classroom," 1998 Gulf-Southwest Annual Conference, American Society for Engineering Education, March 1998.
- Kura, B., A. Knecht, K. McManis, K. and R. Lea, "Comparison of Japanese and U.S. Environmental Regulations Impacting Shipbuilding," Journal of Ship Production, The Society of Naval Architects and Marine Engineers, August 1997, pp171-177.
- McManis, K. and M. Nataraj, "Characterization of Filter Cake Ash and Application for Soil Stabilization," Testing Soil Mixed with Waste or Recycled Materials, ASTM STP 1275, Mark A Wasemiller, Keith Hoddinott, Eds., American Society for Testing Materials, Philadelphia, 1997, pp 219-231
- Nataraj, M.S. and K.L. McManis, "Strength and Deformation Properties of Soils with Fibrillated Fibers," *Geosynthetics International*, Journal of the International Geosynthetics Society, Published by the Industrial Fabrics Association International, ISSN 1072-6349, Volume 4, No. 1, 1997, pages 65-79.
- Nataraj, M.S.; R.S. Maganti; and K.L. McManis; "Interface Frictional Characteristics of Geosynthetics," Indo-US

Workshop on Ground Improvement Using Geosynthetics, Technical Papers, Central Road Research Institute, New Delhi, India, March 26-28, 1997, pages 356-369.

- Nataraj, M. S., P. G. Hoadley and K. L. McManis, "Settlement and Bearing Capacity of Footings on Reinforced Sand," International Symposium on Earth Reinforcement, IS Kyushu '96, Fukushu, Japan, November 12-14, 1996, pp 635-640.
- Nataraj, M.S., V. Sinduvalli and K.L. McManis, "Simulation and Evaluation of Contaminant Transport from Waste Facilities," *Environmental Geotechnics*, Kamon (ed.), Balkema, Rotterdam. ISBN 90 5410 848 7, Proceedings of the Second International Congress on Environmental Geotechnics, IS-Osaka '96, Osaka, Japan, November 5-8, 1996, pp 275-280.
- Nataraj, M.S., V. Sinduvalli and K. L. McManis, "Evaluation of Leakage Rates and Pollutant Transport From Landfills," 3rd International Symposium on Environmental Geotechnology, San Diego, Calif., June 10-12, 1996, Technomic Publishing Co., Inc., Lancaster Penn., pp 272-281.
- Nataraj, M.S., H. R. Abdula and K. L. McManis, "Strength and Deformation Characteristics of Fiber Reinforced Soils," 3rd International Symposium on Environmental Geotechnology, San Diego, Calif., June 10-12, 1996, Technomic Publishing Co., Inc., Lancaster, PA., pp 826-835.
- LaMotta, E., W. Reid Lea and K. McManis, "Case Study of an International Environmental Education Project," Environmental Engineering Education and Training, Wessex Institute of Technology, Computational Mechanics Publications, Southampton, UK, April 1996, pp 75-85.
- McManis, Kenneth L., Enrique La Motta and Reid Lea, "A New Paradigm for International Projects and Education," Proceedings, 1996 Annual Meeting of the Gulf Southwest Section of ASCE, San Antonio, Texas, March 27-29, 1996, pp 105-110
- Kura, B., A. Knecht, K. McManis and W. R. Lea, "Environmental Compliance by Japanese Shipyards," Proceedings of the 1996 Ship Production Symposium, The Society of Naval Architects and Marine Engineers, San Diego, Calif., February 14-16, 1996, pp 156-160.
- Kura, B., W. R. Lea, A. Knecht and K. McManis, "Risk Analysis of the TRI Emissions from the Shipbuilding, Repair, and Maintenance Industry," Proceedings of the 1996 Ship Production Symposium, The Society of Naval Architects and Marine Engineers, San Diego, Calif., February 14-16, 1996, pp. 1-6.
- Kura, B., K. McManis, and J. Crisp, "Environmental Research Efforts by the Gulf Coast Region Maritime Technology Center (GCRMTC)," MARIENV'95, Proceedings, Vol. 2, International Conference on Technologies for Marine Environment Preservation, Society of Naval Architects of Japan, Tokyo, Japan, September 24-29, 1995, pp 548-554
- Kura, B., K. McManis, and M. Tittlebaum, "MRPF Technology for Management of Organic Pollution of Coastal and Bay Waters," Proceedings, Vol 1, MARIENV'95, International Conference on Technologies for Marine Environment Preservation, Society of Naval Architects of Japan, Tokyo, Japan, September 24-29, 1995, pp 396-401
- Kura, B., K. McManis, M. Kura and M. Tittlebaum, "In-Situ Bioremediation for Oil Spill Management Using Enzyme Products," MARIENC'95, Proceedings, Vol. 1, International Conference on Technologies for Marine Environment Preservation, Society of Naval Architects of Japan, Tokyo, Japan, September 24-29, 1995, pp 373-378
- Kura, B., McManis, K., and Crisp, J. N., "Environmental Research Efforts by the Gulf Coast Region Maritime Technology Center (GCRMTC)," Proceedings of International Conference on Technologies for Marine Environment Preservation, Tokyo, Japan, Sept 20-29, 1995, pp.548-554.

- McManis, K. L. and D. Lourie, "Issues and Techniques for Sampling Overconsolidated Clays," Transportation Research Record No. 1479, Transportation Research Board, Washington, D.C., July 1995, pp 7-16.
- Lea, W. R., B. Kura and K. McManis, "A Toxicity-Mass-Persistence Model for Assessing Potential Human and Environmental Risk from PAH Releases as Reported in the Toxic Release Inventory," *Risk Assessment of PAHs in the Environment*, U.S. Environmental Protection Agency, San Francisco, California, June 26-28, 1995.
- Lea, W. R., B. Kura, K. McManis and R. Alexander, "Comparative Risk Analysis of the TRI Data as an Environmental Indicator - A Louisiana Case Study," 88th Annual Meeting and Exhibition, Air & Waste Management Association, San Antonio, Texas, June 18-23, 1995, Vol II, pp.TA43.02/1-17..
- Nataraj, M. and K. McManis, "Computer Assisted Learning and Teaching of Geosynthetics," Second ASCE Congress for Computing in Civil Engineering, Proceedings and Presentation, Atlanta, GA., June 5-7, 1995, pp 1015-1022.
- Nataraj, M. S., R. S. Maganti and K. L. McManis, "Interface Frictional Characteristics of Geosynthetics," Geosynthetics '95', Industrial Fabric Association International, Nashville, TN, February 21-23, 1995, pp 1057-1069
- Hannoura, A., K. McManis and M. Nataraj, "Nonlinearity Effects on Leachate Movement in Landfills," The Tenth International Conference on Solid Waste Management, Philadelphia, PA, November 13-16, 1994, Section 6b (7 pages).
- McManis, K., S. Nolan, R. Batherson, G. Chifici, "Nimby, Wetlands, and Public Participation: Identifying a Landfill Site in New Orleans," The Eighth International Conference on Solid Waste Management and Secondary Materials, Philadelphia, Pennsylvania, November 15 - 18, 1992, Section 5B (8 pages).
- Nataraj, M. S. and K. L. McManis, "Comparison of Three Slope Stability Programs," Proceedings of the 11th National Conference on Microcomputers in Civil Engineering, Orlando, Florida, November 9 & 10, 1992, pp 45-49.
- McManis, K. L. and M. S. Nataraj, "The Influence of Post Depositional Effects on the Engineering Properties of a Marine Clay," 43rd Highway Geology Symposium, Fayetteville, Arkansas, August 19-21, 1992, pp 25-36.
- M.S. Nataraj, and K. L. McManis, "Computer Assisted Learning and Teaching of Geotechnical Engineering," Proceedings of the Second Canadian Conference on Computing in Civil Engineering, August 5-7, 1992, pp 709-719.
- Nataraj, M.S. and K. L. McManis, "Use of Geotechnical Laboratory In Undergraduate Teaching," Creativity Educating World-Class Engineers, Conference Proceedings, American Society for Engineering Education, Toledo, Ohio, June 1992, pp 480-485.
- Nataraj, M.S. and K. L. McManis, "Geotechnical Engineering for Waste Management: Design of a Course Using Principles of Education," Mediterranean Conference on Environmental Geotechnology, Cesme, Turkey, May 25-27, 1992, pp 185-191
- Nataraj, M.S. and K. L. McManis, "Application of Principles of Soil and Rock Mechanics in Radioactive Waste Disposal," Mediterranean Conference on Environmental Geotechnology, Cesme, Turkey, May 25-27, 1992, pp 185-191.
- Nataraj, M. S., K. L. McManis, and P. Bijhower, "Use of Personal Computers in Geotechnical Engineering as

- an Education and Research Experience;" Proceedings of 9th National Conference on Microcomputers in Civil Engineering; October 30 - 31, 1991, pp 74-78.
- McManis, K. L. and A. Arman, "Class C Fly Ash as a Full or Partial Replacement for Portland Cement or Lime," Transportation Research Record 1219, Transportation Research Board, Washington, D. C., January 1989, pp 68-81.
- Folse, M. D., K. L. McManis, and J. S. Elias, "LA DOTD Study of Dynamic Methods of Predicting Pile Axial Load Capacity," Transportation Research Record 1219, Transportation Research Board, Washington, D.C., January 1989, pp 13-20.
- McManis, K. L., Discussion of "Analysis of Compressibility of Sensitive Soils," Journal of Geotechnical Engineering, American Society of Civil Engineers, January 1992, pp 165-168
- McManis, K. L., "The Relevance of Engineering Education," Louisiana Engineer, Louisiana Engineering Society and the Journal of the Louisiana State Board of Registration for Professional Engineers and Land Surveyors, June, 1981, pp 6-18.
- McManis, K. L., R. Ferrell, Jr. and A. Arman, "Interpreting the Physical Properties of a Clay Using Microanalysis Techniques," abstracted in TR News, Transportation Research Board, Number 114, Sept.-Oct. 1984, pp 74 (Selected for general interest and entered in the TRB computer-based information storage and retrieval services).
- Jolissaint, R. L. and K. L. McManis, "Conventional Sheet Pile Analysis in Multilayered Soils," Proceedings of the 4th National Conference on Microcomputers in Civil Engineering, Orlando, Florida, November 1986, pp 31-35.
- McManis, K. L. and A. Arman, "An Analysis of Sampling and Testing in Stiff Crustal Clays," Geotechnical Special Publication No. 2, Geotechnical Aspects of Stiff and Hard Clays, American Society of Civil Engineers, Seattle, Washington, April 1986, pp 1-13.
- Jolissaint, R. L. and K. L. McManis, "System Enhancements for a Slope Stability Analysis." Proceedings of the 3rd National Conference on Microcomputers in Civil Engineering, Orlando, Florida, November 1985, 5 pages.
- McManis, K. L., R. Ferrell, Jr., and A. Arman, "Interpreting the Physical Properties of a Clay Using Microanalysis Techniques," Geotechnical Testing Journal, American Society for Testing and Materials, June 1983, 87-92.
- Arman, A. and K. L. McManis, "Quality of Thin Wall Tube Samples," Proceedings of the Engineering Foundation Conference On Updating In-Situ Testing and Sampling Techniques, Santa Barbara, California, December 1981, pp 75-93. (invited)
- McManis, K. L. and A. Arman, "Evaluation of Design Parameters Obtained by Conventional Sampling," Proceedings of Seventh European Conference on Soil Mechanics and Foundation Engineering, Brighton, England, September 1979, 7 pages.
- A. Arman, and K. L. McManis, "Effects of Storage and Extrusion on Sample Properties," Soil Specimen Preparation for Laboratory Testing, ASTM SPT 599, June 1975, pp 66-87.

## 2. TECHNICAL REPORTS & OTHER

McManis, K., "Contaminant Risk Assessment for Pile Foundations at the I-10 Calcasieu River Bridge and Sampson

- Street Interchange,” DOTD vs. ConocoPhillips & Sasol North American, Inc., 14<sup>th</sup> JDC No. 2008-2684, Div. “B,” Calcasieu Parish, May 14, 2012
- K. McManis, “Potential for Contaminant Transport Due to Piling at Dow Chemical Co. – Plaquemines, La.,” Porter Taylor Attorneys for Dow Chemical Co., September 2010
- E. J. LaMotta, K. L. McManis, R. De Abreu, C. Cadenas, M. Peterson, M.E. Pulido, “Removal of Leachate Contaminates and Stabilization of Municipal Solid Waste Using a Facultative Bioreactor System,” Final Report, Schlieder Urban Environmental Systems Center (SUESC), EPA Grant No R827933-01-0, June 2004.
- K. McManis, “Identification and Stabilization Methods for Problematic Silt Soils: A Laboratory Evaluation of Modification and Stabilization Additives,” FHWA/LA.02/357, July, 2003
- K. McManis, M. Nataraj, G. Boutwell, and D. Debnath, “Issues involving the Vertical Expansion of Landfills,” Research Report No.2002-02, EPA Project No R825427-01-0, Urban Waste Management & Research Center/Schlieder Urban Environmental Systems Center, University of New Orleans, May 2002
- K. McManis, G. Boutwell, M. Nataraj, and S. Achleitner, “Deep Foundations in Grayfields,” Research Report No. 2002-01, EPA Grant No. R825427-01-0, Urban Waste Management and Research Center/Schlieder Urban Environmental Systems Center, University of New Orleans, April 2002.
- K. McManis, M. Nataraj, and B. Barbu, “Identification and Stabilization Methods for Problematic Silt Soils” FHWA/LA.02/357, Louisiana Transportation Research Center Report No. 357, March 31, 2001.
- K. McManis, M. Nataraj and A. Knecht, “Tire Monofill Liner/Leachate Compatibility,” UWMRC Special Project Report Number 97-03C, Urban Waste Management and Research Center, University of New Orleans, September 15, 1997, 31 pages.
- A. F. Daech, K.L. McManis, N.K. Sarkar, and Li Li, “Inexpensive Non-Toxic Pigment Substitute for Chromium in Primer for Aluminum Substrate,” GCRMTC Research Project No. 1, Gulf Coast Region Maritime Technology Center, University of New Orleans, January 31, 1997, 39 pages.
- K. McManis, “A Review of the Delgado Community College Programs in Architectural Engineering Technology, Civil Engineering Technology, and Construction Engineering Technology,” Prepared for Delgado Community College, August 16, 1996, 38 pages
- W.R. Lea, K. McManis and M. Nataraj, “Cursory Review of the Jefferson Parish Sanitary Landfill Specifications,” Technical Report 97-01, Urban Waste Management and Research Center, University of New Orleans, August 14, 1996, 10 pages.
- B. Kura, Lea, W.R., Knecht, A.T., and McManis, Kenneth, “Risk analysis of emissions from the shipyard industry,” ERIC’s News Letter, Vol. 1, No. 1, Spring 1996.
- G. Boutwell, K. L. McManis and M. Nataraj, “Field Measurements of Infiltration Rates,” Research Report No. 95-12, Urban Waste Management & Research Center, University of New Orleans, June 30, 1995, 75 pages.
- Alexander, R. H., W. R. Lea, K. McManis, B. Kura, and A. Knecht, “A Risk Analysis of the Louisiana Toxic Release Inventory Data as an Environmental Indicator,” Research Report No. 95-11, Urban Waste Management and Research Center, University of New Orleans, May 1995.
- Hackett, J. W., M. Folse, and K. McManis, **Mechanics of Materials Laboratory Manual**, Published by University of New Orleans Department of Civil and Environmental Engineering, Fall 1994.

- R. Lea and K. McManis, "Regional Solid Waste Management," Technical Report 95-01, Urban Waste Management and Research Center, University of New Orleans, December 1994.
- McManis, K.L., M. Nataraj and G. M. Phillips, "Long Term Evaluation and Identification of the Proper Testing Program for ASTM Class C Fly Ash Stabilized Soils," FHWA/LA -94/281, Louisiana Transportation Research Center, Louisiana Department of Transportation and Development, April 1994.
- McManis, K.L. et.al, "Recycling Incinerator Ash, Chevron Chemical Company, Oak Point Plant, Belle Chasse, Louisiana," Interim Report Phase 2, Research Report 93-23, Urban Waste Management and Research Center, University of New Orleans, December 31, 1993, 57 pages.
- McManis, K. L. and J. N. Crisp, "Recycling Incinerator, Ash Chevron Chemical Plant, Oak Point Plant, Belle Chasse, Louisiana," Final Report Phase I, Research Report 92-11, Urban Waste Management and Research Center, University of New Orleans, December 31, 1992, 103 pages.
- Lea, W.R., M. Tittlebaum, K. McManis and R. Kowalewski, "Regional Solid Waste Management Study, Preliminary Report for St. John Parish," Technical Report 94-07, Urban Waste Management & Research Center, University of New Orleans, September 1994.
- Lea, W.R., M. Tittlebaum, K. McManis, and R. Kowalewski, "Regional Solid Waste Management Study, Preliminary Report for St. James Parish," Technical Report 94-09, Urban Waste Management and Research Center, University of New Orleans, September 1994.
- Lea, W., M. Tittlebaum, K. McManis and R. Kowalewski, "Regional Solid Waste Management Study, Preliminary Report for St. Charles Parish," Technical Report 94-11, Urban Waste Management and Research Center, September 1994.
- McManis, K. L., "Metro-Vision Solid Waste Survey for Metro New Orleans and the River Parishes," Interim Report to Metro-Vision Solid Waste Subcommittee, Urban Waste Management and Research Center, University of New Orleans, October 1992, 50 pages.
- Knecht T., K. L. McManis, K. L. and H. Hewitt, (Contributors), Blakely, W., and King, W., "Regional Solid Waste Management Strategy for Michoud Assembly Facility," Research Report No. 92-07, Urban Waste Management and Research Center, University of New Orleans, July 1992, 66 pages.
- Knecht, A. T.; K. L. McManis, and H. Hewitt (Contributors), Blakely, W.; and King, W.; "Regional Solid Waste Management Strategy for Jefferson, Orleans and St. Bernard Parishes, Louisiana," Research Report 92-06, Urban Waste Management and Research Center, University of New Orleans, June 1992, 104 pages.
- McManis, K. L. , Chairman; "Landfill Siting Study - Final Report," City of New Orleans, Public Advisory Committee, May 1992, 10 pages.
- Nataraj, M. and K. L. McManis, "Development of a Course: Geotechnical Engineering for Waste Management," Conference Proceedings, 1992 ASCE Spring Meeting, April 24-25, pages 70-74.
- McManis, K.L. (Editor), "State of 'Sanitary Emergency' in Guayaquil, Ecuador - Final Report," Urban Waste Management and Research Center, Technical Report 91-01, University of New Orleans, July 1991.
- Folse, M. D., K. L. McManis, and J. S. Elias, "Evaluation of Dynamic Methods for Pile Axial Capacity Predictions," Conference Proceedings, ASCE Spring Meeting of Louisiana and Mississippi Sections, Lafayette, La., April 1989, pp 95-105.



McManis, K. L., M. Folse and J. Elias, "Determining Pile Bearing by Methods Other Than the Engineering News Record Formula," FHWA/LA -89/234, Louisiana Project No. 736-12-73, Louisiana Transportation Research Center, LTRC Project No. 88-3GT(B), December 1989, 118 pages.

McManis, K. L., "Laboratory Evaluation of Fly Ash Treated Embankment and Base Material," Louisiana State Project No. 736-13-44, Louisiana Transportation Research Center, LTRC Project No. 88-1S(B), April 1987, 129 pages.

McManis, K. L. and R. L. Jolissaint, "Settlement Analyses With Incremental, Controlled Gradient and Constant Rate of Strain Load Tests," Report No FHWA/LA/UNO 84-1, La. HPR Study No. 83-1G, Louisiana Department of Transportation and Development, Baton Rouge, May 1984, 157 pages.

Hannoura, A. and K. L. McManis, "Hydraulic Conductivity of Rockfill: Volume I & II," UNO Civil Engineering Research Report prepare for U.S. Department of the Interior, Louisiana Water Resources Research Institute, July & August 1983, 142 pages.

McManis, K. L. Chairman, et. al., Standard II Committee, "Organization and Administration," University of New Orleans Self-Study, 1983, 310 pages.

Arman, A. and K. L. McManis, "The Effects of Conventional Soil Sampling Methods on the Engineering Properties of Cohesive Soils in Louisiana," L.S.U. Engineering Research Bulletin No. 117, Louisiana State Project No. 736-01-58, Louisiana HPR-75-C, July 1977.

### 3. CREATIVE OR OTHER CONTRIBUTIONS>

(Exhibits, performances, productions, compositions, software, etc.)

Corps of Engineers - New Orleans District  
Development of computer programs (1984-88) as follows:

"PILE LOAD-DISPLACEMENT PROGRAM," graphics presentation of soil profile, pile driving record and analysis of test pile load-displacement curves.

"GENERAL BORING LOG PROGRAM," modifications of general boring log program for deep profiles, title block changes, data editing and previewing on Tektronix terminals prior to obtaining hard copy. Development of macro system for interactive use of program options.

"UNDISTURBED BORING LOG PROGRAM," modifications of the undisturbed boring log for breaking a deep boring into two drawings, reading an amended file that includes additional testing (classification, Atterbergs, triaxial, direct shear, etc.), scale revisions, note changes, title block, preview editing on Tektronix terminals prior to obtaining hard copy. Development of macro for interactive use of program options.

### 4. OTHER PARTICIPATION/PRESENTATIONS AT PROFESSIONAL MEETINGS.

McManis, K.L., "Fulfilling the CE BOK2 – Case Studies," Panel Member, *2009 ASEE Annual Conference*, June 20-23, 2010, Louisville, KY

McManis, K. L., "A Laboratory Evaluation of Modification and Stabilization Additives for Problematic Silt Soils," Presented at 2004 Louisiana Transportation Engineering Conference, Baton Rouge, February 18, 2004

McManis, K. L. and E. J. La Motta, "Urban Waste Management & Research," EPA STAR Environmental Research Seminar, U.S. Environmental Protection Agency Region 6, May 28, 2003 in Dallas, TX (invited)

- McManis, K. L., "LAPELS Update - Professional Engineering: Laws and Upcoming Issues Critical to the Profession," presented to Louisiana Engineering Society, New Orleans Chapter, March 19, 2003
- McManis, K. L., "Identification and Stabilization of Silt Soils," Presented at 2002 Louisiana Transportation Engineering Conference, Baton Rouge, February 2002
- McManis, K. L., "Are Silts Usable for Pavement Structures?" Southwest Geotechnical Conference Baton Rouge, April 26, 2001
- McManis, K. L., "Issues Involving the Vertical Expansion of Existing Landfills," 2000 Louisiana Civil Engineering Conference & Show, ASCE, New Orleans, Sept 7 & 8, 2000
- McManis, K. L. "Exploring the Five Year Professional Degree Program for Civil Engineers," 2000 Louisiana Civil Engineering Conference & Show, New Orleans, ASCE Sept 7 & 8, 2000
- McManis, K. L., "Deep Foundations on Brownfield Sites," 2000 Louisiana Civil Engineering Conference & Show, ASCE Sept 7 & 8, 2000 Louisiana Civil Engineering Conference & Show, New Orleans, ASCE Sept 7 & 8, 2000
- McManis, K. L., Sessions Moderator, "Engineering Education," and "Design," 1998 Gulf-Southwest ASEE Annual Meeting, American Society for Engineering Education, New Orleans, March 27, 1998.
- McManis, K. L., "UWMRC International Environmental Projects," Carrollton Rotary Club, New Orleans, May 13, 1996.
- McManis, K. L., Session Chairman, "Session 5: Water Treatment, Pollution and Control," First International Conference on Environmental Engineering, Education and Training, EEET '96, Wessex Institute of Technology, Southampton, UK, April 17, 1996.
- McManis, K. L., Presentation of Case Study of an International Environmental Education Project," Session 3, EEET '96, Wessex Institute of Technology, Southampton, UK, April 16, 1996.
- McManis, K. L., Presentation of "Engineering Education: Development of a Graduate-Level Course in Pollution Prevention Engineering," Session 3, EEET '96, April 16, 1996.
- McManis, K. L., "Measuring Infiltration Rates in a Clay Liner," an invited lecture to the Environmental Engineering Department, Tsinghua University, Beijing, P.R. China, March 21, 1996.
- McManis, K. L., "Environmental Research at the Urban Waste Management and Research Center," an invite lecture to the Environmental Engineering Department, Tsinghua University, Beijing, P.R.China, March 20, 1996.
- LaMotta, E. and McManis, K., "Environmental Initiatives in Latin America - A Case Study," Presented at the IABA Panel, **Sustainable Development and the Environment in the Americas**, XXXII Conference of the Interamerican Bar Association, Quito, Ecuador, November 12-17, 1995.
- McManis, K. L., Knecht, A., and Kura, B., "ERIC - Environmental Resources and Information Center," SES'95, 32nd Annual Technical Meeting, Society of Engineering Science, New Orleans, LA, October 20-November 2, 1995.
- McManis, K. L., LaMotta, E., and Lea, R., "International Cooperative Agreements for Environmental Education Projects - A Case Study," SES'95, 32nd Annual Technical Meeting, Society of Engineering Science, New Orleans, LA, Oct. 29 - Nov. 2, 1995.
- McManis, K.L. and M. Nataraj, "Characteristics of Geotextiles and Geomembranes," Fifth Annual Louisiana Civil Engineering Conference and Show, Louisiana Section of ASCE, Kenner, LA, September 15, 1995.
- McManis, K. L., "Ethics in Engineering Education," Fourth Annual Louisiana Civil Engineering Conference and Show, Louisiana Section ASCE, panel moderator, Kenner, LA., September 16, 1994.
- McManis, K. L., "Research at the University of New Orleans," Civil Engineering Faculty Forum, American Society of Civil Engineers and Louisiana Engineering Society 1994 Joint Meeting, Baton Rouge, LA, March 18, 1994.
- McManis, K. L., "The Urban Waste Management and Research Center," 20th Annual RREL Research Symposium, Panel Discussion: University Environmental Research Centers, U.S. EPA, Cincinnati, OH, March 16, 1994.
- McManis, K. L., "The New Orleans' Public Landfill Siting Effort," American Society of Civil Engineers, New Orleans Chapter, New Orleans, La., May 26, 1993.
- McManis, K. L., "Siting Consideration in Locating a Landfill/Case Study," 1993 Solid waste and Hazardous Waste Management Conference, sponsored by the La. Dept. of Environmental Quality and University of Southwestern Louisiana, Lafayette, La., April 2, 1993.

- McManis, K.L., "The New Orleans Search for a Landfill," 69th Annual Congress of Cities and Exposition, Sanitation and Recycling Workshops, National League of Cities, New Orleans, Louisiana, November 30, 1992.
- McManis, K. L., "Government's Role in Procurement and the Development of Markets for Recycled Goods," Conference on Procurement and Market Development for Recycled Goods, EPA Region 6 and GSA Region 7, New Orleans, Louisiana, July 9, 1992.
- Nataraj, M. and McManis, K.L., "Development of a Course: Geotechnical Engineering for Waste Management," Louisiana Section ASCE Spring Meeting, Shreveport, La., April 1992.
- McManis, K. L., "Pollution Prevention Research at the Urban Waste Management and Research Center," EPA/ State Pollution Prevention Conference, Sponsored by EPA Region 6, Arlington, Texas, July 24, 1991.
- McManis, K. L., "Solid Waste Problem - Guayaquil, Ecuador," La. Chapter of ASCE & La. Chapter of ACI, Spring Conference, New Orleans, April 19, 1991.
- McManis, K. L., "The Municipal Solid Waste Problem," An Invited Lecture to the Faculty and Students of the University of Guayaquil, Guayaquil Ecuador, January, 1991.
- McManis, K. L., "Use of Class C Fly Ash As A Stabilizer," Twenty-Second Southeastern Transportation Geotechnical Engineering Conference, New Orleans, La., October 28 - November 1, 1990.
- McManis, K. L., "Methods and Use In Dynamic Evaluation of Pile Driving," Twenty-Second Southeastern Transportation Geotechnical Engineering Conference, New Orleans, La., October 28 - November 1, 1990.
- McManis, K. L., "A Systems Approach For The Management Of Lake Pontchartrain," Seminar on Environmental Quality of Lake Ponchartrain: Issues and Prospects, Environmental and Water Resources Technical Committee, New Orleans ASCE Chapter, October 3, 1990.

#### **Invited Lectures and Presentations:**

- McManis, K.L., Kirby Hebert, and Glen McCall, "What is Civil Engineering?" ASCE Acadian Chapter Outreach Committee Presentation for Area High Schools, Lafayette, Louisiana, Spring 2006
- McManis, K. L., "The GCRMTC Environmental Resources and Research Center," Environmental Best Manufacturing Practices, Spring Bi-Annual Meeting, Navy Best Manufacturing Practices Center, New Orleans, LA, March 16, 1998.
- McManis, K. L., "Research and Activities at the UNO Urban Waste Management and Research Center," Invited Presentation, Tsinghua University, Beijing, P.R. China, March 18, 1996.
- McManis, K.L., "Measurement of the Infiltration Rates of Clay Liners," Invited Presentation, Tsinghua University, Beijing, P.R. China, March 21, 1996.
- McManis, K.L., "Solid Waste Crisis: Issues and Solutions," Louisiana Excellence Program, Government Leadership Institute, University of New Orleans, November 1993.
- McManis, K. L., "The Commercial Waste Stream and Its Potential for Recycling," Recycling Issues: a program for concerned companies and individuals presented by the UNO Urban Waste Management & Research Center in cooperation with UNO Metropolitan College and the Downtown Development District, New Orleans, June 21, 1991.
- McManis, K. L., "Solid Waste Management Needs," Solid Waste Crisis: Issues and Solutions Panel, Louisiana Excellence Program, Government Leadership Institute, University of New Orleans, December 13, 1991.
- McManis, K. L., "A Waste Reduction & Recycling Program For The Office: General Comments," Mobil Exploration & Producing U.S. Inc., Waste Minimization & Recycling Program, New Orleans Kick-Off Meeting September 20, 1990.
- McManis, K. L., "Regional Waste Disposal," presentation for the Chamber's Regional Development Committee, The Chamber/New Orleans and the River Region, June 7, 1990.
- McManis, K. L., "Solid Waste Management and Research," presentation for the East New Orleans Council, The Chamber/New Orleans and the River Region, March 1990.

## **5. OTHER SCHOLARLY OR CREATIVE ACTIVITIES.**

- A. Service in role of discussant, critic, reviewer for professional meeting or publication.  
 3<sup>rd</sup> International Conference on Grouting and Ground Treatment  
 New Orleans, February 9-12, 2003 (Planning Committee)

Transportation Research Board (1988-2000)  
- Committee A2LO2, Soil and Rock Properties  
- Committee A2J03, Lime and Lime-Fly Ash Stabilization  
(paper review/session identification for TRB Annual Meeting & publications)

ASCE Environmental Engineering Journal

***Environmental Engineering Education***

T.V. Duggan & C.A. Mitchell, Editors, 1997  
Environmental Engineering Series Editorial Board, Member  
Computational Mechanics Publications  
Southampton, UK and Boston, USA

PWS Publishing Co.  
Boston, MA

***Principles of Foundation Engineering***

Braja Das, 4th Edition, December 1997

B. Service in role of officer of professional organization, program committee member, session organizer for professional meeting.

American Society for Engineering Education

- Environmental Engineering Division Treasurer, 1991-92
- ASCE 1991 National Conference in New Orleans, Planning Committee, Division A Chairman
- College-Industry Conference Planning Committee "Role of the Engineering Technician in Industry, 1975
- June 1991, Session Organizer/Moderator: "Strategies for Environmental Education & Research," American Society for Engineering Education National Conference, **Challenges of a Changing World**, New Orleans, La.

American Society of Civil Engineers

- Geotechnical Committee, New Orleans Chapter
- ASCE National Hydraulics Conference  
New Orleans, La., Aug. 1989  
Session Chairman: (1) Computational Hydraulics and  
(2) Hydraulic Case Studies

Louisiana Engineering Society - 1964-96

- State Chairman of Education and Engineering Technology Committees, Co-Chairman of Professional Engineers in Education Division, Nomination Committee for N.O. Chapter

Louisiana Society of Professional Surveyors

- 1984 N.O. Chairman, National Surveyors Week

Society of American Military Engineers

- Louisiana Post Board Member

C. General editorship of journal, monograph series, book series.

Newsletters: "Environmental Resources & Information Center News Letter," biannual publication, Gulf Coast Regional and Maritime Technology Center, Spring 1996-98.

"Facilities and Environmental Effects SP-1 Newsletter," National Shipbuilding Research Program, 3 publications annually by ERIC/GCRMTC, 1996-98

“ Urban Waste Issues”, Urban Waste Management and Research Center, University of New Orleans, 1991/92, 92/93, 93/94

"Urban Waste Management and Research Center--An Introduction," **Pelican Post**, Louisiana Nature & Science Center, December-January-February Quarter, 1991-92

#### D. Professional society membership

American Society of Civil Engineers (current)  
American Society for Testing Materials  
American Society for Engineering Education (current)  
Association of Drilled Shaft Contractors  
International Society for Soil Mechanics & Foundation Engineers  
International Solid Wastes & Public Cleansing Association  
Louisiana Engineering Society (current)  
Order of the Engineer (current)  
Transportation Research Board  
Solid Waste Association of North America  
Society of American Military Engineers

#### 6. AWARDS, LECTURESHIPS, OR PRIZES.

##### Scholastic Awards:

1975 L.S.U. Michael Claus Memorial Award for Outstanding Graduate Research  
1964-65 National Science Foundation Traineeship

##### Professional:

2008 ASCE Acadiana Chapter Outstanding Educator  
2006 ASCE Life Time Membership  
2004 UNO College of Engineering Distinguished Service Award  
1994-04 UNO Contractors Educational Trust Fund Professorship  
1994 Who's Who In Science And Engineering  
1992 LEF Engineering Faculty Professionalism Award  
Louisiana Engineering Foundation  
1980 Who's Who in Engineering

##### Honor Society Membership:

Chi Epsilon, National Civil Engineering Honor Society  
Sigma Chi, Scientific Research Society  
Phi Kappa Phi Honor Society

#### 7. GRANTS AND CONTRACTS

##### A. Grants and contracts received.

(Project title, source and amount of grant, date approved)

##### **a. Principal investigator, co-principal investigator, or equivalent**

As chairman, the University of New Orleans Civil and Environmental Engineering Department was ranked 5<sup>th</sup> in the nation by the Engineering News-Record (a McGraw-Hill publication) in its list of “Leading CE Research Schools,” published Oct 21, 2002. The list ranks schools by percentage of income from research.

“Increased Funding for EPA Grant R827933-01-0: Urban Waste Management & Research Center, University of New Orleans,” \$1,000,000, U.S. Environmental Protection Agency, October 2001-2004, McManis, PI, and Crisp, Co-PI.

"Identification and Stabilization of Problematic Silt Soils," Louisiana Transportation Research Center, \$153,285 , Principal Investigator, April 1999 - Sept.2002

"Funding of the University of New Orleans Urban Waste Management and Research Center," Grant Award # EPA R827933-01-0, U.S. Environmental Protection Agency, \$4,680,000, Principal Investigator, March 1999 - Sept 2004

"Tire Monofill Study: Liner/Leachate Investigate for Cottonport Facility," Louisiana Department of Environmental Quality, \$9,000, principal investigator, June 1997.

"Support for Urban Waste Management and Research Center," Grant Application, U.S. Environmental Protection Agency, \$2,258,400, principal investigator, May 1997.

"GCRMTC Environmental Resource Information Center (ERIC)," Gulf Coast Region Maritime Technology Center, \$500,596/yr and continuing, principal investigator/ director, April 1995-98..

"Urban Waste Management and Research Center (Renewal)," U.S. Environmental Protection Agency, Assistance ID No. R 824175-01-0, \$280,720, principal investigator/director, July 18, 1995

"Regional Waste Management Analysis System," Terrebone Parish Consolidated Government, \$21,567, Resolution No. 93-474, co-principal investigator, October 1993.

"Louisiana Environmental Education and Resource Program," U.S. Department of Education, \$747,492, PR/Award No. P252A30013, co-principal investigator, October 1993.

"Evaluation of the City of Guayaquil Sanitary Sewer System," UNO Urban Waste Management and Research Foundation, \$1,036,710, prinipal investigator/project manager, May 15, 1993.

"Recycling Incinerator Ash: Phase II," Chevron Chemical Company, Oronite Additives Division, Belle Chasse, Louisiana, \$150,000, principal investigator, May 1, 1993.

"Integrated Municipal Solid Waste Minimization Study," Louisiana Educational Quality Support Fund (LEQSF), \$235,000, co-principal investigator, July 1, 1993.

"Continued Funding for the UNO Urban Waste Management & Research Center," U.S. Environmental Protection Agency, Continuation of CR-816862, \$795,760, project director, November 1992.

"Preparation of RFP for Solid Waste Consultant," City of New Orleans, \$5,225, project director, May 1992.

"Project Linchpin," Amendment to CR-816862: Urban Waste Management and Research Center, Risk Reduction Engineering Laboratory, U.S. Environmental Protection Agency, \$30,000, co-principal investigator, June 1992.

"Solid Waste Management Training/Outreach Project," Financial Assistance Agreement X 006736-01-0, U.S. Environmental Protection Agency Region 6, \$27,800, principal investigator, July 1991.

"Recycling Incinerator Ash," Chevron Chemical Company, Oronite Additives Division, Belle Chase, La., \$167,075, principal investigator, June 1991.

"Waste Data Research: Jefferson Parish Residential/Institutional Hazardous Waste," American Cyanamid RfQ #47611-88991, \$17,000, co-principal investigator, June 1991.

"Long Term Evaluation and Identification of the Proper Testing Program for ASTM Class C Fly Ash Stabilized Soils," Louisiana Transportation Research Center, LTRC Project No. 91-1GT(B), State Project No. 736-16-74, Louisiana HPR No. 0010(14), (\$74,969), principal investigator, Nov. 1990.

"Instrumentation for Geotechnical Engineering Laboratory," Instrumentation and Laboratory Improvement Program, National Science Foundation, Proposal No. USE-9051094, (\$159,460), co-principal investigator, August 1990.

"Experimental and Numerical Modeling in Civil Engineering," Research Experience for Undergraduates Program, National Science Foundation, Proposal ID No. EID-90000986, (\$20,750), co-principal investigator, August 1990.

"Establishment of the Urban Waste Management and Research Center," Office of Environmental Engineering and Technology Demonstration, U.S. Environmental Protection Agency, (\$2,377,411), Project Control No. R-816862-01-0, principal investigator, July 1990.

"Determining Pile Bearing Capacity by Some Means Other Than the Engineering News Formula," Louisiana State Project No. 736-12-73, Louisiana Transportation Research Center No. 88-3GT(B), (\$61,000), principal investigator, Fall 1987.

"Laboratory Evaluation of Fly Ash Treated Embankment and Base Material," Louisiana State Project No. 736-13-44, Federal Aid Project No. HPR-0010(11), Louisiana Transportation Research Center Project No. 88-1S(B), (\$9,000) principal investigator, Fall 1986.

"Settlement Analyses with Conventional and Gradient Controlled Tests," UNO Dept. of Civil Engineering for the La. D.O.T.D. and FHA, Bureau of Public Roads, State Project No. 736-08-95, Research Project No. 83-16(B), Louisiana HPR 0010(007), (\$49,000), principal investigator, Fall 1982.

"Geotechnical Analysis of Sub-Sea Sediment," UNO Earth Sciences and Civil Engineering Departments for the U.S. Naval and Oceanographic Department, (Funding was provided for the support of graduate and undergraduate students in the two academic programs. (Approximately \$15,000 to \$20,000/year), co-investigator, Fall 1982.

"Acquisition of Gradient Controlled Consolidometer," National Science Foundation Research Equipment Program, Grant No. CDP-8012978, (\$11,000), principal investigator, Fall 1981.

"Hydraulic Conductivity of Rockfill," UNO Civil Engineering Department, Louisiana Water Resources Research Institute and, the University of New Orleans, OWRT No.B-012-LA, (\$36,925), co-investigator, Fall 1979.

"Generalized Friction Equation for Flow in Granular Media," University of New Orleans Graduate School, (\$1,500) co-investigator, Summer 1979.

**b. Not principal investigator, etc. (indicate role)**

"Comparative Study of Vertical Drain Performance in Stage Loading of Storage Tanks," financial support for graduate student, Murphy Oil Co., faculty supervisor, 1983.

"The Effects of Conventional Soil Sampling Methods on the Engineering Properties of Cohesive Soils in Louisiana," Division of Engineering Research, Louisiana State University for the La. D.O.T.D.,FHA, Bureau of Public Roads, State Project No. 736-01- 58, Louisiana HPR 75-C, (\$350,000), research associate/assistant, 1971.

8. MAJOR AREAS OF CREATIVE OR RESEARCH INTEREST.

Engineering Education & Research, Civil Engineering, Geotechnical, Geoenvironmental, Materials, Waste Management

9. OTHER PROFESSIONAL ACCOMPLISHMENTS

A. Manuscripts under submission.

(Title, when and where submitted)

B. Course/Program design and development.

Civil Engineering, Geotechnical-Geoenvironmental /Waste Management programs (Graduate & Undergraduate programs and courses)

|   |           |
|---|-----------|
| UNO Schlieder Urban Environmental Systems Center<br>(Urban Waste Management & Research Center)                        | 1990      |
| Maritime Environmental Resources & Information Center<br>(Sub-center of Gulf Coast Region Maritime Technology Center) | 1995      |
| ABET Accreditation for UNO Civil Engineering Program  | 1978-2004 |

C. Special recognition for teaching.

1992 Engineering Faculty Professionalism Award  
Louisiana Engineering Foundation  
1984 Civil Engineering nominee for UNO Alumni  
Assoc. Award for Excellence in Teaching  
1979 UNO Outstanding CE Faculty  
1971-74 Outstanding Educators of America

E. Other professional services.

|                   |  |
|-------------------|--|
| Fall 2006-        | LTRC Foundation, Chair (2012 - )   |
| Fall 2006-        | LTRC Advisory Board  |
| January 2004-     | Civil & Environmental Engineering Advisory Board<br>University of New Orleans  |
| April 2004        | National Science Foundation ILS Programs (civil engineering)<br>Washington D.C.  |
| August 2000-2006  | Louisiana Professional Engineers and Land Surveyors Board<br>Board Member<br>- LAPELS Executive Committee, Treasurer<br>- Civil Engineering Committee, Chair<br>- Land Surveyors Committee<br>- CPD Committee, Chair<br>- Education/Accreditation Committee, Chair<br>- Legal & Fiscal Committee<br>- MIS Committee, Chair<br>- Faculty Licensure Committee, Chair |
| Spring 2004       | - National Science Foundation ILI Panel Review-<br>Integrated Laboratory Instrumentation Program<br>Washington D.C.  |
| January 1996-2003 | Transportation Research Institute<br>Board Member<br>New Orleans, La   |



|                              |   |
|------------------------------|---|
| Summer 1994                  | Mayoral Task Force on Solid waste<br>City of New Orleans  |
| Spring 1993                  | LDEQ/State Public Universities Task Force   |
| March 1992                   | Solid Waste Management Subcommittee<br>MetroVision - Regional Planning Commission<br>Jefferson, Orleans, St. Bernard, St. Tammany Parishes  |
| December 1992                | Solid Waste Task Force<br>Governor's New Orleans Transition Team  |
| August 1991                  | Participant in Thrust Area 3, "Enhancement of Environmental Quality"<br><b>Setting a National Research Agenda For The Civil Engineering Profession</b><br>Civil Engineering Research Foundation<br>Washington, DC |
| August 1991-<br>June 1992    | Orleans Parish Solid Waste, Chairman<br>Public Advisory Committee for the<br>Siting of a New Municipal Landfill   |
| September 1991-<br>1990-1993 | New Orleans Recycling Committee<br>Institute for Recyclable Materials<br>Co-Chairman, Advisory Board<br>Louisiana State University<br>Louisiana Transportation Research Center<br>Baton Rouge, LA:                |
| 1997-2004                    | ---LTRC Foundation Board of Directors   |
| 1995-2004                    | --- LTRC Policy Committee   |
| 1993-1999                    | --- ALF Technical Advisory Committee, Accelerated Load Facility (LTRC<br>Project No. 93-1ALF)   |
| 1988-89                      | --- Participation in planning for establishing an Accelerated Load Facility<br>(ALF) for pavement research and analysis.  |
| Spring 1986                  | --- Evaluator of proposal for Louisiana Geo-synthetic Test Facility, LTRC   |
| Fall 1986                    | --- Fly Ash Treated Embankment and Base Material. Reviewed and<br>evaluated laboratory testing program.   |
| 1983-1985                    | Transportation Advisory Research Council<br>LA Dept. of Transportation and Development<br>Baton Rouge, LA   |
| 1976 & 78                    | National Science Foundation<br>Instructional Science Equipment Program-Los Angeles & Denver   |