

**January 2021**

**CURRICULUM VITAE**  
**DANNY DAVID REIBLE, PhD, PE(LA), BCEE, NAE**  
**Donovan Maddox Distinguished Engineering Chair**  
**Paul Whitfield Horn Professor**

**ADDRESS:** Departments of Civil, Environmental and Construction Engineering and Chemical Engineering  
Texas Tech University  
Box 41023, Lubbock, TX 79409-1023  
[danny.reible@ttu.edu](mailto:danny.reible@ttu.edu) (806) 834-8050

**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:**

- Department of Civil, Environmental and Construction Eng./Chemical Eng., Texas Tech University  
Paul Whitfield Horn Professor (4/19 - )  
Donovan Maddox Distinguished Engineering Chair (9/13- )
- Department of Civil, Architectural and Environmental Engineering, University of Texas  
Adjunct Prof (9/13-9/16), Director, Center for Research in Water Resources (9/11-8/13)  
Coordinator, Environmental and Water Resources (8/07-9/10)  
Bettie Margaret Smith Chair of Environmental Health Engineering (8/04-9/13)
- Department of Hydraulic Engineering, Tsinghua University, Distinguished Visiting Professor (2011-)
- Department of Chemical Engineering, LSU  
Professor (8/92 – 8/04), Chevron Endowed Professor (1/98- 8/04), Emeritus (8/04- )  
Director, Hazardous Substance Research Center/South & Southwest (7/05-9/07)
- Shell Professor of Environmental Engineering, University of Sydney, Sydney, Australia (7/93-7/95)
- Summer Faculty Researcher, Army Research Office, Vicksburg, MS (6/90-9/90)
- Registration as Professional Chemical Engineer (LA- 21708, 3/27/85, Environ. 9/13/94)

**HONORS AND AWARDS:**

- 2020 Gordon Maskew Fair Award, American Academy of Environmental Engineers and Scientists
- 2017 Kappe Lecturer, American Academy of Environmental Engineers and Scientists
- 2015 Amundson Lecturer, University of Guadalajara, Mexico
- 2015 Foreign Expert Visiting Professor, Tsinghua University, China
- 2014 Lifetime Achievement Award, Association of Environmental Health Sciences
- 2014 Senior Fellow, Institute for Advanced Studies, University of Bologna
- 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
- 2006 Presidential Service Award for environmental mentoring of former Soviet defense scientists
- 2005 Elected to the National Academy of Engineering for “development of widely used means of managing 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
- 1991 Senior Visitor, Cambridge University Department of Applied Math and Theoretical Physics
- 1986 New Engineering Educator Excellence Award, American Society for Engineering Education

## **PROFESSIONAL ACTIVITIES:**

### **National/International Advisory Activities and Leadership Roles (Since 2000):**

Applied NAPL Science Review Board of Directors (2021- )  
Editorial Board, *Toxics* (2021- )  
Chair, NAS Overarching Committee on *Progress Toward Ensuring an Outcome of a Safe, Healthy, & Resilient Gulf of Mexico* (2020-) (4 Committees addressing various aspects of Gulf of Mexico Initiative)  
Executive Editor in Chief, Environmental Science and Ecotechnology (Elsevier) (2019-)  
Member, Programme Advisory Board - Unconventional Hydrocarbons in the UK Energy System  
Lead Foreign Expert, 111 Project on Fluvial Ecohydraulics, Tsinghua University (2018-2022)  
Testimony, Texas House Energy Resources Committee (July 2017)  
Water Lead, Shale Task Force of The Academy of Medicine, Engineering and Science of Texas (2016-17)  
Secretary of Executive Board, The Academy of Medicine, Engineering and Science of Texas (2015-17)  
Kappe Lecturer- American Academy of Environmental Engineers and Scientists (2017)  
Chair, US UK Workshop on Environmental Impacts of Unconventional Oil and Gas Development (2015)  
Associate Editor, *Environmental Toxicology and Chemistry* (2015-2019 )  
USACE/COPRI 2014 Project Excellence Award (in support of Maul-Foster and Zidell Remediation project)  
Conference Chair, Texas Water Summit: Securing our Economic Future, May 2014  
Chair, NAS Committee on *Habitat Conservation Plan of the Edwards Aquifer Authority* (2014-)  
Conference Chair, Managing the Environmental Challenges of Shale Gas, ECI August 2013, Boulder, CO  
Organizing comm. AIChE/AWMA Shale E&P- Water Challenges & Opportunities, 11/12, Pittsburgh PA  
Chair, International Society for Water Solutions (AIChE) (2012-2016)  
Editorial Board, *Journal of Environmental Chemodynamics and Modeling* (2012- )  
Chair, Texas Water Summit (May, 2012)  
AIChE Water Advisory Board (2010-), Chair (2012-2013)  
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 (2009-2015)  
National Research Council Committee on Chemical Munitions Disposal (2009- 2011)  
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 - )  
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 ARW Assessment and Remediation of Contaminated Sediments, Bratislava 5/18-21/2005  
Chair, National Science Foundation Review- Distinguished Teacher/Scholars 2005 (member, 2004)  
Associate Editor, *Journal of the Air and Waste Management Association* (2004-2014)  
Participant and Proceedings Co-Author, Pellston Workshop- Use of Sediment Quality Guidelines (2002)  
Director, NSF PASI In-Situ Assessment & Remediation of Contaminated Sites, Rio de Janeiro 7/22-8/2/02  
Testimony- US House of Representatives Subcommittee- Water Resources and the Environment (2001)  
Director, NATO ASI In-Situ Assessment and Remediation of Contaminated Sites, 5/24-6/2/01, Prague  
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)  
External Examiner, Environmental Engineering, National Singapore University (1995 - 2000)

### **University Administrative and Advisory Activities (TTU)**

Member, TTU Provost Search Committee (2021)  
Member, TTU Strategic Planning Committee, TTU (2016-2017)

Member, Dean Review Committee, TTU (2015-2016, 2021)  
Member, Mechanical Engineering Chair Search Committee, TTU (2015 - 2016 )  
Director, Unconventional Production Technology and Environmental Consortium, TTU (2013-)  
Chair, Faculty Searches in Environmental Engineering /Water Resources Engineering TTU (2013-2018)

**Professional Affiliations:**

American Association for the Advancement of Science, Fellow (2009)  
American Chemical Society, member - Symposium Chair, 1999, 2009  
American Institute of Chemical Engineers, Fellow (2007)  
National Water Advisory Board 2009-2012  
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)  
International Society for Water Solutions, Chair (2012-2016)  
American Geophysical Union, member -Symposium Chair, 1998, 2005, 2008  
Society for Environmental Toxicology and Chemistry, member- Symposium Chair, 1999, 2008. 2009  
Member –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), The Academy of Medicine Engineering and Science of Texas, Water Environment Federation  
Board of Directors (2013-2017), Secretary and member of Executive Board (2016-2017)  
Universities Council of Water Resources, Carbondale, IL-Delegate (1998- )

**CURRENT ACTIVITIES:**

Dr. Reible is currently the Paul Whitfield Horn Professor and Donovan Maddox Distinguished Engineering Chair at Texas Tech University. He previously served as Director of the multi- university consortium, the Hazardous Substance Research Center (HSRC) South and Southwest (1995-2007) while at Louisiana State University and as the Bettie Margaret Smith Chair of Environmental Health Engineering (2004-2013) and Director of the Center for Research in Water Resources (2011-2013) at the University of Texas. Dr. Reible was inducted into the National Academy of Engineering in 2005 for “the development of widely used approaches to managing contaminated sediments”. His current research activities are focused on sustainable water management and the assessment and remediation of contaminated sites. Dr. Reible has served as PI on projects totaling in excess of \$35 million and has authored/edited 6 books, more than 40 chapters in books, and more than 150 refereed journal papers.

***Current Research Projects (PI unless noted)***

- ESTCP – High Resolution Passive Profiling ... (2017-2021) 987K (co-PI)
- ESTCP – Standardization of Polymeric Sampling....(2017-2021) 1,137 K (co-PI, TTU – 150K)
- DuPont – Mercury Assessment and Management in a Freshwater Stream (2009-2021) 965K
- SERDP - Development of Tools to Inform the Selection of Stormwater Controls at DoD Bases to Limit Potential Sediment Recontamination (2018-2022) 1.058 M
- Chevron – Availability of Mercury in Impacted Metals in Sediments (2017-2021) 505K
- NSF – IGE: Developing Reflective Engineers (2018-2021) 498K
- USACE – Low Density Polyethylene (LDPE) Sheet Field Deployment and Analytical Support, Bradford Island (2019-2021) 76K
- Oregon DEQ -Evaluation of Contaminant Mobility and Availability, McCormick and Baxter, Portland, OR (2020-2021, 98K)
- NSF - Planning Grant: Engineering Research Center for Hurricane Urban Planning Hazards Research, National Science Foundation (2018-2021) \$100K (co-PI, administered at UH)
- ESTCP - Application of Passive Samplers to Support Risk Assessment and Long-term Monitoring (2020-2022) (co-PI, TTU share 210K)

## PUBLICATIONS (h-index, Web of Science 30, Scopus 31, Google Scholar 40)

### A. Refereed Publications

#### Books

1. Reible, D. Ed. *Sediment Processes, Assessment and Remediation*, Springer, New York, 2014
2. Reible, D. and T. Lanczos, Ed. *Assessment and Remediation of Contaminated Sediments*, NATO Science Series IV, Earth and Environmental Sciences Vol. 73. Springer-Verlag, Dordrecht, Netherlands (2006)
3. Chien, C.C.; Medina, M.A. Jr.; Pinder, G.F., Reible, D.D.; Sleep, B.E. and Zheng, C. 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).
6. Reible, D.D. *Fundamentals of Environmental Engineering*, CRC/ Lewis Publishers (1999) (2<sup>nd</sup> Ed. Pending)

#### National Research Council Refereed Committee Reports

1. *Review of the Edwards Aquifer Habitat Conservation Plan*., National Research Council, Water Science and Technology Board Report (Danny D. Reible, Chair), National Academy Press- Report 1 Evaluation of Scientific Programs (2015) Report 2 Efficacy of Conservation Measures (2017), Report 3 Evaluation of Biological Goals and Objectives (2018)
2. *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.
3. *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
4. *Assessing the Effectiveness of Dredging at Superfund Megasites*, 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
5. *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
6. *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
7. *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 and Refereed Proceedings Volumes

1. Kim, J., Nguyen, N. T., Campbell, R. C., Taraban, R., Reible, D., Na, C. & Yoo, S. (2020, Apr 17 - 21) Would Eisner Be Happy With Us? Developing Reflective Engineers Through an Arts-Incorporated Engineering Graduate Curriculum. AERA Annual Meeting San Francisco, CA <http://tinyurl.com/vbwelkl>
2. Campbell, R. C., Reible, D., Taraban, R., & Kim, J.-H. (2020). More than a Dream: The Developing Reflective Engineers through Artful Methods (DREAM) Project. In Proceedings of the 2020 ASEE Gulf-Southwest Annual Regional Conference (p. 2). Online (originally Albuquerque, NM, USA): American Society for Engineering Education.
3. Kim, J.-H. Campbell, R. C., Reible, D., Taraban, R. (2019). Exploring Ways to Develop Reflective Engineers: Toward Phronesis-Centered Engineering Education. Proceedings of the American Society for Engineering Education (ASEE) Annual Conference.
4. Campbell, Ryan C. and Reible, Danny D. and Taraban, Roman and Kim, Jeong-Hee. (2018). Fostering Reflective Engineers : Outcomes of an Arts- and Humanities-Infused Graduate Course. Proceedings of the 2018 World Engineering Education Forum - Global Engineering Deans Council (WEEF-GEDC). doi:10.1109/WEEF-GEDC.2018.8629714
5. Campbell, R. C., Taraban, R., Kim, J.-H., Reible, D. D., Hoffman, J., & Na, C. (2017). Exploring the Effects of a Visual Thinking Strategies Workshop on the Reflective Thinking of Undergraduate Engineering Students. In Proceedings of the American Society for Engineering Education (ASEE) Annual Conference (p. 15). Columbus, OH, USA: American Society for Engineering Education. Retrieved from <https://www.asee.org/public/conferences/78/papers/19502/view>
6. Reible, D.D., Honarparvar, S., Chen, C.C., Illangasekare, T.H. and MacDonell, M. (2016). Environmental Impacts of Hydraulic Fracturing. In Environmental Technology in the Oil Industry (pp. 199-219). Springer International Publishing.
7. V Uddameri and D. Reible (2016) Water Availability in the Permian Basin of Texas; in Fracturing Impacts and Technologies – A Multidisciplinary Perspective (Ed: V. Uddameri, A. Morse and K. Tindle); pp 131-136; CRC Press; ISBN: 978-1498721172
8. Williams , J., Reible, D., Darvari, R., Vercellino, T., and Morse, A. (2016) Reuse and Recycling Flowback and Produced Waters; in Fracturing Impacts and Technologies – A Multidisciplinary Perspective (Ed: V. Uddameri, A. Morse and K. Tindle); pp. 159-173 CRC Press; ISBN: 978-149872117
9. Reible, D. (2014). Sediment and Contaminant Processes, Chapter 2 in *Processes, Assessment and Remediation of Contaminated Sediments*, D. D. Reible, Ed. Springer Science,
10. Lu,, X., Hong, Y.S., Reible, D.D. (2014). Assessing bioavailability of hydrophobic organic compounds and metals in sediments using freely available porewater concentrations, Chapter 7 in *Processes, Assessment and Remediation of Contaminated Sediments*, D. D. Reible, Ed. Springer Science
11. Reible, D. and Lampert, D.J. (2014) Capping for remediation of contaminated sediments, Chapter 12 in *Processes, Assessment and Remediation of Contaminated Sediments*, D.D. Reible, Ed. Springer Science (September)
12. Reible, D. and A.J. Shepard (2014) Contaminated Sediment Research and Development Needs, Chapter 15 in *Processes, Assessment and Remediation of Contaminated Sediments*, D.D. Reible, Ed., Springer Science
13. Yan, F., Reible, D. (2013) Modeling of Funnel and Gate Systems for Remediation of Contaminated Sediment, *Fluid Dynamics in Physics, Engineering and Environmental Applications, Environmental Science and Engineering*, pp. 391-400

14. Knox, A., I. Petrisor, C. Turick, J. Roberts, M. Paller, D. Reible, C. Forest (2010) Life Span of Biopolymer Sequestering Agents for Contaminant Removal and Erosion Resistance, *Biopolymers*, M. Elnashar, Ed., Sciyo Press, Croatia
15. Thibodeaux, L.J., J. Birdwell, D. Reible (2010) Diffusive Chemical Transport across Water and Sediment Boundary Layers, Chapter 12 in *Handbook of Environmental Chemical Mass Transport*, Taylor and Francis, CRC Press
16. Louis J. Thibodeaux, Justin E. Birdwell, Thibodeaux, L.J., G. Matisoff, D. Reible (2010) Bioturbation 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
17. Reible, D.D. (2009) Hurricane Katrina: Engineering and Environmental Concerns, in *Decision Support for Natural Disasters and Intentional Threats to Water Security*, 29-46, Springer
18. Reible, D.D., C. Kiehl-Simpson, A. Marquette (2008) Steady-State Model of Chemical Migration in a Sediment Cap, *Handbook of Environmental Chemistry*, Springer –Verlag
19. Reible, D.D. (2008) Contaminant Processes in Sediments, in *Sedimentation Engineering- ASCE Manual Volume 110*, Ed. Marcel Garcia.
20. Reible, D.D. and L.J. Thibodeaux (2006) Particle and soluble release of organic contaminants from the sediment bed, *Chemistry in the Environment*, Italian Interuniversity consortium (INCA), Rome, Italy
21. Reible, D.D. and G. V. Lowry (2006) In situ cap and treat technologies for contaminated sediments *Chemistry in the Environment*, Italian Interuniversity Consortium (INCA) Rome, Italy
22. 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 (2006) 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
23. Sam Bentley, Louis Thibodeaux, Peter Adriaens, Meng-Yeng Li, María Romero-González\* And Steven A. Banwart, Zdenek Filip And Katerina Demnerova, Danny Reible (2006) 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
24. Reible, D.D. (2006) 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
25. Lowry, G.V, P.J. Murphy, A. Marquette, and Reible, D.D. (2006) 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
26. Chapman, P., W.J. Birge, R.M. Burgess, W.H. Clements, W.S. Douglas, M.C. Harass, C. Hogstrand, D.D. Reible, A. Ringwood (2005) 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
27. Chapman, P., W.J. Birge, R.M. Burgess, W.H. Clements, W.S. Douglas, M.C. Harass, C. Hogstrand, D.D. Reible, A. Ringwood (2005) 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

28. 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 (2004) 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
29. L.J. Thibodeaux, D.D. Reible and K.T. Valsaraj (2002) 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
30. Corbisier, P. L. Diels<sup>1</sup>, T.H. Illangasekare, D.D. Reible, M. Reinhard, J. Vangronsveld (2002) 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
31. Illangasekare, T.H. and D.D. Reible (2000) 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
32. Reible, D.D. and L. J. Thibodeaux (1999) Contaminated Sediment Management Technical Papers. Appendix C- Using Natural Processes to Define Exposure from Sediments. Sediment Management Work Group, Detroit, MI.
33. Reible, D.D., R. Chaney, J. Hughes (1999) Bioavailability, in *Environmental Availability in Soils*, W.C. Anderson, R. C. Loehr, B. P. Smith, Ed., American Academy of Environmental Engineers, Annapolis, Md.
34. Thoma, G.J., D.D. Reible, K.T. Valsaraj, L.J. Thibodeaux and D. Timberlake (1996) 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
35. Reible, D.D. (1995) Chemodynamics, *Encyclopedia of Energy Technology & Environment*, 573-587
36. Valsaraj, K.T., L.J. Thibodeaux and D.D. Reible (1995) 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
37. Clarke, J., D.D. Reible, R. Mutch (1993) 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
38. Doshi, D. V., & Reible, D. D. (1992). Application of the Boundary Element Method to Moving Boundary Problems Arising During Non-Aqueous Phase Liquid (NAPL) Migration in Soils. In *Boundary Elements in Fluid Dynamics* (pp. 209-218). Springer Netherlands.
39. Reible, D.D., K.T. Valsaraj and L.J. Thibodeaux (1991) Chemodynamic Models for Transport of Contaminants from Sediment Beds, in *Handbook of Environmental Chemistry*, O. Hutzinger, Ed., Springer-Verlag, Heidelberg 187-228
40. Rhee, S.W., D.D. Reible and W.D. Constant (1991) 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
41. Thoma, G.J., A.C. Koulermos, K.T. Valsaraj, D.D. Reible and L.J. Thibodeaux (1991) 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

42. Reible, D.D. and T.H. Illangasekare (1989) 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
43. Savant, S.A., D.D. Reible, G.S. Gipson, J.D. Boyle and L.J. Thibodeaux (1987) 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
44. Thibodeaux, L.J., D.D. Reible and C.S. Fang (1986) 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
45. Gipson, G.S. and D.D. Reible (1986) 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
46. Reible, D.D., P.Yonts and F.H. Shair (1986) 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.

#### **Refereed Journal Publications**

1. Li, X., Huang, L., Fang, H., Chen, M., Cui, Z., Sun, Z., & Reible, D. (2021). Phosphorus adsorption by sediment considering mineral composition and environmental factors. *Environmental Science and Pollution Research*, 1-11.
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- International Specialized Conference on Contaminated Aquatic Sediments: Historical Records, Environmental Impact, and Remediation, Milwaukee, WI, June 14-16, 1993.
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101. 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.
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103. 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.
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107. 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

#### **Texas Tech University (Total funding as PI or co-PI, 2013-2021 -\$10.110 MM, TTU portion \$7.793 MM)**

- Reible, D. (PI), A. Jackson, Evaluation of Contaminant Mobility and Availability - McCormick and Baxter, Portland, OR, Oregon DEQ 98.03K
- Reible, D. (PI-TTU), Application of Passive Samplers to Support Risk Assessment and Long-term Monitoring, (Lead PI W. Gardiner, USACE), ESTCP ER20-D1-5220 (2021-2024) 210.1K (TTU portion)
- Reible, D. (PI), M. Rakowska, B. Rao, NSF, I-Corps: Polymeric passive samplers for monitoring hydrophobic organic compounds in the environment (2020) 50K
- Reible, D. (PI) USACE, Low Density Polyethylene (LDPE) Sheet Field Deployment and Analytical Support, Bradford Island (2019-2021) 76K
- Reible, D. (PI), USEPA, Long-Term Monitoring Using Passive Samplers at the West Branch Grand Calumet River, (2019-2020) 72K
- Reible, D. (PI) G. Perry, M. Currie, T. Byrd, NSF - Networking for Environmental Sustainability in Arid Region Urban Communities (2019-2020) 50K
- Reible, D. (co-PI, US) with H. Fang (co-PI, China, Tsinghua University) Ecofluvial dynamics, Chinese Foreign Expert 111 Project (2018-2023) \$4.5 MM RMB~ \$655K (for travel and in-China support, administered by Tsinghua University, no funds directly to TTU)
- Reible, D. (PI), R. Campbell, C. Na, R. Taraban, JH Kim, IGE: Developing Reflective Engineers through Artful Methods, National Science Foundation (2018-2021) 498K
- Reible, D. (PI) Availability of Mercury in Metal Impacted Sediments, Chevron (2018-2021) \$530K
- Reible, D. (PI) Development of Tools to Inform the Selection of Stormwater Controls at DoD Bases to Limit Potential Sediment Recontamination SERDP (2018-2021) 1.058 M (961.5K TTU)
- Michalsen, M. (PI) .... D. Reible (co-PI, TTU PI) Standardization of Polymeric Sampling for Measuring Freely-Dissolved Organic Contaminant Concentrations in Sediment Porewater, ESTCP 17 E-ER1-025 (2017-2020) 1,137K (150 K TTU)
- Jackson W.A. (PI), D. Reible (co-PI) High Resolution Passive Profiling to Monitor Contaminated Sediments in Support of Remediation, ESTCP 17 EB-ER-1-006 (2017-2021) 987K
- Reible, D. (PI), H.S. Kim (Duke) Assessment and management of mercury in a freshwater stream (2014-2021) DuPont 670 K
- Rifai, H. (PI, UH), D. Reible (co-PI) with J Pardue (LSU), A. Katner (Tulane Public Health), R. Mejia (Baylor Medicine) and Planning Grant: Engineering Research Center for Hurricane Urban Planning Hazards

Research, National Science Foundation (2018-2021) \$100K (administered through University of Houston, no funds directly to TTU)

Reible, D (PI) RAPID: Collaborative Research: Enhance the Resilience of Water Infrastructure in Mid-sized Cities Adjacent to Energy Industry, NSF (2017-2019) \$59.366K

Reible, D. (PI) Evaluation of Volatile Emissions with Passive Sampling USACE (2017-2018) 57K

Reible, D. (PI) Amended capping research, Huesker, Inc 25K (2017 donation) 25K (2018 donation)

Reible, D. (PI), A. Jackson Passive Sampling for Mercury in a Sediment Environment - Jellicoe Cove, Ontario, Canadian Ministry of the Environment and Climate Change (2017-2018) 47K

Millerick, Kayleigh (PI), D. Reible (Co-PI), Biodegradation Of Naphthalene Under Different Terminal Electron Accepting Conditions In Sediment Capping Materials, Haley & Aldrich, Inc., (2015-2018) 119.7K

Reible D. (PI), A. Swift, K. Rainwater, C. Na Critical Infrastructure Resilience Institute- Education and Workforce Development (2016-2017), Department of Homeland Security \$205K

Reible, D. (PI) Jeong-Hee Kim, Roman Taraban, Chongzheng Na, Jill Hoffman, Developing Reflective Engineers with Artful Methods (DREAM), TTU SGIR (2016-2017) 150K

Reible, D. (PI) Availability of Mercury in Impacted Metals in Sediment, Chevron Corp. (2016-2017) 75K

Reible, D. (PI), C. Na Performance of Activated Carbon for Sediment Remediation Cabot Corp. (2016-2017) 55K

Reible, D. (PI), "Joint US-UK Workshop on Hydraulic Fracturing for Oil and Gas Production," NSF, (2015 - 2016) 39.59K

Reible, D. (PI) Contaminant Availability and Mobility in Contaminated Sediments- SF Marina, Haley and Aldrich (2016-2017) 73K

Reible, D. (PI) Uddameri, V., "Texas Water Project Supporting the Future Economic Needs of the State," Sponsored by TX Department of Agriculture, (2015-2016) 52K

Reible, D. (PI) Passive Sampling for the Evaluation of Carbon Amendment Performance Baseline Characterization at Columbia Slough, OR, Oregon DEQ (2015-2018) 183K

Reible, D. (PI) Lavaca Bay THg Availability and Methylation- Baseline Studies, Tetra Tech (2015-2016) 101K

Reible, D. (PI) Evaluation of Mobility and Availability of Contaminants, Exxon Mobil (2015-2016) 68K

Reible, D. (PI) Assessment of Carbon Amendment Remedy at Hunter's Point, CA (2014-2018) US Navy through Geomorphis 479K

Reible, D. (PI) Assessment/Management of Stormwater Impacts on Sediment Recontamination (2014-2017) DoD SERDP 1.4M (918.9K TTU)

Reible, D. (PI) Field studies at Wyckhoff Eagle Harbor Site, Puget Sound, WA (2014) \$37K

Reible, D (PI) Evaluation of capping at Roxana Marsh, Hammond IN (2014) \$48K

Reible, D (PI) Evaluation of mercury and chlorobenzene at Delaware River, DE (2014) \$150K

Reible, D (PI) Amended capping research CETCO (donation) \$35K

Reible, D. (PI) Assessment of Mercury and Methyl Mercury in Sediments Impacted by U-864, DNVGL Norway (2014) 41K

Reible, D. (PI) Ex-Situ Porewater Measurements for Sediment Assessment (2014), Exxon-Mobil 41K

Reible, D. (PI), C.Chen, V. Uddameric Water Management for Hydraulic Fracturing, Apache Corp. (2014-2020), 253K

### **University of Texas (\$6.7 MM)**

Webber, M, Hightower, M, Reible D. (co-PI) Workshop on Energy Water Nexus (2013), National Science Foundation, 50K

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, 405K

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) \$990K (\$325K 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) \$778K (\$478K UT)

Reible, D.D. Evaluation of capping of citgo calcasieu estuary lagoon URS (2006) \$92.5K

Reible, D.D. Gift- Development of active capping, CETCO, (2005) \$30,000 renewed for \$35K each year 2006, 2007, 2008 and 2010, \$45K 2011, \$35K 2014

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

Reible, D.D. Monitoring cap performance – Anacostia active capping demonstration Washington DC through LSU, 336.8K (11/04-11/07)

Reible, D.D. Evaluation of organoclay as an amended cap material, Oregon Department of Environmental Quality \$75K0 (9/04-6/05) Renewed \$36.4K (6/06-9/06 ) Renewed \$78K (8/08-8/09), Renewed \$72K (8/09-6/10), Renewed \$82K (7/10-6/11)

### **Louisiana State University (\$24.1MM)**

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

Reible, D.D. (PI) DeLaune, R., Valsaraj, K.T. Evaluation of capping of pompton lake acid brook delta mercury deposits, Dupont \$105.7K (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, \$285K (capital), \$235K (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)  
\$993.5K (10/02-9/03), \$500K (10/03-9/04), \$500K (10/04-9/05)

Reible, D.D., In situ assessment and remediation of contaminated sites, Pan American Advanced Studies Institute, National Science Foundation, \$90K (10/01-9/02)

Reible, D.D. Technical assistance for brownfields, US EPA,  
\$150K (10/01-9/02), Renewed \$155K (10/02-9/03), \$450K (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, K.T. Valsaraj, Effectiveness of environmental dredging, Alcoa, \$99K (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, \$1,168.8 K (10/97- 9/01)

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

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, \$92.2K (LSU \$21K).

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, \$275K, renewed 10/97-9/98, \$100K.

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, \$200K

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, \$120K

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

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

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

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, \$220K

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

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, \$450K

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, \$167K

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

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, \$145K

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, \$354K, \$20K 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, \$75K

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, \$280K

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

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

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, \$122K, \$75K 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, \$21.2K

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, \$62K

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

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

B. Organization and Chair of Technical Symposia

Chair of Symposia “Bioremediation in Sediments” Battelle Bioremediation Conference, Baltimore, MD May 2019

Chair of Symposia “B2. Cap Construction and Operation” Battelle Sediments Conference, New Orleans, LA February 2019

Chair, Industrial Water Reuse and Alternative Waters, ISWS Workshop, San Antonio, TX November 2018

Organizing Committee: TAMEST Annual Meeting Building a Sustainable Future for Texas, San Antonio, TX, January 2017

Chair of US UK Workshop on Environmental Implications of Unconventional Oil and Gas Development, Arlington, VA November 2015

Chair, Texas Water Summit: Securing our Economic Future, Austin, TX May 2014

Co-Chair of Workshop on Energy-Water Nexus, NSF, Arlington VA June 2013

Chair of Symposia “Bioremediation in Sediments” Battelle Bioremediation Conference, Jacksonville, FL June 2013

Chair “Texas Water Summit” Austin Tx, June 2012

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, Jacksonvill, 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)**

Assessment of Lower Passaic River Contamination (2016- )

Advise Penobscot River Remedial Planning for PRPs (2016-)

Review of San Jacinto Proposed Remedial Plan for PRPs (2016)

Review of Willamette River remedial plans for State of Oregon (2015 -2016)

Expert witness on contaminant fate and behavior - Kalamazoo River, MI (2015)

Expert witness on contaminant fate and behavior – Hercules facility, Hattiesburg, MS (2015-2017)

Expert witness on atmospheric dispersion of contaminant from fire – Westlake, LA (2014-2016)

Sediment remedial planning for potentially responsible parties

Gowanus Canal, NY (2013 - )

Newtown Creek, NY (2011 - )

Grand Calumet, IN (2013-2015)

Grand Island Bay, LA (2013)

Escanaba, MI, ( 2013)

Ansul facility, Menominee, WI (2011-2013)

Cavendish Forest Products Facility, Gulfport MS (2010-2011)

Berry's Creek, Meadowlands, NJ (2010-2013)

Containment and restoration planning Hg containing submarine, U 864 (2007-2014)

Research for a sustainable future for Qatar for the Qatar Foundation (2011)

Technical resource for EPA, Grasse River, Massena, NY (2008-2012)

Capping component of Hudson River remediation, New York (2010-2011)

Willamette River Remedial Planning for City of Portland, OR (2010-2013)

### **Prior to 2010**

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

Remedial planning/design of Zidell Marine Services, Portland OR

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

Remedial planning for Gas Works Site, Seattle, WA

Preliminary review, natural resource damages, Hudson River, 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 on oily wastes in surface waters for Aqua-Terra Corp. and the 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

Capping Design -The art of designing of isolation layers to reduce environmental risk associated with contaminated sediments (with Espen Eck, Norwegian Geotechnical Institute)  
2015 Battelle Sediment Conference  
2017 Battelle Sediment Conference  
2019 Battelle Sediment Conference

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

Managing Water Availability – Chalmers University, Gotenberg Sweden, September 13, 2019

Managing the Physical, Chemical and Ecological Challenges of Sediments, Tsinghua University, Beijing, China, July 12, 2019

Managing the Physical, Chemical and Ecological Challenges of Sediments, Harbin Institute of Technology, Shengzhen, China, July 2, 2019

Innovations in Sediment Assessment and Remediation, Northeastern University, Boston, MA, March 17, 2019

Sustaining Water Availability in Rural Communities -Expanding brackish water use, Invited Lecture AIChE Water Workshop, November 15, 2018

Remediation of Surface Water and Sediments, Three Gorges, University, Yichang, China, July 14, 2018

Eco-Fluvial Dynamics, Tsinghua University, Beijing China, July 5, 2018

Challenges of Water Availability, ACS Lawler Symposium, March 18, 2018

ACS Presidential Forum Lecturer “Meeting Future Water Needs : Addressing the Challenges of Water Quality & Availability” –New Orleans, March 2018

Kappe Lecture - Challenges in Water Availability  
University of Oklahoma, April 2017  
Arizona State University, September 2017  
University of Tennessee, September 2017  
Vanderbilt University, September 2017  
Clemson University, September 2017

Duke University, September 2017  
University of Cincinnati, October 2017  
Carnegie Mellon, October 2017  
Lehigh University, October 2017  
Lafayette College, October 2017

Kappe Lecture - Innovations in Sediment Assessment and Remediation

New Jersey Institute of Technology, March 2017  
University of Oklahoma, April 2017  
Chicago Water Reclamation District, June 2017  
Washington University, St Louis, October 2017  
Oregon State University, October 2017

Where are the Breakthrough Technologies – How We Go From Test Bench to Utility-Scale Implementation?,  
Invited Lecture American Academy of Environmental Engineers and Scientists, April 13, 2017

Innovations in Passive Sampling for Bioavailable Contaminants in Sediments, Invited Lecture, J. Schnoor  
Symposium, ACS, San Francisco, CA April 3, 2017

Challenges and Opportunities for Use of Concentrated Oil Field Brines and Brackish Groundwaters, Invited  
Lecture, East China Normal University, Shanghai, China July 2016

Sustaining Water Quality and Availability in An Era of Scarcity, Invited Lecture, University of Texas at  
Arlington, March 2016

Water Management for Hydraulic Fracturing, SETAC Specialty Meeting on Hydraulic Fracturing, Denton, TX  
March 2016

Water Management for Hydraulic Fracturing, ACS Spring meeting, San Diego, CA, March 2016 (delivered by  
V. Uddameri)

Sustaining Water Quality and Availability in An Era of Scarcity, Invited Lecture, Universidad, Havana Cuba,  
February, 2016

Sustaining Water Quality and Availability in An Era of Scarcity, Invited Lecture, North China University of  
Science and Technology, January 2016

General Analytical Solution for Transport In Finite Multi-Layered Porous Media, Amundson Lecture,  
University of Guadalajara, Nov 2015

Managing the Legacy of Contaminated Sediments, Amundson Lecture, University of Guadalajara, Nov 2015

Sustaining Water Quality and Availability in An Era of Scarcity, Invited Lecture, Argonne National  
Laboratory, July 2015

Long Term Risks of Oil Spills, Keynote Lecture, 6th European Bioremediation Conference, Xania, Crete, July  
2015

Impacts of Oil and Gas on the Coastal Zone, Invited Lecture, 6th European Bioremediation Conference,  
Xania, Crete, July 2015

Sustaining Water Quality and Availability in An Era of Scarcity, Invited Lecture, Shanxi University, Taiyuan  
China, June 2015

Hydraulic Fracturing: Minimizing Impacts on Water Availability, Invited Lecture, NRC Chemical Roundtable  
Workshop on Hydraulic Fracturing, Washington DC May 2015

The Challenges of Water Availability, Can we Eat, Drink AND Turn on the Lights?, Keynote Lecture at International Congress on Sustainability and Sustainable Engineering, May 2015

The Energy Water Food Nexus, Invited Lecture, Santiago, Chile, November 2014

Water and Hydraulic Fracturing, Crook's Branch Workshop on Hydraulic Fracturing, November 2014

Managing Water Availability, Invited Lecture, IEEE, Washington DC, September 2014

Sustainable Sediment Management, 4<sup>th</sup> International Conference on Aqua Science and Water Resources, Taiyuan, China, August 2014

Water Availability in an Increasingly Water Stressed Environment, Advanced Study Institute Fellow Lecture, University of Bologna, May 2014

Water Management for Hydraulic Fracturing for Oil and Gas, Workshop on Clean Water Matters, Beijing China, April 2014

Sediments and Submarines: Indiana Jones and Environmental Engineering, Florida International University, March 2014

Assessing Contaminant Availability and Fate in Sediments, Notre Dame, February 2014

New Technologies for Sediment Assessment and Remediation, Arcadis Sediment Seminar, February, 2014

The Treatment and Reuse Experience in the United States, Workshop on Science and Technology to Enable Treatment and Reuse of Shale Water, Guiyang, China Oct 2013

Managing Water Availability in an Increasingly Water Stressed Environment, TAMU, October 2013

Water: the Present and Future in Texas, Binational Water Conservation Conference, Laredo TX, March 2013

Texas Water Management: A Path toward Sustainable Solutions, The Academy of Medicine, Engineering and Science of Texas, January 2013, Dallas, TX

Biotransformation, Biodegradation and Bioremediation Processes in Sediments, Tianjin University of Technology, Tianjin, China, June 2012

Sediment Assessment and Management, Lecture Series, Tsinghua University, Beijing, China, June 2012

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, UT 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 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 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 Management 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, UK March 1991  
Heriot-Watt University, UK April 1991  
University of Exeter, UK 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**

### **Postdoctoral Research Associates Directed by Danny Reible**

1. Ke Wu, (2018- ) PhD Nanjing University, China  
Employment: Texas Tech University
2. Yan Liu (2017-2019 ) PhD in Hydraulic Engineering, Tsinghua University  
Employment: Texas Tech University
3. Xiaolong Shen (2017- ) PhD in Chemical Engineering, University of Texas  
Employment: Texas Tech University
4. Campbell, Ryan (2016-) PhD in Engineering Education, University of Washington  
Employment: Texas Tech University  
Currently Instructor and Research Faculty
5. Rakowska, Magdalena (2014- ) PhD in Civil Engineering, University of Wageningen, NL  
Employment: Texas Tech University, Lubbock, TX  
On Leave 2018 for National Academies Postdoctoral Fellowship
6. Rao, Balaji (2014- ) PhD in Civil Engineering, Texas Tech University  
Employment: Texas Tech University, Lubbock, TX
7. Oleszczuk, Patryk (2016-2017) PhD Environmental Protection, Agricultural University, Lublin  
Employment: University of Maria Skłodowska-Curie, Lubin, Poland
8. Schierz, A. (2011-2015) PhD in Chemistry, University of Dusseldorf  
Employment: Exponent, Inc., Boston MA
9. Lu, XiaoXia (2003-2013) PhD in Chemical Engineering, LA State University  
Employment: Texas Commission on Environmental Quality, Austin, TX
10. Lampert, D. (2010-2011) PhD in Civil Engineering, University of Texas  
Employment: Oklahoma State University, Stillwater, OK
11. Hong, Y. S. (2010) PhD in Civil Engineering, University of Texas  
Employment Daegu University, Daegu, Korea
12. Ma, Samuel, (2006-2008) PhD on Civil Engineering, Univ of Missouri-Rolla  
Employment, Texas A&M University, College Station, TX
13. Chai, Y.Z (Joe) (2004-2006) PhD in Chemical Engineering, LA State University  
Employment Dow Chemical Co, Midland MI
14. Kochetkov, Valentin (1998-2003) PhD in Physics, Moscow State University  
Employment TYPHOON, Obninsk, Russia

15. Savant, Anne (1993-1995) PhD in Chemical Engineering, LA State University  
Employment: BASF, Houston TX
16. Valsaraj, KT (1986-1991) PhD in Chemistry, Vanderbilt University  
Employment LA State University, Baton Rouge, LA (Vice Provost for Research)

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

1. Zhang, Xin, “Modeling Desalination Performance and Energy Behavior of Membrane Capacitive Deionization” PhD Dissertation, Texas Tech University, May 2021
2. Odetayo, Adesewa, “Development and Application Of Passive Samplers For Assessing Air And Freely Dissolved Concentrations Of Hydrophobic Organic Contaminants”, PhD Dissertation, Texas Tech University, December 2020
3. Drygiannaki, Ilektra, “Assessment of Stormwater Metals on Receiving Water Sediment Recontamination,” PhD Dissertation, Texas Tech University, August 2020. Employment: Geosyntec
4. Pagnozzi, Giovanna (co advised with K. Millerick), “Evaluating the influence of capping materials on composition and biodegradation activity of benthic microbial communities: Implications for designing bioreactive sediment caps”, PhD Dissertation, Texas Tech University, August 2020. Employment: Geosyntec
5. Athanasiou, Dimitrius, “Effects of Polycyclic Aromatic Hydrocarbons in Urban Stormwater on Receiving Sediment”, Texas Tech University, August 2019 Employment: Exponent
6. Honarparvar, Soraya, “Thermodynamic Modeling and Management of Saline Waters” Texas Tech University, August 2019 Employment: MIT
7. Yan, Songjing, “Applications of Passive Sampling Technology in HOC Contaminated Sediment Management And Remediation”, Texas Tech University, December 2018 Employment: UMd-BC
8. Vrtlar, Tea, “Optimization of DGT Methyl Mercury Recovery; Bank Leaching Assesment And Evaluation Of Stabilization Efforts On Mercury Fate And Transport In Freshwater Systems”, Texas Tech University, August 2018 Employment: CDM Smith
9. Shen, Xiaolong “Developing Models for the Assessment and the Design of the In situ Remediation of Contaminated Sediments” University of Texas, December 2017 Employment: Texas Tech
10. Bireta, Paul “Application of Diffusive Gradient in Thin-Film Passive Samplers to Assess Mercury Availability and Mobility in a Fresh Water River System”, University of Texas, August 2015 Employment: Chevron
11. Azhar, Wardah, “Evaluation of Sorbing Amendments for In-situ Remediation of Contaminated Sediments”, University of Texas, August, 2015 Employment: CDM Smith
12. Thomas, Courtney, “Passive Sampling to Evaluate Performance of in situ Sediment Remediation,” University of Texas, December, 2014 Employment: Geosyntec
13. Yan, Fei, “PAH Degradation and Redox Control in an Electrode Enhanced Sediment Cap”, University of Texas, August 2012 Employment: Solenis
14. 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)  
Employment: Geosyntec

15. 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: Illinois Institute of Technology, Chicago, IL
16. 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: Korea University
17. 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
18. 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) Employment: Wink Engineering
19. 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
20. 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
21. 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: Texas Commission on Environmental Quality
22. Choy, Bruce, "Volatile Emissions of Organic Contaminants from Soils and Sediments," PhD in Chemical Engineering, University of Sydney, October 1999, Employment: Global Risk Institute, Toronto, Canada
23. 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
24. 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
25. 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
26. 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
27. 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
28. 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
29. 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
30. King, John A., "Natural Convection Above Heated Inclined Surfaces", Ph.D. in Chemical Engineering, Louisiana State University, December, 1989. Employment: Retired
  31. Savant-Malhiet, S. Anne, "Modelling of Passive Contaminant Transport in River Sediments", Ph.D. in Chemical Engineering, Louisiana State University, December, 1988. EMPLOYMENT: Dow Chemical Co. Baton Rouge, LA

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

1. Liang, Chuan, "A Novel Iron Amended Cellulosic Material for Treatment of Arsenic Contamination in Water", Texas Tech University MS Thesis August 2017
2. Bejar, Michelle, "Use of Diffusion Gradient in Thin Film Devices to Assess Mercury Bioavailability and Bioaccumulation in Tubificid Organisms" Texas Tech University MS Thesis August 2017
3. Nomaan, Sheik Mohammed, Preliminary Assessment Of Chlorobenzenes Fate And Transport In Sediment Environment, MS Thesis, Texas Tech University, August 2016 Employment: University of Texas
4. Offut, Alyssa, "The interaction of benthic oligochaetes, *T. tubifex*, with mercury impacted sediments: An assessment of bioaccumulation and biogeochemistry", MS Thesis, University of Texas, May 2014 Employment: Geosyntec
5. 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
6. 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
7. 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
8. 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
9. 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
10. Jasmine Dufreche, "Evaluation of Organoclay As an Active Capping Amendment for Control of Dissolve PAH Contamination" MS in Environmental and Water Resources Engineering, University of Texas, May 2007 Employment: University of Louisiana-Lafayette (Lecturer)
11. 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

12. Lisa Moretti “Evaluation of Capping NAPL-Contaminated Sediments” MS in Environmental and Water Resources Engineering, University of Texas, May 2007 Employment: ERM, Austin, TX
13. 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
14. 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
15. 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
16. 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: Enviroengineering, Inc., Houston, TX
17. Smith, Tony, “Effects of Bioturbation on the Bacterial Community in Contaminated Sediment”, M.S. in Civil Engineering, The University of Texas at Austin, August, 2006 EMPLOYMENT: PhD student, University of Texas (with Mary Jo Kiristis) Employment: Geosyntec
18. 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
19. 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: Wink Consulting
20. 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
21. Harris, Melanie, “Evaluation of In-Situ Capping of a Refinery Sludges”, M.S. in Chemical Engineering, Louisiana State University, August 2005, Employment: Unknown
22. 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: CDM Smith, Denver.
23. Bhimasen, Narayan, “Micro-Visualization of Colloidal Gas Aphrons Interaction with Oil”, M.S. in Chemical Engineering, Louisiana State University, August 2000, Employment: Equilon Corporation
24. 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
25. 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)
26. Shephard, Antwane, “Fate of Pyrene during Oligochaete Bioturbation”, M.S. in Chemical Engineering,

- Louisiana State University, August, 1997. Employment: Unknown
27. 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
  28. 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: Sherpa Consulting Sydney, Australia
  29. 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
  30. Choi, Ji Woong, "Laboratory Simulation of the Sea Breeze", M.E.S. (Environmental), University of Sydney, March, 1996. Employment: Unknown- returned to Korea
  31. 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
  32. 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
  33. 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
  34. 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
  35. 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
  36. 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
  37. Dikshit, Mandar M., "Modeling and Experimentation in Bioturbation", M.S. in Chemical Engineering, Louisiana State University, August, 1993. Employment: Private Consulting
  38. Sahay, Nishit, "Mold Filling Studies in Reaction Injection Molding Process", M.S. in Chemical Engineering, Louisiana State University, December, 1992. EMPLOYMENT: ABB Lummus, Houston
  39. 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: Deceased
  40. 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

41. 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
42. 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
43. 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
44. 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
45. 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