

## CURRICULUM VITAE

May 2012

**DANNY DAVID REIBLE, PhD, PE(LA), BCEE, NAE**  
**Bettie Margaret Smith Chair of Environmental Health Engineering**  
**Director, Center for Research in Water Resources**

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**EDUCATION:** Ph.D. Chemical Engineering, June 1982  
California Institute of Technology, Pasadena, California  
Thesis: Pollutant Transport in Complex Atmospheric Flows  
M.S. Chemical Engineering, June, 1979  
California Institute of Technology, Pasadena, California  
B.S. Chemical Engineering with highest honors, May 1977  
Lamar University, Beaumont, Texas

### PROFESSIONAL EXPERIENCE:

9/11- Director, Center for Research in Water Resources, University of Texas  
8/07 – 9/10 Coordinator, Environmental and Water Resources, University of Texas  
8/04 - Bettie Margaret Smith Chair of Environmental Health Engineering,  
Department of Civil, Architectural and Environmental Engineering, University of Texas  
7/95 – 9/07 Director, Hazardous Substance Research Center/South & Southwest  
7/93 - 7/95 Shell Professor of Environmental Engineering, University of Sydney, Sydney, Australia  
1/91 - 6/91 Senior Visitor, Cambridge University, UK, Dept. Applied Math/Theoretical Physics  
6/90 - 9/90 Summer Faculty Researcher, Army Research Office, Vicksburg, MS  
1/87 - 12/92 Director of Graduate Instruction, Chemical Engineering, LSU  
10/81 -8/04 Department of Chemical Engineering, LSU  
Professor (8/92 – 8/04), Chevron Endowed Professor (1/98- 8/04), Emeritus (8/04- )

### HONORS AND AWARDS:

2011 Malcolm Pirnie Frontier in Research Award- Association of Environ. Egr and Science Professors  
2009 Fellow, American Association for the Advancement of Science (1987 Env Sci and Egr Fellow)  
2007 Fellow, American Institute of Chemical Engineers  
2005 National Academy of Engineering  
For the “development of widely used means of management of contaminated sediments”  
2004 Board Certified Environmental Engineer, American Academy of Env. Engineers *by eminence*  
2004 Professor and Director Emeritus, Louisiana State University  
2002 Charles E. Coates Award - American Chemical Society/American Institute of Chemical Eng.  
2001 Lawrence K. Cecil Award of the American Institute of Chemical Engineers  
1993 Fellow, Institution of Engineers, Australia  
1986 New Engineering Educator Excellence Award, American Society for Engineering Education

## **PROFESSIONAL ACTIVITIES:**

### **National/International Advisory and Review Board Activities (2000-):**

Program Director, Texas Water Summit (May, 2012)  
AIChE Water Advisory Board (2010-), Chair (2012-)  
Engineering Conferences International- Planning Workshop on Global Engineering Challenges (2011)  
Rice University Civil and Environmental Engineering Advisory Committee (2010- )  
Associate Editor, *Limnology and Oceanography: Fluids and Environments* (2010- )  
EPA Science Advisory Board, Environmental Engineering Committee (2009-)  
National Research Council Committee on Chemical Munitions Disposal (2009- )  
USACE ERDC Contaminated Sediment Programs Peer Review Panel (2009-)  
Moderating Panel – US/UK Programme on Nanomaterials (2009)  
USACE ERDC Environmental Laboratory Peer Review Panel (2008)  
Advisory Committee, Doctoral Program, Lamar University (2006-)  
National Research Council Committee on OMB Risk Assessment Guidance (2006- 2007)  
National Research Council Committee on Dredging Effectiveness (2006-2007 )  
Associate Editor, *Journal of Environmental Engineering* (2006- )  
Editorial Board, *Environmental Forensics* (2006 - )  
Advisory Committee, College of Engineering, Louisiana State University (2005-)  
National Research Council post-Katrina Workshop Steering Committee (2005)  
Member, WATERS Network Conceptual Design Team for the National Science Foundation (2005-2007)  
Co-Chair, Science Committee for National Science Foundation CLEANER Initiative (2005- 2007)  
National Research Council Board of Environmental Studies and Toxicology (2005- 2011)  
Member, LSU College of Engineering Dean's External Advisory Council (2005- )  
Director, NATO Advanced Research Workshop on Assessment and Remediation of Contaminated Sediments, Bratislava May 18-21, 2005  
Advisory Board, Louisiana Water Resources Research Institute (2005- )  
Chair, National Science Foundation Review- Distinguished Teacher/Scholars 2005 (member, 2004)  
Associate Editor, *Journal of the Air and Waste Management Association* (2004- )  
Participant and Proceedings Co-Author, Pellston Workshop- Use of Sediment Quality Guidelines (2002)  
Director, National Science Foundation Pan-American Advanced Study Institute on In-Situ Assessment and Remediation of Contaminated Sites, July 22-August 2, 2002, Rio de Janeiro, Brazil  
Testimony before US House of Representatives Subcommittee on Water Resources and the Environment on Management of Contaminated Sediment (2001)  
Director, NATO Advanced Study Institute on In-Situ Assessment and Remediation of Contaminated Sites, May 24-June 2, 2001, Prague, Czech Republic  
Chair, Workshop on Modeling Contaminated Sediments, Penn St. Univ, (July 2000)  
National Research Council Committee on Environmental Remediation at Navy Facilities (2000 - 2003)  
Associate Editor, *Chemical Engineering Journal*, Elsevier Science Publishers (2000- 2007)  
National Research Council Committee on Remediation of PCB-Contaminated Sediments (1999 - 2001)  
Scientific Advisory Committee, Environmental Technology Development and Commercialization Center  
Editorial Board, *Waste Management*, Elsevier Science Journal, New York (1998- 2002)  
External Examiner, Environmental Engineering, National Singapore University (1995 - 2000)

### **University Administrative and Advisory Activities (2000-)**

Member, Faculty Search in Construction Engineering (2010-2011)  
Chair, Faculty Search in Water Resources (2009-2010)  
Coordinator of Initiative for UT/IBM Center for Sustainable Water Technologies (2009-)  
Faculty Lead- Secure and Sustainable Infrastructure Initiative, University of Texas (2009-)  
Faculty Lead- Energy Water Nexus Initiative, University of Texas  
Member, College of Engineering Awards Committee, University of Texas (2009-2010)  
Coordinator, Environmental and Water Resources, CAEE, University of Texas (2007-2010)  
Member, College of Engineering Public Relations Committee, University of Texas (2007-)  
Member, College of Engineering Appointments/Promotions Committee, University of Texas (2007-2009)  
Chair, Faculty Evaluation Committee, CAEE, University of Texas, 2006-2007 (Member 05-06, 11-12)  
Chair, LSU College of Engineering Research Advisory Council, 2003 – 2004

Search Committee, Vice Provost for Art and Sciences and Engineering, LSU, 2003  
Member, Task Force on Administration, LSU, 2002-2004  
Chair, Cain Chair Search Committee, 2001- 2004  
Member, LSU College of Engineering Ad Hoc Committee on Professorships, 2001-2003  
Faculty Senate, LSU, 2001 - 2004  
Member, Program Review Council, LSU, 2000- 2004, Chair for Reviews of Geology and Psychology  
Chair, Coordination Council on Environment and Technological Hazards Prevention, LSU, 2000- 2004

**Professional Affiliations:**

American Chemical Society, member - Symposium Chair, 1999, 2009  
American Institute of Chemical Engineers, member  
National Water Advisory Board 2009-  
Symposium Chair, 1986, 1989, 1992, 1998- 2000, 2002- 2006, 2008- 2011  
Meeting Program Chair, San Diego, CA, 1990  
Executive Board of National Programming Committee, 1991-1995, Chair 1994  
Environmental Division, 2<sup>nd</sup> Vice Chair, Vice Chair, Chair, Past-Chair, 2002-2005  
Baton Rouge Section, Treasurer (1985), Chair (2000), Director (2003-2004)  
American Geophysical Union, member -Symposium Chair, 1998, 2005, 2008  
Society for Environmental Toxicology and Chemistry, member- Symposium Chair, 1999, 2008. 2009  
Member – American Associate for the Advancement of Science, Air and Waste Management Association,  
Alpha Chi Sigma (Chemistry Fraternity), American Society of Civil Engineers, American Society for  
Engineering Education, Association of Environmental Engineering and Science Professors, , National  
Academy of Engineering, Sigma Xi, American Academy of Environmental Engineers (BCEE),  
Universities Council of Water Resources, Carbondale, IL -Delegate (1998- ), Water Environment  
Federation, Institution of Engineers, Australia (Fellow, active member 1993-1995)

**CURRENT ACTIVITIES:**

Dr. Reible is currently the Bettie Margaret Smith Chair of Environmental Health Engineering at the University of Texas and Director of the Center for Research in Water Resources He previously served as Director of the multi-university consortium, Hazardous Substance Research Center (HSRC) South and Southwest, from 1995-2007. From 2007 to 2010, Dr. Reible served as Coordinator of the Environmental and Water Resources group at the University of Texas. Much of Dr. Reible's career and the focus of the HRSC was on contaminated sediments. , Dr. Reible was inducted into the National Academy of Engineering in 2005, for his work in identifying management approaches for contaminated sediments. His current research activities are focused air pollution and pollutant treatment, sustainable water management and the assessment and remediation of contaminated sites. Specific projects include passive sampling of mobile phase contaminants using solid phase microextraction and diffusion gel thin film profiling for the assessment of bioavailability of organic and metal contaminants and the development of permeable treatment barriers as a contaminated sediment treatment approach. Dr. Reible has served as PI on projects totaling in excess of \$30 million and has authored/edited 5 books, more than 30 chapters in books, and more than 110 refereed journal papers. Major current research activities for which Dr. Reible is currently serving as PI or co-PI are listed below:

***Current Research Projects***

- Industrial Sources – Biodegradation in Sediment Caps (2007-2012) \$640 K
- NIH – Remediation of contaminated sediments using Waterjet Amendment (2007-2012) RO1co-PI (250K UT)
- NIH – Funnel and gate Innovations for Containment and Treatment of Contaminated Sediments (2007-2012) RO1 900K , Technology Transfer Supplement (2010-2012) 300 K
- Industrial Sources – DGT for the assessment of porewater concentration s of mercury (2009-2012) 225K
- USACE – Application of Passive Samplers for Evaluation of Cap Performance (2009-2012) 155K
- USACE - Technical Support for Laboratory and Field Investigations of Sediment Capping (2011-2012) 246K
- Industrial Sources - Mercury biogeochemistry and management via amended capping (2011-2013) 824K

- **PUBLICATIONS**

- A. Refereed Publications

- Books**

1. Danny D. Reible, Ed. *Sediment Processes, Assessment and Remediation*, Springer, New York, in press
2. Danny D. Reible and Tomas Lanczos, Ed. *Assessment and Remediation of Contaminated Sediments*, NATO Science Series IV, Earth and Environmental Sciences Vol. 73. Springer-Verlag, Dordrecht, Netherlands (2006)
3. Calvin C. Chien; Miguel A. Medina, Jr.; George F. Pinder; Danny D. Reible; Brent E. Sleep; and Chunmiao Zheng, Ed. *Environmental Modeling and Management: Theory, Practice, and Future Directions*, Today Media, Inc., Wilmington, DE (2002) Reprinted with revisions as *Contaminated Ground Water and Sediment*, Lewis Publishers (2004)
4. Reible, D., K. Demnerova, Ed. *In-Situ Assessment and Remediation of Contaminated Sites*, Nato Science Series in Environmental Sciences, Kluwer, Netherlands (2002)
5. Choy, B. and D.D. Reible, *Diffusion Models of Environmental Transport*, CRC/Lewis Publishers (2000) 184 pp.
6. Reible, D.D. *Fundamentals of Environmental Engineering*, CRC/ Lewis Publishers (1999) 526 pp.

- National Research Council Refereed Committee Reports**

1. *Review of Closure Plans for the Baseline Incineration Chemical Agent Disposal Facilities*, National Academy Press (2010) Committee: P. Lederman, G.S. Groenewold, D. Grubbe, J.R. Howell, T. A.Kimmell, K.E. Philipose, L. T. Phillips, D.D. Reible, W.L.Short, L. M Siegel, D.A Skiven, S.A. Telford, L.J. Washington,
2. *Review and Assessment of Closure Plans for the Tooele Chemical Agent Disposal Facility and the Chemical Agent Munitions Disposal System*, Letter Report, National Academy Press (2009) Committee: P. Lederman, L. M Siegel, D.A. Skiven, J.R. Howell, D.D. Reible, D. Grubbe, T. A. Kimmell
3. *Assessing the Effectiveness of Dredging at Superfund Megsites*, National Academy Press (2007) Committee: C.R. O'Melia, G.A. Burton, W.H. Clements, F.C. Curriero, D.Di Toro, N.R. Francingues, R.G. Luthy, P.L. McCarty, N. Musgrove, K.N. Probst, D.D. Reible, L.J. Thibodeaux, D.J. Voorhees, J. Wolfe
4. *Scientific Review of the Proposed Risk Assessment Bulletin from the Office of Management and the Budget*, National Academy Press (2007) Committee: J.F Ahearne, G.V. Alexeff, G.B. Baecher, A. J. Bailer, R. M. Cooke, C.E. Feigley, B. Fischhoff, C. P. Gerba, R. H. Goldman, R. Haveman, W. E. Kastenber, S. Katzen, E. Miranda, M. Newman, D. E. Patton, C. Poole, D.D. Reible, J. V. Rodricks
5. *Environmental Cleanup at Navy Facilities: Adaptive Site Management* National Academy Press (2003) Committee: E.J Bouwer, G.F. Parkin, S.B. Garland, P.E. Haas, R. Johnson, M.M. Lorah, F.G. Pohland, D.D. Reible, L.M. Siegel, M.J. Small, R.G. Stahl, A.D. Stark, A.J. Valocchi, W.J. Walsh, C. Welty
6. *A Risk Management Strategy for PCB-Contaminated Sediments*, National Academy Press (2001) Committee: J.W. Farrington, R. Loehr, E. Anderson, W. F. Bohlen, Y. Cohen, K. Farley, J. Giesy, D. Henshel, S. Lester, K. Liegel, P. McCarty, J., O'Donoghue, J. Opaluch, D. Reible

## Chapters in Books

1. Knox, A., I. Petrisor, C. Turick, J. Roberts, M. Paller, D. Reible, C. Forest, Life Span of Biopolymer Sequestering Agents for Contaminant Removal and Erosion Resistance, *Biopolymers*, M. Elnashar, Ed., Sciyo Press, Croatia (2010)
2. Thibodeaux, L.J., J. Birdwell, D. Reible, Diffusive Chemical Transport across Water and Sediment Boundary Layers, Chapter 12 in *Handbook of Environmental Chemical Mass Transport*, Taylor and Francis, CRC Press (2010)
3. Louis J. Thibodeaux, Justin E. Birdwell, Thibodeaux, L.J., G. Matisoff, D. Reible, Biotubation and other sorbed-phase transport processes in surface soils and sediments. Chapter 13 in *Handbook of Environmental Chemical Mass Transport*, Taylor and Francis, CRC Press (2010)
4. Reible, D.D., C. Kiehl-Simpson, A. Marquette, Steady-State Model of Chemical Migration in a Sediment Cap, *Handbook of Environmental Chemistry*, Springer –Verlag, (2008)
5. Reible, D.D. “Contaminant Processes in Sediments,” in *Sedimentation Engineering- ASCE Manual Volume 110*, Ed. Marcel Garcia. (2008)
6. Reible, D.D. and L.J. Thibodeaux, Particle and soluble release of organic contaminants from the sediment bed, *Chemistry in the Environment*, Italian Interuniversity consortium (INCA), Rome, Italy (2006)
7. Reible, D.D. and G. V. Lowry, In situ cap and treat technologies for contaminated sediments, *Chemistry in the Environment*, Italian Interuniversity Consortium (INCA) Rome, Italy (2006)
8. Jeanne E. Tomaszewski, Dennis W. Smithenry, Yeo-Myoung Cho, Richard G. Luthy, Greg V. Lowry, Danny Reible, Tomas Macek, Martina Surá, Zuzana Chrastilova, Katerina Demnerova And Martina Macková, Daniela Pavliková, Miklos Szekeres, Michel Sylvestre, Treatment and containment of contaminated sediments, Chapter 3 in *Assessment and Remediation of Contaminated Sediments*, D.D. Reible and T. Lanczos, Ed. NATO Science Series IV, Earth and Environmental Sciences Vol. 73. Springer-Verlag, Dordrecht, Netherlands (2006)
9. Sam Bentley, Louis Thibodeaux, Peter Adriaens, Meng-Yeng Li, María Romero-González\* And Steven A. Banwart, Zdenek Filip And Katerina Demnerova, Danny Reible, Physicochemical and biological assessment and characterization of contaminated sediments, Chapter 2 in *Assessment and Remediation of Contaminated Sediments*, D.D. Reible and T. Lanczos, Ed. NATO Science Series IV, Earth and Environmental Sciences Vol. 73. Springer-Verlag, Dordrecht, Netherlands (2006)
10. Reible, D.D. Options for the Neponset, Chapter 26 in *Contaminated Soils, Sediments and Water: Successes and Challenges, Vol 10*, EJ. Calabrese, P.T. Kostecki and J. Dragun, Ed. Springer (2006)
11. Lowry, G.V, P.J. Murphy, A. Marquette, and Reible, D.D. Sorbent Amended “Active Sediment Caps for In-Place Management of PCB-Contaminated Sediments”, Chapter 27 in *Contaminated Soils, Sediments and Water: Successes and Challenges, Vol 10*, EJ. Calabrese, P.T. Kostecki and J. Dragun, Ed. Springer (2006)
12. Chapman, P., W.J. Birge, R.M. Burgess, W.H. Clements, W.S. Douglas, M.C. Harass, C. Hogstrand, D.D. Reible, A. Ringwood, Role of Sediment Quality Guidelines and Other Tools in Aquatic Habitats, Chapter 7 in *Use of Sediment Quality Guidelines*, Ed. By R. Wenning, C. Ingersoll and G. Batley, SETAC Press (2005)
13. Chapman, P., W.J. Birge, R.M. Burgess, W.H. Clements, W.S. Douglas, M.C. Harass, C. Hogstrand, D.D. Reible, A. Ringwood, Uncertainties in Assessment of Sediment Systems, Chapter 17 in *Use of Sediment Quality Guidelines*, Ed. By R. Wenning, C. Ingersoll and G. Batley, SETAC Press (2005)

14. Danny D. Reible; Richard H. Jensen; Samuel J. Bentley; Mimi B. Dannel; Joseph V. DePinto; James A. Dyer; Kevin J. Farley; Marcelo H. Garcia; David Glaser; John M. Hamrick; Wilbert J. Lick; Robert A. Pastorok; Richard F. Schwer; C. Kirk Ziegler, "The Role of Modeling in Managing Contaminated Sediments" in *Environmental Modeling and Management: Theory, Practice, and Future Directions*, p. 63-110 (2002). Reprinted as *Contaminated Ground Water and Sediment*, Lewis Publishers, 2004
15. L.J. Thibodeaux, D.D.Reible and K.T. Valsaraj, "Non-particle Resuspension Chemical Transport from Stream Beds," Chapter 7 in *Chemicals in the Environment: Fate, Impacts and Remediation*, Ed. R. Lipnick, R. Mason, M. Phillips and C. Pittman, ACS Symposium Series 806 (2002)
16. Corbisier, P. L. Diels<sup>1</sup>, T.H. Illangasekare, D.D. Reible, M. Reinhard, J.Vangronsveld, Mobility and Availability of Contaminants, in Reible, D., K. Demnerova, Ed. *In-Situ Assessment and Remediation of Contaminated Sites*, Nato Science Series in Environmental Sciences, Kluwer, Netherlands (2002)
17. Illangasekare, T.H. and D.D. Reible, "Pump and Treat for Remediation and Plume Containment: Applications, Limitations and Relevant Processes," Chapter 3 In *Groundwater Contaminated by Organic Pollutants*, J.J. Kaluarachchi, Ed., ASCE Manuals and Reports on Engineering Practice No. 100 (2000)
18. Reible, D.D. and L. J. Thibodeaux. Contaminated Sediment Management Technical Papers. Appendix C- Using Natural Processes to Define Exposure from Sediments. Sediment Management Work Group, Detroit, MI. 1999.
19. Reible, D.D., R. Chaney, J. Hughes, Bioavailability, in *Environmental Availability in Soils*, W.C. Anderson, R. C. Loehr, B. P. Smith, Ed., American Academy of Environmental Engineers, Annapolis, Md. (1999)
20. Thoma, G.J., D.D. Reible, K.T. Valsaraj, L.J. Thibodeaux and D. Timberlake, "Capping of Contaminated Sediments: Experimental Results and Validation of Mathematical Models", in *Emerging Technologies in Hazardous Waste Management VI*, D. W. Tedder and F. G. Pohland, Eds., American Academy of Environmental Engineers (1996)
21. Reible, D.D., "Chemodynamics" *Encyclopedia of Energy Technology and the Environment*, 573-587 (1995)
22. Valsaraj, K.T., L.J. Thibodeaux and D.D. Reible, "Modeling Air Emissions from Contaminated Sediment Dredged Materials," in *Dredging, Remediation, and Containment of Contaminated Sediments, ASTM STP 1293*, K.R. Demars, G.N. Richardson, R.N. Young, and R.C. Chaney, Eds., American Society for Testing and Materials, Philadelphia, pp. 227-238 (1995)
23. Clarke, J., D.D. Reible, R. Mutch, "Contaminant transport and behavior in the subsurface," In *Hazardous Waste Soil Remediation: Theory and Application of Innovative Technologies*, D.Wilson & A.Clarke, Ed., Marcel-Dekker, 1-49 (1993)
24. Reible, D.D., K.T. Valsaraj and L.J. Thibodeaux, "Chemodynamic Models for Transport of Contaminants from Sediment Beds", in *Handbook of Environmental Chemistry*, O.Hutzinger, Ed., Springer-Verlag, Heidelberg 187-228 (1991)
25. Rhee, S.W., D.D. Reible and W.D. Constant, "Simulation of the Effects of Shale Heterogeneities on Effective Permeability in Deep Well Injection Systems," in *Advances in Filtration and Separation Technology*, V. 3, pp. 215-233, Gulf Publishing Co., Houston, TX, 1991.
26. Thoma, G.J., A.C. Koulermos, K.T. Valsaraj, D.D. Reible and L.J. Thibodeaux, "The Effects of Pore Water Colloids on the Transport of Hydrophobic Organic Compounds from Bed Sediments," Chapter 13 in *Organic Substances in Soils and Sediments*, R.A. Baker, ed., Lewis Publishers 231-250 (1991)

27. Reible, D.D. and T.H. Illangasekare, "Subsurface Processes of Non-Aqueous Phase Liquids," in *Intermedia Pollutant Transport: Modeling and Field Measurements*, D.Allen, Y. Cohen and I. Kaplan, Ed., Plenum Press 237-254 (1989).
28. Savant, S.A., D.D. Reible, G.S. Gipson, J.D. Boyle and L.J. Thibodeaux, "An Investigation of the Significance of Convective Transport in River Sediments", in *Health and Environmental Research on Complex Organic Mixtures*, Gray, R., E. Chess, P. Mellinger, R. Riley and D. Springer, eds. DOE Symposium Series, Vol. 62 (1987)
29. Thibodeaux, L.J., D.D. Reible and C.S. Fang, "Transport of Chemical Contaminants in the Marine Environment Originating from Off-shore Drilling Bottom Deposits - A Vignette Model", in *Pollutants in a Multimedia Environment*, Yoram Cohen, Ed., Plenum Press (1986)
30. Gipson, G.S. and D.D. Reible, "A Hybrid Boundary Element- Perturbation Technique for Forced Oscillations of Membrane Structures," in *Recent Applications in Computational Mathematics*, D.L. Karabalis, ed., ASCE, New York (1986)
31. Reible, D.D., P.Yonts and F.H. Shair, "The Effect of the Return of Exhausted Building Air on Indoor Air Quality", in *Indoor Air Quality in Cold Climates: Hazards and Abatement Measures*, D.S. Walkinshaw and J. A. Frazier, ed. (1986)

#### **Refereed Journal Publications**

1. Sun, M., D. Reible, G.V. Lowry and K.B. Gregory Effect of Applied Voltage, Initial Concentration, and Natural Organic Matter on Sequential Reduction/Oxidation of Nitrobenzene by Graphite Electrodes, *Environ Sci Technol.* dx.doi.org/10.1021/es300048y (2012)
2. Erten, M.B., R. Gilbert, C.S. El Mohtar, D.D. Reible. The Performance of Organophilic Clay on NAPL Contaminated Sediments under Anisotropic Consolidation, Accepted *Journal of ASTM International* (2012)
3. Rosen, G, D.B. Chadwick, G.A. Burton, W.K. Taulbee, M.S. Greenberg, G.R. Lotufo and D.D. Reible (2011) A sediment ecotoxicity platform for in situ measures of chemistry bioaccumulation and toxicity. Part 1. System description and proof of concept, *Environmental Pollution*, (Nov 2011)
4. Rosen, G, D.B. Chadwick, G.A. Burton, W.K. Taulbee, M.S. Greenberg, G.R. Lotufo and D.D. Reible (2011) A sediment ecotoxicity platform for in situ measures of chemistry bioaccumulation and toxicity. Part 2. Integrated application to a shallow estuary, *Environmental Pollution*, (Nov 2011)
5. Lampert, D.J., W.V. Sarchet, D.D. Reible. Assessing the Effectiveness of Thin-Layer Sand Caps for Contaminated Sediment Management through Passive Sampling, *Environ. Sci Technol.*, 45 (19), pp 8437–8443 (2011)
6. Erten, M.B., R. Gilbert, C.S. El Mohtar, D.D. Reible, Development of a laboratory procedure to evaluate the consolidation potential of soft contaminated sediments, *Geotechnical Testing Journal*, Accepted manuscript online 7/16/2011 (2011)
7. Hong, YS., K. A. Kinney, D.D. Reible Effects of cyclic changes in pH and salinity on metals release from sediments, *Environ. Toxicology and Chemistry*, Volume 30, Issue 8, Pages: 1775–1784 (2011)
8. Gschwend, P.M, J. K. MacFarlane, D.D. Reible, X. Lu, S.B. Hawthorne, D. V. Nakles, and T. Thompson Comparison of PDMS-, POM- and LDPE-based polymeric samplers for accurately assessing PCBs in sediment pore waters , *Environ. Toxicology and Chemistry*, 30, Issue 6, June 2011, Pages: 1288–1296, (2011).

9. Lu, X., B. Drake, A. Skwarski, D. Reible, Predicting bioavailability of PAHs and PCBs with pore water concentrations measured by disposable solid-phase micro-extraction fibers, *Environ. Toxicology and Chemistry*, 30, Issue 5, May 2011, Pages: 1109–1116 (2011).
10. Hong, YS, K. Kinney, D. Reible, Acid Volatile Sulfides Oxidation and Metals (Mn, Zn) Release upon Sediment Resuspension: Laboratory Experiment and Model Development, *Environ. Toxicology and Chemistry* 30, Issue 3, March 2011, Pages: 564–575 (2011).
11. Sun, M., F. Yan, R. Zhang, D. D. Reible, G.V. Lowry, K.B. Gregory, Redox Control and Hydrogen Production in Sediment Caps Using Carbon Cloth Electrodes, *Environ Sci and Technol.* 44 (21), 8209–8215 (2010).
12. Johnson, N., D.D. Reible, L. Katz, Biogeochemical changes and mercury methylation beneath an in-situ sediment cap, *Environ. Sci. Technol.*, 44 (19), 7280–7286 (2010)
13. Ma, X., D.D. Reible, M. Harris, Assessing the feasibility of in-situ capping and contaminant mobility in NAPL-contaminated sediments, *International Journal of Geotechnical Engineering*, 4, 71-78 (2010).
14. Yuan, Q., K.T. Valsaraj, D.D. Reible, A Model for Contaminant and Sediment Transport via Gas Ebullition through a Sediment Cap, *Environmental Engineering Science* , 26, 9 1381-1391 (2009)
15. Lampert, D.J., D. D. Reible, An Analytical Modeling Approach for Evaluation of Capping of Contaminated Sediments, *Soil and Sediment Contamination: An International Journal*, 18, 4, 470-488 (2009)
16. Go, J., D.J. Lampert, J.A. Stegman, D.D. Reible, Predicting contaminant fate and transport in sediment caps: Mathematical modeling approaches, *Journal of Applied Geochemistry*, 24, 7, 1347-1353 (2009)
17. Barth, E., D. Reible and A. Bullard, Evaluation of the physical stability, groundwater seepage control, and faunal changes associated with an AquaBlok® sediment cap, *Remediation: The Journal of Environmental Cleanup Costs, Technologies and Techniques*, 18, 4, Fall (2008) (p 63-70)
18. Knox, A.S., M.H. Paller, D.D. Reible, X.Ma, I.G. Petrisor, “Sequestering Agents for Active Caps-Remediation of Metals and Organics”, *Soil and Sediment Contamination*, 17 (5) 516-532 (2008)
19. Gustavson, K.E., G.A. Burton, N.R. Francinques, D.D. Reible, D.J. Vorhees, J.R. Wolfe, “Evaluating the effectiveness of contaminated sediment dredging”, *Environmental Science and Technology*, 42, 14, 5042-5047 (2008)
20. Liu, J., D. Reible, KT Valsaraj, R. Delaune, I Devai, “Observations of mercury fate and transport beneath a sediment cap”, *Land Contamination and Reclamation* (2008)
21. Reible, D.D. “Hurricane Katrina: Environmental Hazards in the Disaster Area,” *Cityscape*, November, 2007
22. Yuan, Q., KT Valsaraj, DD. Reible and CS Willson, “A laboratory study of sediment and contaminant release during gas ebullition,” *Journal of the Air and Waste Management Association*, 59, 9 (2007)
23. Chai, Y., A. Kochetkov, D.D. Reible, The Use of Coarse, Separable, Condensed-Phase Organic Carbon Particles to Characterize Desorption Resistance of Polycyclic Aromatic Hydrocarbons in Contaminated Sediments, *Environmental Toxicology and Chemistry*, 26 , 7 1380-1385 (2007)
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39. Valsaraj, K.T., R. Ravikrishna, D. Reible, L.J. Thibodeaux, T.E. Myers, C.B. Price, J.M. Brannon, "Air Emissions from Contaminated Sediments and Dredged Materials," Proceedings of the WERC/HSRC '97 Joint Conference on the Environment, Albuquerque, NM, April 1997.
40. Shephard, A., D.D. Reible, J. Fleegeer, K.T. Valsaraj and L.J. Thibodeaux, "Fate of Pyrene during Oligochaete Bioturbation," Proceedings of the WERC/HSRC '97 Joint Conference on the Environment, Albuquerque, NM, April 1997.
41. Choy, B., B. Walsh, D.D. Reible, K.T. Valsaraj and L.J. Thibodeaux, "Effects of Vapour Diffusion and Capillary Suction on the Transport of Volatile NAPL in a Sediment Column," Proceedings of the WERC/HSRC '97 Joint Conference on the Environment, Albuquerque, NM, April 1997.

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49. Valsaraj, K.T., L.J. Thibodeaux, D.D. Reible, J.M. Brannon, T.E. Myers and C.B. Price, "Volatile Chemical Emissions from Contaminated Dredged Materials: Laboratory Measurements and Models", Proceedings of the Air and Waste Management Association, 1996.
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51. Thibodeaux, L.J., K.T. Valsaraj, D.D. Reible and J.M. Brannon, "Modeling Air Emissions from Contaminated Dredged Materials," Proceedings of EPA RREL Research Symposium, April 1995, Cincinnati, OH.
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53. Myers, T.E., D.D. Reible and D.E. Averett, "Recent Advancements in Comprehensive Analysis of Migration Pathways (CAMP)", Proceedings of Dredging '94, November 1994, Orlando, FL.
54. Thibodeaux, L.J. D.D. Reible and K.T. Valsaraj, "Capping Contaminated Sediments- The Theoretical Basis for Chemical Containment", Proceedings of Dredging '94, November 1994, Orlando, FL.
55. Thibodeaux, L.J. D.D. Reible and K.T. Valsaraj, "So You Want to Remediate Contaminated Mud! These are Your Five Choices", Proceedings of Dredging '94, November 1994, Orlando, FL.
56. Reible, D.D, G. Thoma, " In-Situ Capping for the Remediation of Contaminated Sediments," Proceedings of CHEMECA 94, September, 1994, Perth, Australia.

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58. Reible, D.D., L.J. Thibodeaux, K.T. Valsaraj and J.W. Fleeger, "Pollutant Fluxes to Aquatic Systems via Coupled Biological and Physicochemical Bed Sediment Processes", Proceedings of the IAWQ First International Specialized Conference on Contaminated Aquatic Sediments: Historical Records, Environmental Impact, and Remediation, Milwaukee, WI, June 14-16, 1993.
59. Valsaraj, K.T., G.J. Thoma, D.D. Reible, and L.J. Thibodeaux, "Transport of Colloids from Bed Sediment", Proceedings of the IAWQ First International Specialized Conference on Contaminated Aquatic Sediments: Historical Records, Environmental Impact, and Remediation, Milwaukee, WI, June 14-16, 1993.
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61. Reible, D.D., G.J. Thoma, K.T. Valsaraj, L.J. Thibodeaux and D. Timberlake, "Procedures for Selection and Design of a Cap for In-Situ Treatment of Contaminated Sediment," Proceedings of the EPA RREL Symposium, Cincinnati, OH, April 14-16, 1993.
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63. McCutcheon, S.C. and D.D. Reible, "Benthic Exchange of Toxic Contaminants", published in the Proceedings of the ASCE, Hydraulics Division Special Conference, August, 1992, Baltimore, MD.
64. Reible, D.D., Evaluation of Contaminant Losses from Components of Remediation Alternatives for Contaminated Sediment, Final Report to Batelle/Army Research Office, June 1992
65. Tittlebaum, M., D.D. Reible and R. Thompson (LaTech) Evaluation of Potential Hazard Exposure Resulting from DOE Waste Treatment and Disposal at RES, Final Report to the US Department of Energy, April 1992
66. Illangasekare, T.H., D. Znidarcic, M. Al-Sheridda and D.D. Reible, "Multiphase Flow in Porous Media," in the Proceedings of International Centrifuge Conference, H.Y. Ko and F.G. McLain, Ed. (1991).
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72. Reible, D.D. and T.H. Illangasekare, "Transport of Lighter than Water Nonaqueous Phase Liquids in and above Water Table Aquifers: Experiments, Modeling and Parameter Estimation", Proceedings of the Third Annual Symposium on Hazardous Waste Research, Baton Rouge, LA, October 18-19,1989.
73. Reible, D.D. and T.H. Illangasekare, "Modeling Transport of Multiphase Subsurface Contaminants", Proceedings of the Second Annual Symposium on Hazardous Waste Research, Baton Rouge, LA, October 25-26, 1988.
74. Reible, D.D. and T.H. Illangasekare, "Two Dimensional Transport of Concentrated Organic Waste in Ground Water", published in the Proceedings of the International Conference on Groundwater Contamination: Use of Models in Decision Making, Amsterdam, October, 1987, International Groundwater Modeling Center, Martinus Nijhoff.
75. Chitgopekar, N.P., D.D. Reible and L.J. Thibodeaux, "A Model for describing Short Range Dispersion near Area Sources of Toxics", Proceedings of the LSU HWRC Symposium on Hazardous Waste Research, Baton Rouge, LA, October 20-21, 1987.
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78. Reible, D.D., "Subsurface Contamination by Multiphase Processes: Research and Policy Implications for the EPA", AAAS Environmental Science and Engineering Fellows Program Report, EPA, Washington, D.C., August 1987.
79. Illangasekare, T.H., P. Brody and D.D. Reible, "A Study of Two-dimensional Transport of Concentrated Organics in Saturated and Unsaturated Soils", Proceedings, AGU Front Range Branch Hydrology Days, Ed. H.J. Morel-Seytoux (1987)
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81. Reible, D.D. and T.H. Illangasekare, "Development and Experimental Verification of a Model for Transport and Entrapment of Concentrated Organics in the Unsaturated Zone", published in Petroleum Hydrocarbons and Organic Chemicals in Ground Water: Prevention, Detection, and Restoration, NWWA (1986)
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84. Dean, J.D., D.F. Atwood, A.S. Dorigan, F.R. Groves, D.D. Reible, L.J. Thibodeaux, P.S.C. Rao, and J.R. Withey, "Exposure Assessment involving Mixtures of Environmental Pollutant" Final Report to the

USEPA on Contract No. 68-03-3116 December 1984.

85. Reible, D.D., D.M. Wetzel, R.S. Willms, A.K. Martin and D.P. Harrison, "Soil Detoxification using Modified Wet-Air Oxidation", Final Report to USEPA on Contract No. 68-03-3014, July, 1984.
86. Wetzel, D.M. and D.D. Reible, "Alternative methods for the destruction of hazardous wastes", Final Report to the LSU Hazardous Waste Research Center, January 1983.
87. Reible, D.D. and D.M. Wetzel "A Literature Survey of Three Selected Hazardous Waste Destruction Techniques," Proceedings of the Ninth Annual Research Symposium on Land Disposal of Hazardous Waste, US EPA, Municipal Environmental Research Laboratory, Cincinnati, Ohio 45268, 408-414 (1983)
88. Reible, D.D., F.H. Shair, T.B. Smith and D.E. Lehrman, "A Study of the Origin and Fate of Air Pollutants in California's Sacramento Valley", Final Report to the California Air Resources Board, December 1981.
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90. Reible, D.D., F.H. Shair, T.B. Smith and D.E. Lehrman, "A Study of Transport into, within and out of Coastal Areas of Southern Santa Barbara County and Ventura County", Final Report to the Ventura Air Pollution Control District, June 1981.

### III. GRANTS AND CONTRACTS

Reible, D.D.(PI), L. Katz , Laboratory investigation of mercury biogeochemistry (2011-2013) Industrial Sources 825K

Reible, D.D. (PI), Technical Support for Laboratory and Field Investigations of Sediment Capping (2011-2012) USACE, 245K

Reible, D.D. (PI) Passive sampling for the assessment of cap performance (2009-2012) USACE (Seattle District) 155K

Reible, D.D. (PI) Technology transfer supplement for funnel and gate innovations for containment and treatment of contaminated sediments (2010-2012) NIEHS 300K

Reible, D.D. (PI) Evaluation of sorption material for contaminated sediment caps, 2009-2010 EPA 750K (440K, UT)

Reible, D.D. (PI) Organoclay for sorption of chlorinated benzene wastes, 2009-2010 DuPont, 75K

Reible, D.D. (PI) DGT for the monitoring of mercury in interstitial waters, 2009-2012 DuPont 157K

Reible, D.D. (PI) J. Hughes, G. Lowry, Funnel and gate innovations for containment and treatment of contaminated sediments (2007-2011) RO1 900K

Burken, J.G, A.C. Elmore, D. Summers, D. Reible (co-PI), Remediation of contaminated sediments using waterjet amendment (2007-2010) RO1co-PI 450K (75K UT share), Supplemental funding of 160 K (38K UT, 2010-2011)

Reible, D.D. (PI), M.J. Kirisits, K. Kinney and G. Speitel, Biodegradation in sediment caps: bench scale testing ,Parsons (2007-2012) \$620K

Reible, D.D. Laboratory studies of organoclay for MGP wastes EPRI (2007-2010) \$115K

Knox, A, D.D. Reible (Co-PI), and I. Petrisor, Innovative in-situ remediation of contaminated sediments for simultaneous control of contamination and erosion SERDP (2006-2010) \$990,000 (\$325,000 UT)

Reible, D.D. (PI) and G. Lotufo, Demonstration and evaluation of solid phase microextraction for the assessment of bioavailability and contaminant mobility ESTCP (2006-2009) \$778,000 (\$478,000 UT)

Reible, D.D. Evaluation of capping of citgo calcasieu estuary lagoon URS (2006) \$92,500

Reible, D.D. Gift- Development of active capping, CETCO, (2005) \$30,000 renewed for \$35,000 each year 2006, 2007, 2008 and 2010, \$45,000 2011

Reible, D.D. Bioavailability of desorption resistant contaminants, EPA through LSU \$181,000 (1/05-1/06)

Reible, D.D. Monitoring cap performance – Anacostia active capping demonstration Washington DC through LSU, \$336,834 (11/04-11/07)

Reible, D.D. Evaluation of organoclay as an amended cap material, Oregon Department of Environmental Quality \$75,000 (9/04-6/05) Renewed \$36,352 (6/06-9/06 ) Renewed \$78,000 (8/08-8/09), Renewed \$72,000 (8/09-6/10), Renewed \$82,000 (7/10-6/11)

Reible, D.D (PI) Valsaraj, K.T Evaluation of capping of the CITGO surge pond and lagoon, URS, \$84,881 (2004-2005)

Reible, D.D. (PI) DeLaune, R., Valsaraj, K.T. Evaluation of capping of pompton lake acid brook delta mercury deposits, Dupont \$105,693 (2004-2005)

Reible, D.D., J. Pardue, W. Moe, F. Rainey, Enhancement of the biotechnology initiative of the hazardous substance research center, Louisiana Biotechnology Initiative, \$285,000 (capital), \$235,000 (annual recurring funds 1/03-1/08)

Reible, D.D. Field demonstration of “active” caps, District of Columbia  
\$2.25 Million (10/01-9/02)  
\$993,500 (10/02-9/03)  
\$500,000 (10/03-9/04)  
\$500,000 (10/04-9/05)

Reible, D.D., In situ assessment and remediation of contaminated sites, pan american advanced studies institute, National Science Foundation, \$90,000 (10/01-9/02)

Reible, D.D. Technical assistance for brownfields, US EPA,  
\$150,000 (10/01-9/02)  
Renewed \$155,000 (10/02-9/03)  
\$450,000 (10/03-9/05)

Reible, D.D., Hazardous Substance Research Center/S&SW, US EPA, \$4.5 Million (10/01-9/06)

Reible, D.D., K. Demnerova, In-situ assessment and remediation of contaminated sites, NATO Advanced Study Institute, 3.04 MM Belgian Francs (5/00-6/01)

Reible, D.D., Bioavailability of desorption resistant organic contaminants, Defense Special Weapons Agency, \$ 1.377 MM (10/98-10/01)

Thibodeaux, L.J., D.D. Reible, and K.T. Valsaraj, Effectiveness of environmental dredging, Alcoa, \$99,000

(1/98-1/01)

Reible, D.D., Hazardous Substance Research Center/S&SW, US EPA, \$4.487 Million (10/97-9/01)

Reible, D.D., Technical outreach service to communities - collateral award, US EPA, \$1,168,761 (10/97-9/01)

Walk Haydel, Alpine Geophysics, LLC, LSU, Nash Roberts, Tracer ES&T, Breton Aerometric Monitoring Program, 1 MMS (LSU First Phase, 9/97-2/98, ~ \$50,000).

Work, P., D.D. Reible, Assessment of the effect of bioturbation on advective contaminant exchange at the sediment-stream interface, Water Resources Research Institute, 9/96 - 8/98, \$92,239 (LSU \$21,000).

Valsaraj, K.T., L.J. Thibodeaux, D.D. Reible and J. Brannon, Modeling of air emissions from contaminated dredged materials, LSU HSRC and US Army, 6/94-5/97, \$275,000, renewed 10/97-9/98, \$100,000.

Reible, D.D., L.J. Thibodeaux and K.T. Valsaraj, Placement and effectiveness of capping for the remediation of contaminated sediment, LSU HSRC, 5/1/95-4/30/97, \$200,000

Reible, D.D., Sediment remediation by capping, US EPA Risk Reduction Engineering Laboratory, 9/92-8/94, \$190,000, Renewal 9/94-8/97 with Louis Thibodeaux, \$120,000

McIlhenny, R. and D.D. Reible, Closeout foam modeling, Martin-Marietta Manned Space Systems, 7/1/92-12/18/92, \$25,000

Reible, D.D., Contaminant losses from confined disposal facilities, US Army Research Office, 8/1/92-7/31/95, \$65,903

Reible, D.D., Evaluation of contaminant losses from components of remediation alternatives for contaminated sediment, US Army Corps of Engineers, 3/92 - 7/93, \$31,000

Reible, D.D., K.T. Valsaraj, L.J. Thibodeaux and T.E. Myers, Investigation chemical transport from contaminated sediment through porous containment structures, EPA through LSU Hazardous Substances Research Center (HSRC), 2/1/92-2/1/95, \$220,000

Reible, D.D., K.T. Valsaraj, L.J. Thibodeaux and J.W. Fleeger, Pollutant fluxes to aquatic systems via coupled biological and physicochemical bed sediment processes, LSU HSRC, 2/1/92-2/1/95, \$250,000 Renewal, 5/1/95-4/30/97, \$200,000, renewed 10/97-9/98, \$85,000.

Thibodeaux, L.J., D.D. Reible and K.T. Valsaraj, Transport processes through interfaces, membranes and porous media ,NSF/LASER-EPScOR, 1/1/92-1/1/96, \$450,000

Tittlebaum, M., D.D. Reible and R. Thompson (LaTech) Evaluation of potential hazard exposure resulting from doe waste treatment and disposal at res, US Department of Energy, 8/91-1/92, \$167,001

Reible, D.D., Evaluation of contaminant losses from components of remediation alternatives for contaminated sediment, Batelle/Army Research Office, 1/91-6/92, \$30,000

Thibodeaux, L.J., D.D. Reible, K.T. Valsaraj and X.Q. Wang, Experimental studies on the efficiency of capping contaminated bed sediment in-situ, LSU Hazardous Waste Research Center (HWRC), 1/11/90-1/10/93, \$145,000

Reible, D.D. and T. Illangasekare, Transport of concentrated organics in the unsaturated and saturated zones below spill and dump sites, EPA and LSU HWRC, 1/86-1/93, \$354,000, \$20,000 direct EPA

Constant, W.D., D.D. Reible, W. Bernard and S. Field, Evaluation of the mechanisms and rate of transport in deep-well injection strata, Underground Injection Practices Council and LA Chemical Assoc., 4/1/89-8/15/91, \$75,000

McIlhenny, R.C. and D.D. Reible, Optimized computer-aided design for reaction-injection molding, LA Educational Quality Support Fund (LEQSF), 7/1/87-12/30/90, \$280,000

Collier, J.R., D.D. Reible and F.C. Knopf, Advanced materials characterization, manufacturing and processing, LEQSF, 7/1/89-6/30/90, \$285,000

Reible, D.D., J.R. Collier and D.Nikitopoulos, Image analysis system, ARCO Chemical Company Foundation, 1/1/90-7/1/90, \$20,000

Reible, D.D. and L.J. Thibodeaux, An experimental study for short range air dispersion of toxics from area sources, EPA and LSU HWRC, 1/1/86-1/1/89, \$122,000, \$75,000 EPA direct

Thibodeaux, L.J. and D.D. Reible, Laboratory investigation of the natural recovery processes of marine sediment contaminated during off-shore drilling activities, LSU Center for Energy Studies (CES), 8/1/86-7/1/87, \$21,203

Reible, D.D., Characterization of the transport and dispersion of the stack gases from the Lake Charles coal-fired power plant of Gulf States Utilities, Gulf States Utilities and LSU CES, 7/1/83-1/1/86, \$62,000

#### **IV. PARTICIPATION AT PROFESSIONAL MEETINGS**

A. Presentations: More than 200 presentations at regional, national and international technical meetings

B. Chairman of Technical Symposia

Chair of Symposia "Contaminant Transport and Site Remediation" AIChE Annual Conference, November 2011

Chair of Symposia "Bioavailability of Sediment Contaminants" Battelle International Sediments Conference, February 2011

Chair of Symposia "Environmental Transport and Remediation of Contaminated Sites" Annual Meeting of AIChE, November 2010

Chair of Symposia "Assessment of Bioavailability in Contaminated Sediments" SETAC Annual Meeting, November 2009

Chair of Symposia "Environmental Transport and Remediation of Contaminated Sites" Annual Meeting of the AIChE, November 2009

Chair of Symposia "Passive Sampling for the Assessment of Bioavailability" Annual Meeting of SETAC, Tampa, FL, November 2008

Chair of Symposia "Capping Contaminated Sediments" Annual Meeting of SETAC, Tampa, FL, November 2008

Chair of Symposia "Fate and Transport of Contaminants" Annual Meeting of the AIChE, Philadelphia PA, November 2008

Chair of Symposia "Active Capping of Contaminated Sediments," International Battelle Conference on Contaminated Sediments, Jacksonville, FL, January 2008

Chair of Symposia “Contaminated Sediment Capping”, International Battelle Conference on Contaminated Sediments, Savannah, GA February 2007

Chair of Symposia “Fate and Transport of Contaminants”, Annual Meeting of the AIChE, San Francisco, CA, November 2006

Chair of Symposia “Site Assessment and Remediation” and “Managing Contaminated Sediments”, Annual Meeting of the AIChE, Cincinnati, OH, November 2005

Chair of Symposium “Environmental Transport and Fate of Chemicals,” Annual Meeting of the AIChE, Austin, TX, November 2004

Chair of Symposium “Chemodynamics”, Annual Meeting of the AIChE, San Francisco, CA November, 2003.

Chair of Symposium “Environmental Transport Processes- Experiments and Modeling”, Annual Meeting of the AIChE, Indianapolis, IN, November, 2002.

Chair of Symposium “Evaluation of Multimedia and Transport Processes,” Annual Meeting of the AIChE, Los Angeles, CA, November 2000

Chair of Symposium “ Bioavailability of Organic Contaminants in Sediments,” National Meeting of the Society for Environmental Toxicology and Chemistry, Philadelphia, PA, November, 1999

Chair of Symposium “Environmental Issues on the Gulf Coast”, National meeting of the American Chemical Society, New Orleans, LA, August 1999.

Chair of Symposium “Exposure, Risk Assessment and Risk Management”, Annual Meeting of the AIChE, Miami, FL, November 1998 and Annual Meeting, Dallas, Tx, November 1999.

Chair of Symposium “Managing Contaminated Sediments- What are the Options”, National meeting of the American Institute of Chemical Engineers, New Orleans, LA February, 1998

Chair of Session on Environmental Engineering, CHEMECA ‘94, Perth, Australia, September, 1994

Second Vice-Chair, First Vice-Chair, Chair and Past Chair of the Executive Board of the National Programming Committee of AIChE

Meeting Program Chairman, San Diego AIChE Summer National Meeting, August, 1990. The most successful AIChE Summer Meeting ever with more than 2700 people attending a technical program of 100 sessions focused on the environment, energy and safety.

Chairman of symposium on Remediation of Contaminated Sediments, AIChE National Meeting, August, 1992, Minneapolis, MN.

Vice-Chairman of symposium on Soils and Sediments, AIChE Annual Meeting, November, 1989, San Francisco, CA

Chairman of symposium on Non-Aqueous Phase Liquids in Soils, AIChE Spring National Meeting, April, 1989, Houston, TX.

Chairman of symposium on Chemical Engineering Fundamentals Applied to the Environment, AIChE Spring National Meeting March 1986, New Orleans, LA.

Chairman of symposium on Chemical Engineering Fundamentals Applied to the Environment, AIChE Summer National Meeting, August 1986, Boston, MA.

Chairman of symposium on Liquid Phase Oxidation of Wastewaters, AIChE Summer National Meeting, August, 1986, Boston, MA.

## V. OTHER SCHOLARLY OR CREATIVE ACTIVITIES

### A. Consulting (latest projects listed first)

Remedial planning, Grand Island Bay, LA

Remedial options – Gowanus canal, NY

Remedial planning - Escanaba, MI

Remedial planning TYCO Ansul facility, Menominee, WI

Research for a sustainable future for Qatar for the Qatar Foundation

Technical resource, Grasse River remedial planning, Massena, NY

Capping component of Hudson River remediation, New York

Remedial planning for Cavendish Forest Products Facility, Gulfport MS

Willamette River Remedial Planning, Portland, OR

Expert Witness for Ammonia Release, Syngenta, San Gabriel, LA

Remedial planning of Zidell Marine Services, Willamette River, Portland OR

Expert witness for EDC spill Conoco Refinery, Lake Charles, LA

Containment and restoration planning of mercury containing submarine, U-864,

Assessment and remedial planning, Berry Creek, Meadowlands, NJ

Remedial planning for Gas Works Site, Seattle, WA

Preliminary review, natural resource damages, Hudson River, Fort Edwards, NY

Remedial planning, Fox River, Green Bay, WI

Preliminary remedial planning, Titabawasee River Remediation, Midland, MI

Expert Witness for Chemical Plant Fire in Lake Charles, LA

Consulting for Geodesign on Ross Island monitoring, Portland, OR

Expert Witness for gasoline spill and fire, Shreveport, LA

Expert Witness for Dioxin transport and fate in the atmosphere, Delisle, MS

Review of remedial plans, Sydney Tar Ponds, Canada

Review of remedial plans for Silver Lake, MA

Review of remedial plans for Hastings Site, Hudson River, NJ

Remedial planning for Jersey City Chromium contaminated site, NY

Peer review of Grasse River capping demonstration ice scour, Massena, NY

Remedial planning Onondaga Lake, Syracuse NY

Review of remedial plans, Thea Foss Waterway, Tacoma, WA

Expert witness on phenol fire release and exposures, Plaquemine, LA

Expert witness on leaking underground storage tank in Monroe, LA

Expert witness on acid gas release and exposures, San Gabriel, LA

Expert witness on trimethylamine chemical release in San Gabriel, LA

Expert panel developing remedial plans for the Lower Fox River- Appleton Paper, WI

Remedial planning - Citgo/Occidental Corporations, Lake Charles, LA

Expert witness on exposure and impact of contaminant migration from Bayou Sorrel landfill

Expert witness on ammonia releases from chemical facilities in San Gabriel, Louisiana

Expert witness on emergency release of allyl chloride from a chemical facility in Pearl River, Louisiana

Remedial planning and review of capping of Pine Street Canal sediments, Burlington, VT

Expert witness on grain dust dispersion around a grain elevator, Louisiana

Review Panel, Feasibility Study for National Resource Damage Assessment, Fox River, WI

Peer reviewer for EPA Technical Services Center

Expert witness on dispersion of combustion products from rail tank car fire, New Orleans, LA

Consultant on regulation of oilfield wastes, LA Department of Natural Resources

Consultant on soil contamination by aviation fuels, Macot (Sydney,Aust) Airport

Expert consultant on environmental exposures, Novartis, Corp.

Expert witness on stack dispersion of sulfur dioxide and hydrogen sulfide, Chalmette, LA

Expert witness on sulfuric acid fume emissions and downwind dispersion, Norco, LA

Consultant on assessment of soil contaminated with gasoline, Cooma, NSW, Tweed Heads, NSW, and Trial Bay, NSW, Shell Australia and CALTEX

Consultant on off-site migration of oil-field waste contaminants, Cambell Wells, Inc.

Expert witness on resident's exposure to refinery explosions and fires, Chalmette, LA

Consultant on dispersion of carbon monoxide at exits of roadway tunnel in Sydney, NSW, GHD Pty Ltd.

Consultant on assessment of contaminated sediments in Homebush Bay, Sydney, Australia, CH2M-Hill

Consultant on atmospheric dispersion of styrene for Australian Defense Industries

Consultant on sediment contamination in Sydney Harbor, CH2M-Hill.

Consultant on estimating equilibrium properties of environmental pollutant mixtures for Anderson-Nichols,

Consultant on gasoline movement from leaking underground storage tanks for CDM, PEI and the EPA.

Panel reviewer of EPA programs on leaking underground storage tanks

Review of EPA screening models for oily wastes applied to landfills.

Consultant on groundwater remediation plans for BASF Corporation

Consultant and expert witness on groundwater contamination , LA Superfund sites

Consultant on oily wastes in surface waters for Aqua-Terra Corp. and the EPA.

Consultant on oily discharges from landfills for Aqua-Terra, Inc. and the US EPA

Consultant and peer reviewer on in-situ vacuum extraction of mixed wastes at INEL

Consultant on soil fumigants and methyl bromide releases to the environment

#### B. Short Courses

Smart from the Start: Addressing Wicked Problems at Contaminated Sediment Sites for EPA  
April 2011 – Chicago IL  
May 2011 – New York, NY  
June 2011 – Seattle, WA

CETCO Remediation University  
November 2008 Newark, NJ  
November 2009 Portland, OR  
October 2010, San Francisco, CA

Contaminated Sediments: What are the options and how do we select them?  
September 2007 Portland OR  
October 2007 Atlanta GA

Remediation of Contaminated Sediments  
EPA Region 1, August 2005, Boston MA  
EPA Region 2, October 2005, New York, NY  
EPA Region 5, November 2005, Chicago, IL

Contaminated Sediments, October 15, 2000, 16<sup>th</sup> Annual International Conference on Contaminated Soils, Sediments and Water, Amherst, MA

Bioavailability - How Clean is Clean, October 9, 1999, Water Environment Federation WEFTEC Workshop, New Orleans, LA

Chemical Dynamics and Site Assessment, February 7-10, 1995, Hong Kong Polytechnic University, Hong Kong

Chemical Dynamics in the Environment, December 5-9, 1994, Hotel Konrad, Broadbeach, Queensland, Australia.

Chemodynamics, December 6-7, 1982, LSU (with Dr. T. Marrero, U of Missouri, and Dr. L. Thibodeaux, U of Arkansas)

Hazardous Waste- Movement of Chemicals in Air, Water and Soil, June 11-12, 1985 and March 18-19, 1986, LSU (with Dr. T. Marrero, U of Missouri and Dr. L. Thibodeaux, LSU)

Transport and Fate of Chemicals in the Environment, AIChE Continuing Education Course, Taught 1-2 times per year (with L. Thibodeaux and J. Clarke)

### C. Other Professional Activities

Faculty Advisor, LSU student chapter of AIChE (1984-1987)

Faculty Advisor and Founder, LSU student chapter of Omega Chi Epsilon

President, LSU Zenith Users Group (1984-1989)

Reviews of papers for, Nature, AIChE Journal, Chemical Engineering Communications, Chemical Engineering Journal, Chemosphere, Journal of Environmental Quality, International Journal of Soil and Sediments, Journal of the Air and Waste Management Association, International Journal of Exposure Assessment and Monitoring, Journal of Environmental Engineering, Journal of Environmental Forensics, Journal of Hydraulic Engineering, Journal of Hazardous Materials, Journal of Nanoparticle Research,

Boundary Layer Meteorology, the Soil Science Journal of America, American Chemical Society, Environmental Science and Technology, Water Research, Water Resources Research, Water Science and Technology, Heat Transfer Engineering, International Journal of Heat and Mass Transfer and the American Society of Mechanical Engineers, books for the AIChE Journal and Waste Management, reports for the U.S. Department of Interior and the US Environmental Protection Agency and proposals to the Civilian Research and Development Foundation, Environmental Protection Agency, National Science Foundation, Strategic Environmental Research and Development Program, Canadian Foundation for Innovation, Hudson River Foundation, New Mexico Water Resources Institute, West Virginia and South Carolina EPSCoR programs and the LSU Center for Energy Studies.

## **VI. INVITED LECTURES**

Chemical Engineering at the Sediment-Water Interface, 14<sup>th</sup> Asian Pacific Confederation of Chemical Engineering (APCChe), Singapore, Feb 2012

Greening Solid Waste Management Operations, Plenary Lecture, International Solid Waste Association, Daegu Korea, October 2011

The Aftermath of the Deepwater Horizon Spill, Plenary Lecture, 2011 National Environmental Measurement Conference, Seattle, WA Aug 2011

Biotransformation and Biodegradation Processes in Sediment Caps, Plenary Lecture, 5<sup>th</sup> European Conference on Bioremediation, Chania, Crete, July 2011

Assessing and Managing Contaminated Sediments, Dalian University, Dalian, China, June 2011

Biotransformation and Biodegradation Processes in Sediments, World Congress on Marine Biology, Dalian, China, May, 2011

Assessing and Managing Contaminated Sediments, Tsinghua University, Beijing, China, June 2011

Biotransformation and Biodegradation Processes in Sediment Caps, Plenary Lecture, 14th International Biotechnology Symposium, Rimini, Italy, September 2010

Assessing and Managing Contaminated Sediments, Nanqiang Lecture, Xiamen University, June 2010

Assessing and Managing Contaminated Sediments, Yangtze University, June 2010

Assessing and Managing the Bioavailability of Sediment Contaminants, University of Iowa, December 2009

Passive Sampling for the Assessment of Mobility and Availability of Contaminants”  
Missouri University of Science and Technology, September 2008  
University of Maryland, Baltimore County, November 2008

Design Considerations for Active Sediment Caps, Plenary Lecture at 1<sup>st</sup> International Conference on Hazardous Waste management, Crete, September 2008

“Availability and Mobility of Contaminants in Sediments”  
University of Minnesota, Minneapolis, MN, November 2007  
Utrecht University, Utrecht, Netherlands October 2007  
Johns Hopkins University, Baltimore, MD, October 2007

“Managing Sediment Contaminants”, Southwest Research Institute, San Antonio, TX, April 2007

“Availability and Mobility of Contaminants in Sediments”, University of Texas San Antonio, March 2007

“Defining the Availability of Contaminants in Sediments”, University of Texas Marine Science Institute, Port Aransas, TX, 12/ 2006

“Passive Sampling for the Assessment of Bioavailability in Sediments”, Partners in Environmental Technology Forum, Washington DC 12/2006

“Contaminated Sediment Management”, Texas A&M Kingsville, 11/2006

“Engineering and Policy Lessons Learned from Hurricane Katrina,”  
University of Sydney, AUS 10/2006  
University of New South Wales, Sydney, AUS 10/2006

“Defining the Availability of Contaminants in Sediments”, Nankai, University, Tianjin, China, 9/2006

“Managing Contaminated Sediments”, Tianjin University, Tianjin, China, 9/2006

“Bioavailability and bioaccumulation of PAHs in sediments“  
Texas Tech University, 2/2006  
Arizona State University, 2/2006

“Defining the availability of contaminants in sediments”, University of Buffalo, 11/2005

“Bioaccumulation and bioavailability of contaminants in sediments”, Jackson School of GeoSciences, October 2005

“Managing Risks from Contaminated Sediments”, University of Guadalajara, Guadalajara, Mexico January 2005

“Benthic Organisms and Contaminant Flux, Uptake and Availability” American Society of Limnology and Oceanography, Honolulu, Hawaii, February, 2004

“Bioavailability of Contaminants in Sediments”, Rice University, March 2004

“Contaminated Sediments: Are We Managing?”, University of Texas, Austin, January 2004

“Contaminated Sediments: The Role of Sequestration and Availability in Defining Risk”, University of Texas, Austin, December 2003

“Sequestration and Bioavailability of PAHs in Sediments”,  
3/03 - University of South Carolina  
12/02 - University of Texas at El Paso  
11/02 - University of Michigan  
10/02 - Mississippi State University

“Bioavailability and biodegradation of PAHs by benthic organisms” 10<sup>th</sup> International Biotechnology and Bioremediation Symposium, July 2002, Prague, Czech Republic

“Where do we go from here?” University of Arkansas, April 2002.

“Sequestration and Bioavailability of PAHs in Sediments,” American Geophysical Union Annual Meeting, San Francisco, CA, December 2000

“Sequestration and Bioavailability of PAHs in Sediments,” Hanyang University, Seoul, Korea, November 2000

“Trends in Industrial Waste Mangement in the United States,” Invited Lecture, Korean Solid Waste Engineering Society, Taegu, Korea, November 2000

“Management of Oil and Gas Exploration and Production Waste,” Kyongii University, Seoul, Korea, Anyang University, Anyang, Korea and Korean Solid Waste Engineering Society, Taegu, Korea, November 2000

“Contaminated Sediment Management - Still an Oxymoron”, Korean Environment Institute, Seoul, Korea, November 2000

“Sequestration and Bioavailability of PAHs in Sediments,” Society of Environmental Toxicology and Chemistry, Nashville, TN, November 2000

“Natural Processes in Sediments” 16<sup>th</sup> Annual International Conference on Contaminated Soils, Sediments, and Water, Amherst, MA, October 16, 2000

“Contaminated Sediment Management - Still an Oxymoron”, National Hazardous Substance Research Centers Conference, Asilomar, CA, July 2000

“Sequestration and Bioavailability of PAH Contaminants in Sediments”, California Institute of Technology, Pasadena, CA, March, 2000

“Managing Contaminated Sediments”, Kansas State University, Manhattan, KS, February 1999

“Assessing Exposure in the Coastal Environment,” Michigan State University, September, 1997

“Exposure Assessment in the Coastal Environment,” Tulane University, March, 1997

“Biological Processes in Sediments”, 5<sup>th</sup> International Conference on Energy and the Environment, Cairo, Egypt, June 1996

“Contaminant Transport in Sediments -Are Biological Processes Important?” University of Arkansas, January, 1996

“The Influence of Biological Processes on Contaminant Transport in Sediments”, Plenary Lecture, 4<sup>th</sup> Environmental Conference, Darwin, Australia, July 1995.

“A New Framework for Environmental Engineering” graduation speech, Faculty of Engineering, University of Sydney, March, 1995

“War and the Environment”, joint meeting of the Institute of Engineers, Australia and the Institution of Chemical Engineers, Sydney, February, 1995

"Organic Contaminant Migration from Freshwater Sediments", University of Sydney, Department of Chemistry, October, 1994

"Perspective on Remediation of Contaminated Sites," Australian Institute of Petroleum, Sydney, Australia, October, 1994.

"Flow and Transport in the Sea Breeze", University of Western Australia, September, 1994

"Colloid Influences on Organic Contaminant Transport in Porous Media," Soil Science Society, Sydney, Australia, September, 1994

"Fate of Methyl Bromide after Soil Fumigation," University of Sydney, Department of Agricultural Chemistry, August, 1994

"Environmental Engineering Education- Aid or Hindrance", Environmental Branch of the Institute of Engineers, Australia, November, 1993

"Contaminant migration in the coastal environment", University of New South Wales, Monash University, University of Melbourne and Queensland University, 1993

"Contaminant transport and fate processes in coastal regions", University of Sydney, Sydney, Australia, August, 1992

"Migration and Fate of Nonaqueous Phase Liquids in the Subsurface, " Cambridge University, Heriot-Watt University and the University of Exeter, UK, March-May, 1991

"Contaminant Transport in River and Estuarine Sediments," Swansea University, UK, February, 1991

"Current Environmental Contaminant Fate and Transport Research", Lecture series Institute for Experimental Meteorology, Obninsk, USSR, October 8-22, 1988

"The State of the Student, or Who are These Students Anyway", Union Carbide University Representatives, New Orleans, LA, September 23, 1988

"Subsurface Contamination by Multiphase Processes: Research and Policy Implications for the EPA", AAAS Environmental Science and Engineering Fellow Seminar, EPA, Washington, D.C., August 1987

"Multiphase Flow and Ground-Water Contamination", USGS, Reston, VA, July 1987

"Contaminant Transport in Soils and Sediment", Shell Development Corporation, Houston, TX, March, 1987

"The Boundary Element Method and Applications to Environmental Transport", Rice University, November, 1986 and the University of Florida, Gainesville, FL, February, 1987

"Modeling Convective Transport in River Sediments," University of Houston, Houston, Texas, February, 1986

"Characterization of the Transport and Dispersion of Pollutants from a Coal-Fired Power Plant in Louisiana", Southern University, Baton Rouge, Louisiana, April 1985

## **VII. THESES/DISSERTATIONS DIRECTED**

### **Dissertations Completed under the Direction of Danny Reible**

1. Smith, Anthony, "Microbiological Activity and Organic Pollutant Fate and Transport in Sediments and Sediment Caps," University of Texas, June 2011 (graduation August 2011) (with MJ Kirisits)
2. Lampert, David "An Assessment of the Design of In Situ Management Approaches for Contaminated Sediments," PhD in Civil Engineering, University of Texas, May, 2010 EMPLOYMENT: Argonne National Laboratory, Argonne, IL
3. Hong, YongSeok, "Experimental and Mathematical Investigation of Dynamic Availability of Metals in Sediments" PhD in Civil Engineering, University of Texas, December 2009 (with K. Kinney) EMPLOYMENT: Johns Hopkins University, Baltimore, MD
4. Johnson, Nathan, "Mercury Methylation Beneath An In-Situ Sediment Cap" PhD in Civil Engineering, University of Texas, August 2009 (with L. Katz) EMPLOYMENT: University of Minnesota, Duluth
5. Nabatilan, Marilou, "Granular Activated Carbon Sorption As A Load Equalization Mechanism In Operation Of Air Pollution Control Devices", PhD in Engineering Science, May 2009, Louisiana State University (with W. Moe)

6. Yin, Ming, "Measurement Of Metal Migration In Sediment Caps With X-Ray Fluorescence", PhD in Chemical Engineering, Louisiana State University (with C. Willson) EMPLOYMENT: Baton Rouge, LA
7. Chai, Youn Zhou, "Thermodynamic and Kinetic Studies on the Sorption and Desorption of Hydrophobic Organic Contaminants in Sediments, PhD in Chemical Engineering, Louisiana State University, June 2005, EMPLOYMENT: Dow Chemical Company, Midland, MI
8. Lu, Xia Xiao, "Bioavailability of Desorption Resistant Fraction of PAHs to Deposit Feeding Tubificid Oligochaetes", PhD in Chemical Engineering, Louisiana State University, December 2003, EMPLOYMENT: Research Associate, University of Texas
9. Choy, Bruce, "Volatile Emissions of Organic Contaminants from Soils and Sediments, " PhD in Chemical Engineering, University of Sydney, October 1999, EMPLOYMENT: Commonwealth Bank, Sydney Australia
10. deSeze, Guilhelm, "Sediment-Air Partitioning of Hydrophobic Organic Chemicals," PhD in Chemical Engineering, Louisiana State University, May, 1999, (With K.T. Valsaraj) EMPLOYMENT: Research Engineer, Procter and Gamble, Belgium
11. Cheah, Elaine Poh Sim, "Distribution and Remediation of Organic Contaminants in Soil", PhD in Chemical Engineering, University of Sydney, April, 1999, EMPLOYMENT: Environmental Engineer, Sydney, Australia
12. Thoma, Greg, "Studies in the Diffusive Transport of Hydrophobic Organic Chemicals in Bed Sediments", Ph.D. in Chemical Engineering, Louisiana State University, May, 1994 (with LJ Thibodeaux). EMPLOYMENT: Professor of Chemical Engineering, University of Arkansas
13. Doshi, Dharmesh Vinaychandra, "Modeling Vertical Migration of Non-Aqueous Phase Liquid Wastes in Unsaturated Soils", Ph.D. in Chemical Engineering, Louisiana State University, May, 1994., EMPLOYMENT: Environmental Manager, India
14. Koo, Youn-Seo, "Pollutant Transport in Buoyancy Driven Atmospheric Flows", Ph.D. in Chemical Engineering, Louisiana State University, December, 1993. EMPLOYMENT: Professor of Environmental Engineering, Anyang University
15. Lo, Yu-Wen, "Three Dimensional Modeling of Reaction Injection Molding", Ph.D. in Chemical Engineering, Louisiana State University, December, 1991. (With John Collier) EMPLOYMENT: Unknown
16. Rhee, Seung-Whee, "Modeling the Effect of Shale Heterogeneities on Hazardous Waste Transport in Deep Well Disposal Systems", Ph.D. in Chemical Engineering, Louisiana State University, December, 1991. EMPLOYMENT: Professor of Environmental Engineering, Kyongii University
17. King, John A., "Natural Convection Above Heated Inclined Surfaces", Ph.D. in Chemical Engineering, Louisiana State University, December, 1989. EMPLOYMENT: Shell Refining Co., Laplace, LA
18. Savant-Malhiet, S. Anne, "Modelling of Passive Contaminant Transport in River Sediments", Ph.D. in Chemical Engineering, Louisiana State University, December, 1988. EMPLOYMENT: Process engineer, Dow Chemical Co. Baton Rouge, LA

**MS Theses Completed under the Direction of Danny Reible**

1. Dunlap, Patrick, "Evaluating Organic Compound Sorption to Several Materials to Assess Their Potential as Amendments to Improve In-Situ Capping of Contaminated Sediments," MS Thesis, University of Texas, June 2011 EMPLOYMENT: Black and Veatch
2. Kuriakose, Elizabeth, "Evaluating Sediment Cap Performance with PDMS Profilers: Field Study of McCormick and Baxter Superfund Site" MS Thesis, University of Texas, August 2010 EMPLOYMENT: Tox Strategies
3. Chess, Timothy "Laboratory Optimization and Field Demonstration of Diffusive Gradients in Thin Films for In-Situ Mercury Measurements of River Sediments" MS Thesis, University of Texas, August 2010 EMPLOYMENT: US ARMY
4. Jordan, Matt "Development of a Screening Model for the Migration of Contaminated Soil Vapor into the Indoor Air Environment", MS in Environmental and Water Resources, University of Texas, May, 2010 EMPLOYMENT: CH2M Hill
5. Trejo, Gabe "The Evaluation of Sorbent Containing Geotextiles for the Remediation of PAH and NAPL Contaminated Sediment, MS in Environmental and Water Resources Engineering, University of Texas, August, 2009 EMPLOYMENT: Malcolm Pirnie
6. Jasmine Dufreche, "Evaluation of Organoclay As an Active Capping Amendment for Control of Dissolved PAH Contamination" MS in Environmental and Water Resources Engineering, University of Texas, May 2007 EMPLOYMENT: University of Louisiana-Lafayette (Lecturer)
7. Casey Forrest "Evaluation of Biopolymer Coated Sands As Capping Materials" MS in Environmental and Water Resources Engineering, University of Texas, May 2007 EMPLOYMENT: AnchorQEA, Austin, TX
8. Lisa Moretti "Evaluation of Capping NAPL-Contaminated Sediments" MS in Environmental and Water Resources Engineering, University of Texas, May 2007 EMPLOYMENT: ERM, Austin, TX
9. William Sarchet "Effects of a Thin Layer Sand Cap on Bioavailability And Bioaccumulation in Sediments" MS in Environmental and Water Resources Engineering, University of Texas, May 2007 EMPLOYMENT: Consulting, Austin, TX
10. Skwarski, Alison "Demonstration and Evaluation of Solid-Phase Microextraction for Assessment of Contaminant Mobility and Bioavailability" MS in Environmental and Water Resources Engineering, University of Texas, May 2007 EMPLOYMENT: Arcadis, Ann Arbor, MI
11. Drake, Brian, "Bioavailability and Trophic Transfer of PAHs and PCBs," MS in Environmental and Water Resources Engineering, University of Texas, May 2007 EMPLOYMENT: CH2M-Hill Idaho
12. Moderow, Shawn "Zero-valent Iron's Effectiveness at Dehalogenating Chlorobenzenes and its Feasibility as a Reactive Cap," MS Environmental and Water Resources, University of Texas, December 2006 EMPLOYMENT: Environeering, Inc., Houston, TX
13. Smith, Tony, "Effects of Bioturbation on the Bacterial Community in Contaminated Sediment", M.S. in Civil Engineering, Te University of Texas at Austin, August, 2006 EMPLOYMENT: PhD student, University of Texas (with Mary Jo Kiristis)

14. Khanam, Aiahsa, "Assess Feasibility of Organoclay to retain NAPL (Non Aqueous Phase Liquid) in sediment beneath a cap" M.S. in Civil Engineering, The University of Texas at Austin, June 2006 EMPLOYMENT: BBL, Inc, Portland, OR
15. Nabatilan, Marilou, "Enhanced Degradation Of Phenanthrene And Benzo(A)Pyrene In A Field-Contaminated Sediment Inhabited By Ilyodrilus Templetoni: A Microcosm Study" M.S. in Chemical Engineering, Louisiana State University, December 2005, EMPLOYMENT: PhD candidate in Civil Engineering at LSU.
16. Marquette, Andre, "Modeling Of Chemical Fate And Transport In The Environment", M.S. in Chemical Engineering, Louisiana State University, August 2005, EMPLOYMENT: ERM Corporation, New Orleans, LA
17. Harris, Melanie, "Evaluation of In-Situ Capping of a Refinery Sludges", M.S. in Chemical Engineering, Louisiana State University, August 2005, EMPLOYMENT: Unknown
18. Roberts, Keegan, Modeling of River Hydrodynamics and Active Cap Effectiveness in the Anacostia River", M.S. in Civil Engineering, Louisiana State University, August 2004, EMPLOYMENT: PhD in Civil Engineering, LSU.
19. Bhimasen, Narayan, "Micro-Visualization of Colloidal Gas Aphrons Interaction with Oil", M.S. in Chemical Engineering, Louisiana State University, August 2000, EMPLOYMENT: Equilon Corporation
20. Fu, Xiao, "Evaluation of a Model of Capping of Contaminated Sediments", M.S. in Chemical Engineering, Louisiana State University, December, 1998, EMPLOYMENT: Chemical Engineer in China
21. Mohanty, Sanat, "Modeling Bioturbation at the sediment-water interface", M.S. in Chemical Engineering, Louisiana State University, May, 1997., EMPLOYMENT: 3M Corporation (after completion of PhD at University of Minnesota)
22. Shephard, Antwane, "Fate of Pyrene during Oligochaete Bioturbation", M.S. in Chemical Engineering, Louisiana State University, August, 1997. EMPLOYMENT: Unknown
23. Deng, Fei, "The Mobility of Pyrene in Oil and Grease Contaminated Sediments", M.S. in Chemical Engineering, Louisiana State University, May, 1997. EMPLOYMENT: WITCO, Brooklyn, NY
24. Chia, Stuart, "Biological Degradation Studies of PAH Compounds in Water Treatment Plant Solids at Clyde Refinery", M.E.S. (Environmental), University of Sydney, October, 1996. EMPLOYMENT: Halliburton, Sydney, Australia
25. Hunter, Farley, "Fenton's Treatment of 1,2,3-Trichloropropane: Chemical Reaction Byproducts, Pathway and Kinetics", M.S. in Chemical Engineering, Louisiana State University, May, 1996. EMPLOYMENT: Novartis Corp., New Jersey
26. Choi, Ji Woong, "Laboratory Simulation of the Sea Breeze", M.E.S. (Environmental), University of Sydney, March, 1996. EMPLOYMENT: Unknown- returned to Korea
27. Doroja, Dorinda S. , "Influence of colloidal matter on the seepage rates of hydrophobic contaminants through porous media", M.S. in Chemical Engineering, Louisiana State University, August, 1995.

EMPLOYMENT: Shell Chemical Co., South Carolina

28. Sojitra, Ishvar, "Transport of Organic Colloids from Contaminated Sediment Beds", M.S. in Chemical Engineering, Louisiana State University, December, 1994. (With KT Valsaraj) EMPLOYMENT: Union Carbide, Taft, LA
29. Bolling, Trent, "Form and Distribution of Residual Nonaqueous Phase Liquids in Porous Media", M.S. in Chemical Engineering, Louisiana State University, December, 1994. EMPLOYMENT: Shell Chemical Co, South Carolina
30. Swift, Brian, "Bottom Heating Frontolysis of Gravity Currents in Water", M.S. in Chemical Engineering, Louisiana State University, December 1994. EMPLOYMENT: University of Indiana Branch Campus, Indiana
31. Smith, James Lee, "An Experimental Study of the Transport and Fate of a NAPL in a Heterogeneous Soil and Removal by Vacuum Extraction", M.S. in Chemical Engineering, Louisiana State University, May, 1994. EMPLOYMENT: URS, Houston, Tx
32. Corripio, Bernardo Miguel, "Laboratory Simulation of the Sea Breeze for Dispersion Modeling", M.S. in Chemical Engineering, Louisiana State University, May 1993. EMPLOYMENT: Dow Chemical Co., Plaquemine, LA
33. Dikshit, Mandar M., "Modeling and Experimentation in Bioturbation", M.S. in Chemical Engineering, Louisiana State University, August, 1993. EMPLOYMENT: Private Consulting
34. Sahay, Nishit, "Mold Filling Studies in Reaction Injection Molding Process", M.S. in Chemical Engineering, Louisiana State University, December, 1992. EMPLOYMENT: ABB Lummus, Houston
35. Mahliet, Mark Eric, "Validation of a Simplified Transport Model for Non Aqueous Contaminant Infiltration in the Unsaturated Zone", M.S. in Chemical Engineering, Louisiana State University, December, 1989. EMPLOYMENT: BASF, New Jersey
36. Perrett, Fred Jack, "Computer Simulation of Flow, Reaction and Heat Transfer in Reaction Injection Molding", M.S. in Chemical Engineering, Louisiana State University, August, 1988. EMPLOYMENT: Mississippi Chemical Co., Yazoo City, MS
37. Chitgopekar, Nitin, "Modeling Short Range Air Dispersion from Area Sources of Non-Buoyant Toxics", M.S. in Chemical Engineering, Louisiana State University, December, 1988. EMPLOYMENT: Stone and Webster, Houston
38. Ayoub, Ibrahim F., "Study of Transport and Entrapment of Concentrated Organics In Soils", M.S. in Civil Engineering, Louisiana State University, May, 1987. EMPLOYMENT: Unknown
39. Doshi, Dharmesh Vinaychandra, "Modeling Vertical Migration of Non-Aqueous Phase Liquid Wastes in Unsaturated Soils", M.S. in Chemical Engineering, Louisiana State University, May, 1987. EMPLOYMENT: Environmental Manager, India
40. Garg, Kul Bhushan, "Characterization of Transport and Dispersion of Air Pollutants from a Coal-Fired Power Plant", M.S. in Engineering Science, Louisiana State University, May, 1986. EMPLOYMENT: US

Air Force, Huntsville, AL

41. Marsden, Jr., Arnold Riley, "Development of Approximate Chemical Submodels for Use in Photochemical Air Pollution Modeling", M.S. in Chemical Engineering, Louisiana State University, December, 1985.  
EMPLOYMENT: Shell Oil Co., Houston