

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

**August 2021**

**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  
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)  
Department of Chemical Engineering, University of Sydney, Sydney, Australia (7/93-7/95)  
Shell Professor of Environmental Engineering,

**RECENT AWARDS AND ACTIVITIES:**

2020 Gordon Maskew Fair Award, American Academy of Environmental Engineers and Scientists  
2017 Kappe Lecturer, American Academy of Environmental Engineers and Scientists  
2020- Chair, NAS Overarching Committee on *Progress Toward Ensuring an Outcome of a Safe, Healthy, & Resilient Gulf of Mexico*  
2019 - Executive Editor in Chief, *Environmental Science and Ecotechnology* (Elsevier)  
2018- Member, Programme Advisory Board - Unconventional Hydrocarbons in the UK Energy System  
2018 -Lead Foreign Expert, 111 Project on Fluvial Ecohydraulics, Tsinghua University  
2015-2019 Associate Editor, *Environmental Toxicology and Chemistry*  
2014-2018 Chair, NAS Comm. *Habitat Conservation Plan of the Edwards Aquifer Authority*  
2005 Elected Member of the National Academy of Engineering for the “development of widely used means of managing contaminated sediments”

***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)
- 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 and Former Armstrong Facility, Portland, OR (2020-2022), 243K
- NSF - Planning Grant: Engineering Research Center for Hurricane Urban Planning Hazards Research, National Science Foundation (2018-2021) \$100K (co-PI)
- ESTCP - Application of Passive Samplers to Support Risk Assessment and Long-term Monitoring (2020-2022) (co-PI, TTU share 210K)

**RECENT 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.
2. Fang, J., R. Z. Zhao, B. Rao, M. Rakowska, D. Athanasiou, K. Millerick, S. Y. Wei, X. Y. Lei, H. H. Lou and D. D. Reible (2021) "Removal of Polycyclic Aromatic Hydrocarbons from Water Using Mn(III)-Based Advanced Oxidation Process," *J. Environ. Eng.*, 147(3), 04021002.
3. Pagnozzi, G., Carroll, S., Reible, D. D., & Millerick, K. (2021). Powdered activated carbon (PAC) amendment enhances naphthalene biodegradation under strictly sulfate-reducing conditions. *Environmental Pollution*, 268, 115641.
4. Zhang, X., & Reible, D. (2020). Exploring the Function of Ion-Exchange Membrane in Membrane Capacitive Deionization via a Fully Coupled Two-Dimensional Process Model. *Processes*, 8(10), 1312.
5. Pagnozzi, G., Reible, D. D., & Millerick, K. (2020). The effects of adsorptive materials on microbial community composition and PAH degradation at the sediment cap-water interface. *International Journal of Sediment Research*, Nov.
6. Pagnozzi, G., Carroll, S., Reible, D. D., & Millerick, K. (2020). Biological Natural Attenuation and Contaminant Oxidation in Sediment Caps: Recent Advances and Future Opportunities. *Current Pollution Reports*, 1-14.
7. Yan, S., Rakowska, M., Shen, X., Himmer, T., Irvine, C., Zajac-Fay, R., ... & Reible, D. D. (2020). Bioavailability assessment in activated carbon treated coastal sediment with in situ and ex situ porewater measurements. *Water Research*, 185, 116259.
8. Drygiannaki, I., Bejar, M., Reible, D. D., Dawson, J. A., Rao, B., Hayman, N. T., ... & Colvin, M. A. (2020). Assessing Biota Accumulation Due to Contamination of Sediments by Storm Water Heavy Metals. *Environ. Tox. and Chem.*, 39(12), 2475-2484.
9. Odetayo, A. A., Reible, D. D., Acevedo-Mackey, D., Price, C., & Thai, L. (2021). Application of polyoxymethylene passive air sampler to monitor hydrophobic organics in air around a confined disposal facility. *Chemosphere*, 263, 127827..
10. Bland, G. D., Rao, B., & Reible, D. (2020). Evaluating the transport of Hg (II) in the presence of natural organic matter through a diffusive gradient in a thin-film passive sampler. *Science of The Total Environment*, 141217.

11. Bailon, M. X., Park, M., Choi, Y. G., Reible, D., & Hong, Y. (2020). The application of DGTs for assessing the effectiveness of in situ management of Hg and heavy metal contaminated sediment. *Membrane Water Treatment*, 11(1), 11-23.
12. Hayman, N. T., Rosen, G., Colvin, M. A., Chadwick, B. D., Rao, B., Athanasiou, D., ... & Reible, D. D. (2020). Seasonal Toxicity Observed with Amphipods (*Eohaustorius estuarius*) at Paleta Creek, San Diego Bay, USA. *Environmental Toxicology and Chemistry*, 39(1), 229-239.
13. Drygiannaki, I., Rao, B., Dawson, J. A., Rakowska, M., Reible, D. D., Hayman, N. T., ... & Otto, M. (2020). Assessing sediment recontamination from metals in stormwater. *Science of The Total Environment*, 139726.
14. Odetayo, A. A., Reible, D. D., Acevedo-Mackey, D., Price, C., & Thaib, L. (2020). Development of polyoxymethylene passive sampler for assessing air concentrations of PCBs at a confined disposal facility (CDF). *Environmental Pollution*, 114720.
15. Bryant, W.L., Camilli, R., Fisher, G.B., Overton, E.B., Reddy, C.M., Reible, D., Swarthout, R.F. and Valentine, D.L.(2020) Harnessing a decade of data to inform future decisions: Insights into the ongoing hydrocarbon release at Taylor Energy's Mississippi Canyon Block 20 (MC20) site. *Marine Pollution Bulletin*, 155, p.111056.
16. Honarparvar, S. and Reible, D. (2020). Modeling Multicomponent Ion Transport to Investigate Selective Ion Removal in Electrodialysis. *Environmental Science and Ecotechnology*, 100007.
17. Jonker, M.T., Burgess, R.M., Ghosh, U., Gschwend, P.M., Hale, S.E., Lohmann, R., Lydy, M.J., Maruya, K.A., Reible, D. and Smedes, F. (2020) Ex situ determination of freely dissolved concentrations of hydrophobic organic chemicals in sediments and soils: basis for interpreting toxicity and assessing bioavailability, risks and remediation necessity. *Nature Protocols*, 15(5), pp.1800-1828.
18. Honarparvar, S., Zhang, X., Chen, T., Na, C., & Reible, D. (2019). Modeling technologies for desalination of brackish water—toward a sustainable water supply. *Current Opinion in Chemical Engineering*, 26, 104-111.
19. Li, X., Huang, L., Fang, H., He, G., Reible, D., & Wang, C. (2019). Immobilization of phosphorus in sediments by nano zero-valent iron (nZVI) from the view of mineral composition. *Science of the Total Environment*, 694, 133695.
20. Liu, Y., Reible, D., Hussain, F., Fang, H. (2019). Role of bioroughness, bioirrigation and turbulence on oxygen dynamics at the Sediment-Water Interface. *Water Resources Research*, 55(10), 8061-8075.
21. He, G. J., Han, X., Fang, H. W., Reible, D., & Huang, L. (2019). Effects of roughness Reynolds number on scalar transfer mechanisms at the sediment-water interface. *Water Resources Research*, 55. <https://doi.org/10.1029/2018WR024493>
22. Shen, X., & Reible, D. (2019). An analytical model for the fate and transport of performance reference compounds and target compounds around cylindrical passive samplers. *Chemosphere*, 232, 489-495.
23. Oleszczuk, P., Rakowska, M., Bucheli, T. D., Godlewska, P., & Reible, D. D. (2019). Combined Effects of Plant Cultivation and Sorbing Carbon Amendments on Freely Dissolved PAHs in Contaminated Soil. *Environ. Sci & Tech*, 53(9), 4860-4868.
24. Schneider, H., Jackson, A., Rainwater, K., Reible, D., Morse, S., Hatzinger, P., Garcia-Rubalcava, U. (2019) “Estimation of Interstitial Velocity Using a Direct Drive High Resolution Passive Profiler” *Groundwater*, DOI:10.1111/gwat.12874