

## CURRICULUM VITAE

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## EDUCATION AND EXPERIENCE

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### EDUCATION

- PhD GEORGIA INSTITUTE OF TECHNOLOGY (Atlanta, Georgia). Environmental Engineering, March 1989. Thesis Topic: Fate of Selected Organic Pollutants Codisposed with Municipal Refuse.
- MS GEORGIA INSTITUTE OF TECHNOLOGY (Atlanta, Georgia). M.S. in Sanitary Engineering, December 1980. Special Problem Topic: Anaerobic Biological Treatment of Chemical Processing Wastewater Containing Soluble Organic Substrates.
- BS FLORIDA TECHNOLOGICAL UNIVERSITY (Orlando, Florida). Engineering, Summa Cum Laude, June 1976.  
ROLLINS COLLEGE (Winter Park, Florida). September 1972 through May 1974. Coursework toward B.A. in Mathematics.

### PROFESSIONAL REGISTRATION

State of Georgia, 1981; Professional Engineer No. 12702  
State of Florida, 1992; Professional Engineer No. 51733

### UNIVERSITY PROFESSIONAL EXPERIENCE

- 11/16 to present ASSOCIATE VICE PRESIDENT FOR RESEARCH AND SCHOLARSHIP: University of Central Florida.
- 8/08 to 11/16 ASSISTANT VICE PRESIDENT FOR RESEARCH: University of Central Florida.
- 1/08 to 8/09 INTERIM DIRECTOR, NANOSCIENCE TECHNOLOGY CENTER: University of Central Florida.
- 8/05 to 1/08 EXECUTIVE ASSOCIATE DEAN: College of Engineering and Computer Science, University of Central Florida.
- 8/03 to 8/05 INTERIM CHAIR: Civil and Environmental Engineering Department.
- 8/96 to 8/03 ASSOCIATE DEAN FOR RESEARCH: College of Engineering and

8/00 to present Computer Science, University of Central Florida.  
PROFESSOR OF ENVIRONMENTAL ENGINEERING: Civil and Environmental Engineering Department, University of Central Florida.

8/94 to 8/00 ASSOCIATE PROFESSOR OF ENVIRONMENTAL ENGINEERING: Civil and Environmental Engineering Department, University of Central Florida.

8/89 to 8/94 ASSISTANT PROFESSOR OF ENVIRONMENTAL ENGINEERING: Civil and Environmental Engineering Department, University of Central Florida.

5/86 to 12/89 GRADUATE RESEARCH ASSISTANT: Georgia Institute of Technology.

3/87 to 6/87 GRADUATE TEACHING ASSISTANT: Georgia Institute of Technology.

**OTHER PROFESSIONAL EXPERIENCE**

8/11 to 9/13 ENVIRONMENTAL ENGINEERING PROGRAM DIRECTOR; National Science Foundation, Arlington, VA.

9/84 to 5/86 PROCESS ENGINEER: CH2M HILL, Atlanta, Georgia. Responsibilities included wastewater treatment plant evaluation and design.

11/79 to 9/84 CHIEF, RESEARCH AND DEVELOPMENT DIVISION: BUREAU OF POLLUTION CONTROL, CITY OF ATLANTA, GEORGIA. Supervised six civil engineers. Performed studies of various wastewater treatment processes.

5/79 to 11/79 CIVIL ENGINEER: RESEARCH AND DEVELOPMENT DIVISION, BUREAU OF POLLUTION CONTROL, CITY OF ATLANTA. Performed studies of various wastewater treatment processes.

8/76 to 5/79 CIVIL ENGINEER: KECK AND WOOD, INC., Atlanta, Georgia. Responsibilities included preparation of wastewater treatment plant operations and maintenance manuals and 201 Facilities Plans, and operation of a pilot scale wastewater treatment plant.

## EDUCATION PHILOSOPHY AND ACTIVITIES

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### HIGHLIGHTS

- ◆ Taught eight undergraduate and graduate courses
- ◆ Developed four new courses at UCF
- ◆ Chaired the Body of Knowledge for Environmental Engineering task force (published at <https://www.aaees.org/publications/eebodyofknowledge.php>)
- ◆ Mentored under-represented undergraduate students
- ◆ Chaired the UCF President's Commission on the Status of Women (1998-2001)
- ◆ Researched and published gender diversity issues in engineering education
- ◆ Active faculty advisor for three student groups
- ◆ Professional registration in Georgia and Florida
- ◆ Certified Specialist by AAEE in solid waste management
- ◆ Member of several national associations and committees with engineering education agendas
- ◆ Coach of award-winning Florida Water Environmental Association Design Competition Team (national champions 2003)
- ◆ Author of solid waste management and environmental engineering introductory text
- ◆ ABET Program Evaluator for Environmental Engineering
- ◆ NSF funding for creation of web support for undergraduate course (2000-2002) (<http://msw.cecs.ucf.edu/index.html>)

### AWARDS AND RECOGNITION OF EXCELLENCE IN TEACHING/EDUCATION

- ◆ University and College of Engineering Faculty Advising Award, 1996
- ◆ Student Engineering Council Outstanding Faculty Award, 1993-1994
- ◆ Teaching Incentive Program Award, 1995
- ◆ College of Engineering Teacher of the Year Award, 1995
- ◆ Nominated by Florida Engineering Society for 1995 AT&T Engineering Education Excellence Award
- ◆ UCF and Environmental Engineering Department Teacher of the Year Award, 1992
- ◆ Honorary Nomination by Students to Tau Beta Pi, 1991

## **COURSES TAUGHT AT THE UNIVERSITY OF CENTRAL FLORIDA**

- ◆ EGN 3704      Engineering and the Environment
- ◆ EES 4202      Chemical Process Control
- ◆ ENV 4341      Solid Waste Management
- ◆ ENV 5335\*     Hazardous Waste Management
- ◆ ENV 6055\*     Subsurface Contaminant Transport
- ◆ ENV 4800\*     Air and Waste Management Design
- ◆ ENV 4300\*     Solid Waste Design
- ◆ EGN 1006      Introduction to Engineering

\*Developed at UCF

## **GRADUATE STUDENT ADVISEMENT**

- ◆ Supervised 13 PhD Dissertations
- ◆ Supervised 51 M.S. Theses

## RESEARCH ACTIVITIES SUMMARY

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### HONORS AND AWARDS

- ◆ AAEEES Gordon Maskew Fair Award, 2018
- ◆ AEESP Fellow, 2015
- ◆ AAEEES Kappe Award, 2014
- ◆ Fellow, American Association for the Advancement of Science, 2009
- ◆ 2009 UCF Pegasus Professor
- ◆ 2007 Tech Museum Awards Laureate (The Tech Museum of Innovation)
- ◆ Patent co-owner of Emulsified Zero-Valent Iron (EZVI) technology, inducted into the 2007 Space Technology Hall of Fame
- ◆ 2006 NASA Invention of the Year and Commercialization of the Year award
- ◆ 2006 Award for Excellence in Technology Transfer presented annually by the Federal Laboratory Consortium for Technology Transfer (FLC).
- ◆ 2005 Distinguished Individual Achievement Award, Solid Waste Association of America, Landfill Management Division
- ◆ 2005 Woman of Distinction Technology Award, Citrus Council Girl Scouts
- ◆ 2004 Fellow, American Society of Civil Engineering
- ◆ 2004 Florida Engineering Society Outstanding Technical Achievement Award
- ◆ 2002 AAAS Women in International Scientific Cooperation Travel Grant to Moscow, Russia
- ◆ 2002 American Academy of Environmental Engineers Excellence Award for University Research
- ◆ 2002 Research Incentive Award, UCF
- ◆ 2000 NASA Certificate of Recognition for creative development of exceptional scientific and technical contribution
- ◆ 1997 International Solid Waste Association Publication Award (presented in Wellington, New Zealand)
- ◆ Professional Alumni Achievement Award Winner, UCF College of Engineering, 1992
- ◆ UCF College of Engineering Initiation Departmental Research Award, 1993
- ◆ Sigma Xi, 1989

## PUBLICATIONS - REFEREED JOURNALS

1. Podder, Aditi, Debra Reinhart, Ramesh Goel (2019). Integrated leachate management approach incorporating nutrient recovery and removal, *Waste Management*, 102: 420-431.
2. Lozinski, Duncan, Stephanie C. Bolyard, Debra R. Reinhart, Amir Mohaghegh Motlagh (2019). Treatment of leachate organic matter through sunlight driven processes, *Waste Management*, Volume 94: 18-26.
3. Bolyard, S. C, Debra R. Reinhart, David Richardson (2019). Conventional and fourier transform infrared characterization of waste and leachate during municipal solid waste stabilization, *Chemosphere*, 227: 34-42.
4. Bolyard, S. C., Amir Motlagh, D. Lozinski, D.R. Reinhart (2019). Impact of organic matter from leachate discharged to wastewater treatment plants on effluent quality and UV disinfection, *Waste Management*, 88: 257-267.
5. Kibler, K., D. Reinhart, C. Hawkins, A. Motlagh, J. Wright (2018). Food waste and the food-energy-water nexus: A review of food waste management alternatives, *Waste Management*, doi.org/10.1016/j.wasman.2018.01.014
6. Bolyard, S.C., Reinhart, D.R. (2017). Evaluation of leachate dissolved organic nitrogen discharge effect on wastewater effluent quality. *Waste Management*, <http://dx.doi.org/10.1016/j.wasman.2017.03.025>
7. Maimoun, M.A., D. Reinhart, K. Madani (2016). An environmental-economic assessment of residential curbside collection programs in Central Florida, *Waste Management*, ttp://dx.doi.org/10.1016/j.wasman.2016.04.025
8. Maimoun, M., K. Madani, D. Reinhart (2016). Multi-level multi-criteria analysis of alternative fuels for waste collection vehicles in the United States, *Science of The Total Environment*, doi:10.1016/j.wasman.2016.01.024
9. Bolyard, S. and Debra R. Reinhart (2016). Application of landfill treatment approaches for stabilization of municipal solid waste, *Waste Management*, doi:10.1016/j.wasman.2016.01.024
10. Reinhart, D., Stephanie Boyard, Nicole Berge (2016). Editorial: Grand Challenges – Management of municipal solid waste, *Waste Management*, 49 (2016) 1–2.
11. Nazzal, D; Joseph Zabinski, Alexander Hugar, Debra Reinhart, Waldemar Karwowski, Kaveh Madani (2015), Introduction of Sustainability Concepts into Industrial Engineering Education: a Modular Approach, *Advances in Engineering Education*, ASEE, Vol 4(4).
12. Jain, Pradeep, Jae Hac Ko, Dinesh Kumar, Jon Powell, Hwidong Kim, Lizmarie Maldonado, Timothy Townsend, Debra R. Reinhart (2014) Case study of landfill leachate recirculation using small-diameter vertical wells, *Waste Management*, <http://dx.doi.org/10.1016/j.wasman.2014.07.005>(<http://www.sciencedirect.com/science/article/pii/S0956053X14002906>).
13. Zheng, W., Lü, F., Bolyard, S. C., Shao, L., Reinhart, D. R., & He, P. (2015). Evaluation of monitoring indicators for the post-closure care of a landfill for MSW characterized with low lignin content. *Waste Management* 36(2): 222-229.

14. Bolyard, S. C., D. Reinhart, S. Santra (2013) Behavior of Engineering Nanoparticles in Landfill Leachate, *Environmental Science & Technology*, 47(15): 8114-8122.
15. Amini, Hamid R., Debra R. Reinhart, Antti Niskanen (2013) "Comparison of First-Order-Decay Modeled and Actual Field Measured Municipal Solid Waste Landfill Methane Data," *Waste Management*, , 33(12): 2720-2728.
16. Ko, J., Powell, J., Jain, P., Kim, H., Townsend, T., and Reinhart, D. (2013). "Case Study of Controlled Air Addition into Landfilled Municipal Solid Waste: Design, Operation, and Control" *J. Hazard. Toxic Radioact. Waste*, 10.1061/(ASCE)HZ.2153-5515.0000183.
17. Maimoun , Mousa A., Debra R. Reinhart , Fatina T. Gammoh , Pamela McCauley Bush (2013) "Emissions from US waste collection vehicles, *Waste Management*, Volume 33(5), 1079-1089.
18. Amini, Hamid R., Debra R. Reinhart, Kevin R. Mackie (2012) "Determination of first-order landfill gas modeling parameters and uncertainties," *Waste Management*, 32 (2): 305-316.
19. Timmons, J., Young Min Cho, Timothy Townsend, Nicole Berge and Debra Reinhart (2011), "Total Earth Pressure Cells for Measuring Loads in a Municipal Solid Waste Landfill," *Geotechnical and Geological Engineering*, DOI: 10.1007/s10706-011-9452-7
20. Amini, H., Debra R. Reinhart (2011) "Regional prediction of long-term landfill gas to energy potential," *Waste Management*, 31(9-10):2020-2026.
21. Sunghthong, D. and Debra R. Reinhart (2011) "Control of hydrogen sulfide emissions using autotrophic denitrification landfill biocovers: engineering applications," *Frontiers of Environmental Science & Engineering in China*, Volume 5, Number 2, 149-158, DOI: 10.1007/s11783-011-0324-4.
22. Xu, Qiyong, Timothy Townsend, Debra Reinhart (2010), "Attenuation of hydrogen sulfide at construction and demolition debris landfills using alternative cover materials," *Waste Management*, 30, Issue 4, 660-666.
23. Reinhart, D. R., Bolyard, S., N. D. Berge, S. Santra (2010) "Emerging contaminants: Fate of Nanomaterials in MSW Landfills," *Waste Management*, 30 (11) , pp. 2020-2021.
24. Batarseh, E. H., D. R. Reinhart, N. B. Berge (2010) "Sustainable Disposal of MSW: Post Bioreactor Landfill Polishing," *Waste Management*, 30(11): 2170-2176.
25. Moqbel, S., Debra Reinhart, Ruey-Hung Chen (2010) "Factors Influencing Spontaneous Combustion of Solid Waste" *Waste Management*, 30(8-9): 1600-1607.
26. Gawande, N., D. Reinhart, G. Yeh (2009) "Modeling Microbiological and Chemical Processes in Municipal Solid Waste Bioreactor, Part I: Development of a three-phase Numerical Model BIOKEMOD-3P," *Waste Management*, 30: 202-210.
27. Gawande, N., D. Reinhart, G. Yeh, "Modeling Microbiological and Chemical Processes in Municipal Solid Waste Bioreactor, Part II: Application of Numerical Model BIOKEMOD-3P" *Waste Management*, 30: 211-218.
28. Kumar, D., S. Jonnalagadda, P. Jain, N. Gawande, T. Townsend, and D. Reinhart (2009) "Field Evaluation of Resistivity Sensors for In Situ Moisture Measurement in a Bioreactor Landfill," *Waste Management*, 29(5): 1547-1557.
29. Jonnalagadda, S., Kumar, D., Jain, P., Gawande, N., Townsend, T.G., Reinhart, D.R.

- (2010) "Comparison of resistivity and time domain reflectometry sensors for assessing moisture content in bioreactor landfills," *Geotechnical Testing Journal* 33 (3).
30. Berge, N. D., D. Reinhart, E. Batarseh (2009) "An Assessment of Bioreactor Costs and Benefits," *Waste Management*, dx.doi.org/10.1016/j.wasman.2008.12.010.
  31. Nalamothu, R. C., D. R. Reinhart, R. L. Wayson, A. Martin, M. Rogoff (2008) "Urban Infilling Impacts on Florida Solid Waste Facilities," *MSW Management*, 18(7): 60-71.
  32. Jessen, A., A. Randall, D. Reinhart (2007) "Effectiveness and Kinetics of Ferrate as a Disinfectant for Ballast Water," *Water Environment Research*, 80(6): 61-69.
  33. Cochran, K., T. Townsend, D. Reinhart, H. Heck (2007) "Estimation of Regional Building-Related C&D Debris Generation and Composition: Case Study for Florida, USA," *Waste Management*, 27: 921-931.
  34. Berge, N. D., Debra R. Reinhart, John D. Dietz (2007) "A Strategy for Complete Nitrogen Removal in Bioreactor Landfills," *ASCE Journal of Environmental Engineering*, 133(12): 1117-1125.
  35. Batarseh, E. B., D. R. Reinhart, L. Daly (2007) "Liquid Sodium Ferrate and Fenton's Reagent for Treatment of Mature Landfill Leachate," *ASCE Journal of Environmental Engineering*, 133(11): 1042 - 1050.
  36. Berge, N. D., Debra R. Reinhart, John D. Dietz, and Tim Townsend (2007) "The Impact of Temperature and Gas-Phase Oxygen on Kinetics of In-Situ Ammonia Removal in Bioreactor Landfill Leachate," *Water Research* 41: 1907-1914.
  37. Faour, A., D. R. Reinhart, and H. You, (2007) "First-Order Gas Generation Model Parameters for Wet Landfills," *Waste Management*, 27: 946-953.
  38. Imhoff, P.T. Debra R. Reinhart, Marja Englund, Roger Guérin, Nitin Gawande, Byunghyun Han, Sreeram Jonnalagadda, Timothy G. Townsend, Ramin Yazdani, (2007) "Review Of State-of-the Art Methods For Measuring Water In Landfills," *Waste Management*, 27: 729-745.
  39. Eun, S., D. R. Reinhart, T. Townsend, C. D. Cooper (2007) "Modeling and Measurement of Hydrogen Emissions at C&D Landfills," *Waste Management*, 27(2): 220-227.
  40. Powell, J., Jain, P., Kim, H., Townsend, T., Reinhart, D. (2006) "Changes in Landfill Gas Quality as a Result of Controlled Air Injection," *Environmental Science and Technology*, 40: 1029-1034.
  41. Gillis, N.; Walters, L.; Yeargain, M.; Reinhart, D. (2005) "Effectiveness of Ferrate (FeO<sub>4</sub><sup>2-</sup>) as a ballast water disinfectant, *Integr. Comp. Biol.* **2005**, 45, (6), 1137-1137.
  42. Lindberg, S.E. G. Southworth, M. Bogle, T. Blasing, H. Zhang, T. Kuiken, J. Price, D. Reinhart, H. Sfeir, J. Owens, and K. Roy (2005). "Airborne Emissions of Mercury from Municipal Solid Waste: New Measurements from Six Operating Landfills in Florida," *JAWMA*, 55: 859-869.
  43. Southworth, G. S. Lindberg, M. Bogle, H. Zhang, T. Kuiken, J. Price, D. Reinhart, and H. Sfeir (2005) "Airborne Emissions of Mercury from Municipal Solid Waste II: Potential Losses of Airborne Mercury Prior to Landfill," *JAWMA*, 55: 870-877.



44. Berge, N.D., Reinhart, D.R., and Townsend, T.G. (2005) "A Review of the Fate of Nitrogen in Bioreactor Landfills," *Critical Reviews In Environmental Science And Technology*, 35: 365-399.
45. Berge, N.D., Reinhart, D.R., Dietz, J., and Townsend, T.G. (2006) "In-Situ Ammonia Removal from Bioreactor Landfill Leachate," *Waste Management* 26: 334-343.
46. Jain, P., J. Powell, T. Townsend, D. Reinhart (2006) "Estimating the Hydraulic Conductivity of Landfilled Solid Waste Using the Borehole Permeameter Test," *ASCE JEE*, 132(6): 645-652.
47. Jain P, J. Powell, T. Townsend, D. Reinhart (2005) "Air Permeability of Waste in a Municipal Solid Waste Landfill," *ASCE JEE* 131(11), 1565-1573.
48. Nitin A. Gawande, D. Reinhart, P. McCreanor, T. Townsend, P. Thomas (2003) "Municipal Solid Waste In Situ Moisture Content Measurement Using An Electrical Resistance Sensor Design and Operation Of Bioreactor Landfills," *Waste Management*, 23(7): 667-674.
49. Reinhart, D., T. Townsend, and P. McCreanor (2002) "The Status of Bioreactor Landfills" *Waste Management and Research*, 20: 67-81.
50. Lindberg, S. E., D. Wallschläger, E.M. Prestbo, N.S Bloom, J. Price, And D. Reinhart (2001) "Methylated Mercury Species In Municipal Waste Landfill Gas Sampled In Florida," *Atmospheric Envir.*, 35(8): 4011.
51. Geiger, C. L., D. R. Reinhart, C. A. Clausen, N. E. Ruiz, and J. W. Quinn (2001) "Ultrasound Pretreatment of Elemental Iron: Kinetic Studies of Dehalogenation Reaction Enhancement and Surface Effects," *Water Research*, 36(5): 1342-1350.
52. Ruiz, N, S. Seal, and D. Reinhart, (2000) "Surface Chemical Reactivity in Selected Iron Samples Used In Remediation Technology," *Journal of Hazardous Materials*, B80: 107-117.
53. McCreanor, P. and D. Reinhart (1999) "Hydrodynamic Modeling of Leachate Recirculating Landfill," *Waste Management and Research*, 17: 465-469.
54. Reinhart D. and P. McCreanor (2000) "Medical Waste Management: Where does the Solid Waste Go?" *Laboratory Medicine*, 31(3): 141-145.
55. McCreanor, P. and D. R. Reinhart (2000) "Mathematical Modeling of Leachate Recirculating Landfill," *Water Research*, 34(4): 1285-1295.
56. Sfeir, H., D. R. Reinhart, P. McCauley-Bell (1999) "An Evaluation of MSW Composition Study Bias Sources," *Air and Waste Management Association Journal*, 49: 74-185.
57. McCauley-Bell, P., D. R. Reinhart, H. Sfeir, B. O. Ryan (1997) "Municipal Solid Waste Composition Studies," *ASCE Practice Periodical of Hazardous, Toxic, and Radioactive Waste Management*, 1(4): 158-163.
58. Quinn, J. W. and D. R. Reinhart (1997) "Bioremediation of Diesel Contaminated Soil Using Biopiles," *ASCE Practice Periodical of Hazardous, Toxic, and Radioactive Waste Management*, 1(1): 18-25.
59. McCreanor, P. T. and D. R. Reinhart (1996) "Hydrodynamic Modeling of Leachate Recirculation," *Water, Science, and Technology*, 34(7-8): 463-470.

60. Reinhart, D.R., (1996) "Full-Scale Experiences with Leachate Recirculating Landfills - Case Studies," *Waste Management and Research*, 14: 347.
61. Reinhart, D.R. and B. A. Al-Yousfi, (1996) "The Impact of Leachate Recirculation of MSW Landfill Leachate and Gas Characteristics," *Waste Management and Research*, 14: 337.
62. Reinhart, D. R. and Scott Trainor (1995) "Windrow Co-Composting of Municipal Biosolids and Yard Waste," *Compost Science*, 3(2): 38.
63. Reinhart, D.R., J. Dietz, L. Tunnell, (1994) "Landfill Leachate Treatment for Biological Nutrient Removal from Wastewater," *Int. J. of Environment and Pollution*, 4(1/2): 97.
64. Reinhart, D.R., A.R. deForest, and S. J. Keely, (1993) "Composting of Yard Waste and Wastewater Treatment Plant Sludge Mixtures," *Compost Science*, 1(2)58.
65. Reinhart, D. R. (1993) "A Review of Recent Studies on the Sources of Hazardous Compounds Emitted from Municipal Solid Waste Landfills: A US Experience," *Waste Management and Research*, 11, 257.
66. Reinhart, D. R. and P. Fleming (1992) "Controlling Factors of Stabilization Rates for Yard Waste Composting in Southeastern United States," *The Journal of Resource Management and Technology*, 20(3) 149.
67. Reinhart, D.R., C. D. Cooper, and B. L. Walker (1992) "Flux Chamber Design and Operation for the Measurement of Municipal Solid Waste Landfill Gas Emission Rates," *Air and Waste Management Journal*, 42(8): 1067.
68. Reinhart, D.R. and F. G. Pohland (1991) "The Fate of Selected Organic Pollutants Codisposed with Municipal Refuse," *WPCF Research Journal*, 63(4): 780.
69. Reinhart, D.R. and F. G. Pohland (1991) "The Assimilation of Organic Hazardous Wastes Codisposed with Municipal Refuse," *Journal of Industrial Microbiology*, 8: 193.
70. Reinhart, D.R. and F. G. Pohland (1991) "Mathematical Fate Modeling of Hazardous Organic Pollutants During Codisposal with Municipal Refuse," *Hazardous Waste & Hazardous Materials*, 8(1): 85.
71. Richards, J.T. and D. R. Reinhart (1986) "Evaluation of Plastic Media in Trickling Filters," *Journal Water Pollution Control Federation*, 58(7): 774.
72. Morales, L. and D. Reinhart (1984) "Full-Scale Evaluation of Aerated Grit Chambers," *Journal Water Pollution Control Federation*, 56(4): 337.
73. Troxler, R., D. Reinhart, and A. Hallum (1984) "Metro Atlanta Water Pollution Control -A Decade of Progress," *Journal Water Pollution Control Federation*, 56(4): 337.
74. Reinhart, D.R. (1979) "Nitrification Treatability Study for Carrollton, Georgia," *Journal Water Pollution Control Federation*, 51(5): 1032.

## BOOKS

1. S. Bartelt-Hunt, N, Berge, D. Reinhart , **eTextbook on Municipal Solid Waste**, EREF, <https://erefdn.org/eref-municipal-solid-waste-etextbook/>, 2018

2. Townsend, T., Q. Xu, P. Jain, J. Powell, T. Tolaymat, D. Reinhart, **Sustainable Landfills - Design Considerations and Options, Operation, Maintenance, and Closure**, Springer Science, New York, NY, 2015.
3. Vesilind, W. Worrell, and D. Reinhart, **Solid Waste Engineering**, Brooks/Cole, Pacific Grove, CA, 2002.
4. C. D. Cooper, J. D. Dietz, and D. Reinhart, **Fundamentals of Environmental Engineering**, Waverly Press, New York, NY, 1999.
5. D. R. Reinhart and T. G. Townsend, **Landfill Bioreactor Design and Operation**, CRC Press, New York, NY, 1998.
6. R. Nivargikar and D. R. Reinhart, ed., **Quality Assurance: A National Commitment**, ASCE Press, Washington D.C., 1997.

### SPONSORED RESEARCH AWARDS

1. MSW Combustion Ash Co-Disposal with Unburned Waste - Implications for Elevated Temperature Landfills, PI, EREF, 12/01/2018 - 11/30/2020, \$140,000.
2. "Detection and Separation of Recyclable Plastics from Municipal Solid Waste," coPI, HCSHWM, 09/01/2018 - 08/31/2020, \$76,000.
3. "Developing Strategies to Recover and Treat Nutrients in Landfill Leachate," PI, EREF, 12/15/2016-12/15/18, \$49,500.
4. "Characterization of Florida Landfills with Elevated Temperatures," PI, HCSHWM, 9/2016 - 8/2017, \$35,000.
5. "Volusia County Landfill Elevated Temperatures Investigation, PI, S2Li, 3/2016 - 12/2019, \$46,700.
6. "Fate of Organic Matter from Leachate Discharged to Wastewater Treatment Plants," Principal Investigator, HCSHWM, 8/4/2014-9/30/2015, \$43,680.
7. "Municipal Solid Waste Leachate Organic Matter Generation and Removal," NSF, PI, 9/1/2014 - 8/31/2017, \$315,356.
8. "IPA: NSF Assignment as Environmental Engineering Program Director," NSF, 9/12/11-9/10/13, \$486,588.
9. "Pump and Treat Aerobic Flushing Bioreactor, Principal Investigator", Hinkley Center for Solid and Hazardous Waste Management (HCSHWM), 2011-2013, \$70,000.
10. "The Landfill as a Sustainable Energy Park," Co- Principal Investigator, Hinkley Center for Solid and Hazardous Waste Management (HCSHWM), 2012, \$35,000.
11. "Analysis of Landfill Gas Collection Efficiency," Principal Investigator, ARCADIS (EPA subcontractor), 2010, \$35,000.
12. "I3: The UCF Community Embraces the Knowledge-Based Economy," co-Principal Investigator (managing PI, Provost was PI), NSF, 2010, \$410,244 of \$1,000,000 to date.
13. "Construction & Demolition Debris Recovery and Recycling," Principal Investigator, Hinkley Center for Solid and Hazardous Waste Management (HCSHWM), 2010, \$81,549.

14. "Ergonomic Study of Solid Waste Collection," Co-Principal Investigator, Environmental Research and Education Foundation (EREF), 2010, \$180,271.
15. "Integrating Sustainability into the Industrial Engineering Curriculum," Co-Principal Investigator, NSF, 2010, \$149,824.
16. "Fate of Nanoparticles in Municipal Solid Waste Landfills," Principal Investigator, EREF, 2010, \$156,544.
17. "Coal Ash/Biosolids Alternative Landfill Cover Material Analysis," Principal Investigator, CDM, 2010, \$14,906.
18. "Landfill Gas to Energy Projects: Incentives and Benefits," Principal Investigator, HCSHWM, 2008, 2009, \$35,000.
19. "Application of Anthraquinone in Landfills to Minimize the Formation of H<sub>2</sub>S," Principal Investigator, Global Methane Control, 2007, \$30,000.
20. "Environmental Engineering Body of Knowledge," Principal Investigator, NSF, 2007, \$24,060.
21. "Phase I SBIR: The Application of Ferrate for Wastewater Reuse," Principal Investigator, FTT, 2007, \$7,500.
22. "Landfill Gas Management: A Roadmap for EREF Directed Research," Principal Investigator, EREF, 2007, \$43,493.
23. "Use of Vegetative Mulch as Daily and Intermediate Landfill Cover," Principal Investigator, HCSHWM, 2007, 2008, 2009, \$80,000.
24. "Performance Based Decision System for Determining Post-Closure Care," Principal Investigator, HCSHWM, 2006, \$45,000.
25. "Initial Phase Study of Phosphogypsum - Landfill Project," Principal Investigator, Florida Institute of Phosphate Research, 2006, \$113,597.
26. "Control of H<sub>2</sub>S Emissions using Autotrophic Denitrification Covers," Principal Investigator, EREF, 2006, \$25,000.
27. "Characterizing Spontaneous Fires in Landfills," Principal Investigator, Environmental Research and Education Foundation, 2006, \$81,200.
28. "Urban Infilling Impacts on Florida's Solid Waste Facilities," Principal Investigator, HCSHWM, 2006, \$70,000.
29. "Ferrate Treatment System Full-Scale Controlled Test," Principal Investigator, NOAA (through FTT), 2006, \$119,906.
30. "Ferrate Student Support," Principal Investigator, FTT, 2005, \$60,000.
31. "Laboratory-Scale Investigation of Ballast Water Treatment Using Ferrate," Principal Investigator, NOAA (through FTT), \$75,000.
32. "Long-Term Treatment and Disposal of Landfill Leachate," Principal Investigator, HCSHWM, 2003, \$53,360.
33. "Bringing Engineering to Tangelo Park," Principal Investigator, NSF, 2003, \$50,000.
34. "Bioreactor Landfill Gas Prediction," Principal Investigator, ARCADIS (subcontractor to USEPA), 2003, \$21,593.
35. "Design and Operational Issues Related to the Co-Disposal of Sludges and Biosolids in Class I Landfills - Phase II," Principal Investigator, FCSHWM, August 2003 - July 2004, \$43,677.

36. "Commercializing Ferrate (Iron VI) for Use in Municipal and Industrial Water and Wastewater Treatment," Principal Investigator, Ab Initio and Florida High Tech Corridor, May, 2002 – June, 2003, \$122,000.
37. "American Association for the Advancement of Science," Principal Investigator, WISC Program, Modeling of Bioreactor Landfills," July, 2002 – June, 2003, \$4,000.
38. "Control of Odors from Construction and Demolition Debris Landfills," Principal Investigator, FCSHWM, September 2002 – August 2003, \$58,000.
39. "Rapid Dechlorination of Polychlorinated Biphenyls in Soils by Pd/Fe Bimetallic Emulsions," Co Principal Investigator, NASA, April 2002 – April 2003, \$14,950.
40. "US-Jordan, Municipal Hazardous Waste; Management Collaborative Research," Principal Investigator, NSF, \$25,900, April 2002 – June 30, 2003.
41. "Reductive Emulsions for Remediation of Groundwater Contaminated with Halogenated Hydrocarbons," Co-Principal Investigator, NASA, April 2002 – April 2003, \$14,950.
42. "Bioreactor Landfill Operation," Principal Investigator, August 2002 – July 2003, Waste Management, \$50,000.
43. "Full-Scale Management of Nitrogen at a Landfill Bioreactor," Principal Investigator, Environmental Research and Education Foundation, June 2002 – May 2004, \$30,000.
44. "Design and Operational Issues Related to the Co-Disposal of Sludges and Biosolids in Class I Landfills," Principal Investigator, Florida Center for Solid and Hazardous Waste Management, September 2001 –December 2002, \$73,530.
45. Ultrasound Enhancement of Zero-Valent Permeable Treatment Wall," Principal Investigator, NASA, September 2001 – April 2002, \$50,000.
46. "Bioreactor Water Balance," Principal Investigator," FCSHWM, September, 2000 – August 2001, \$86,000.
47. "MSW Learning Tool," Principal Investigator, NSF, January, 2001 – October 2002, \$75,000.
48. "Field Demonstration of Ultrasound Enhancement of Permeable Treatment Walls," Co-Principal Investigator, Gulf Coast Hazardous Substance Research Center, Sept. 2000-Sept 2003, \$67,000.
49. "Jordanian MSW Management Collaborative Research," Co-Principal Investigator, NSF, September 2000 – September 2001, \$26,000.
50. "Generation of Construction and Demolition Waste in Florida," Principal Investigator, FCSHWM, April 2000 – July 2002, \$150,000.
51. "In-Situ Reductive Dehalogenation of DNAPLS By the Use of Emulsified Zero-Valent Nanoscale Iron Particles," Co-Principal Investigator, NASA STTR to Geosyntec, August 1999 – June 2002, \$138,000.
52. "Florida Landfill Mercury Air/Surface Exchange Project- Phase I - IV," Principal Investigator, Florida Department of Environmental Protection, June, 1999 - December 2003, \$65,000.
53. "Field Demonstration of Ultrasound Enhancement of Permeable Treatment Walls," Principal Investigator, Gulf Coast Hazardous Substance Research Center, September 1999 – August 2000, \$123,000.

54. "Field Demonstration of Ultrasound Enhancement of Permeable Treatment Walls," Principal Investigator, NASA, June 1999 - December 2000, \$50,000.
55. "Leachate Collection Systems for the New Millennium," Principal Investigator, FCSHWM, April 1999 - May 2000, \$14,000.
56. "Florida Bioreactor Demonstration Project" Principal Investigator, FCSHWM, January 1999 - June 2003, \$344,000.
57. "Implications of Time/Space Variable Leachate Head on Liner Leakages." Principal Investigator, FCSHWM, April 1998 - May 1999, \$17,000.
58. "Florida Landfill Mercury Air/Surface Exchange Project, Phase I", Principal Investigator, Florida Department of Environmental Protection, March, 1998 - June, 1999, \$18,000.
59. "Development Of Planning Tools for Disaster Debris Management," Principal Investigator, US Environmental Protection Agency, September 1998- August 1999, \$32,384.
60. "The Interaction of Microbial Activity and Zero-Valent Iron Permeable Barrier Technology," Co-Principal Investigator, Gulf Coast Hazardous Substance Research Center, December 1997 - December 2000, \$150,000.
61. "Assessment of Biological Clogging of Leachate Collection Systems," Principal Investigator, FCSHWM, February 1997 - June 1998, \$14,989.
62. "Prediction and Measurement of Leachate Head on Liners" Principal Investigator, FCSHWM, February 1997 - June 1998, \$19,822.
63. "Demonstration of Electrokinetic Treatment of Groundwater," Co-Principal Investigator, NASA, September 1996 - December 1999, \$225,000.
64. "Analysis of Florida MSW Landfill Leachate Quality Data," Principal Investigator, FCSHWM, March, 1996 - June, 1997, \$14,000.
65. "Permeable Reactive Wall Field-Scale Application," Principal Investigator, NASA, October 1996 - December 1998, \$549,000.
66. "Development of a Tool to Facilitate MSW Composition Studies," Co-Principal Investigator, FCSHWM, March 1996 - June 1997, \$22,000.
67. "Waste Composition Study for Marion County, FL," Co-Principal Investigator, Marion County, 1624-850, September 1996 - December 1996, \$14,000.
68. "Enhancement of In Situ Zero-Valent Treatment," Co-Principal Investigator, NASA, 1995-1997, \$180,000.
69. "Waste Composition Study," Principal Investigator, FCSHWM, 1995, \$50,000.
70. "Solid Waste Research," Principal Investigator, Reedy Creek Energy Services, 1994-1995, \$14,000.
71. "Gender Diversity Issues in Engineering Education at UCF," Principal Investigator, UCF Strategic Planning Initiative Award Program, \$15,000.
72. "Hydrodynamic Modeling of Leachate Recirculating Landfills," Principal Investigator, Gulf Coast Hazardous Substance Research Center, 1994 - 1997, \$160,000.
73. "Beneficial Reuse of Landfill Gas," Principal Investigator, FCSHWM, 1993-1994, \$14,000.

74. "Co-Composting of Wastewater Sludge and Yard Waste," Principal Investigator, HDR Engineering, August 1993 - May, 1994, \$38,000.
75. "Landfill Gas Emissions," Principal Investigator, Orange County Public Utilities Division, January 1993 - March 1995, \$131,474.
76. "Landfill Gas Emissions, Alachua County Landfill," Principal Investigator, University of Florida; June 1992 - July 1995, \$66,000.
77. "Nitrification Inhibition - Following Introduction of MSW Leachate," Principal Investigator, Orange Co. Public Utilities Division, 1992, \$58,249.
78. "Lake County Landfill Mining Study," Principal Investigator, PBS&J, August - September 1992, \$5,000.
79. "Active MSW Landfill Operation," Principal Investigator, US Environmental Protection Agency, Sept. 1992 - August 1995, \$387,129.
80. "Active MSW Landfill Operation," Principal Investigator, Gulf Coast Hazardous Substance Research Center, 1991 - 1992, \$38,000.
81. "Landfill Gas Emissions," Co-Principal Investigator, FCSHWM, 1990 - 1992, \$80,000.
82. "Pilot Yard Waste Compost Demonstration Project," Principal Investigator, Post, Buckley, Schuh & Jernigan, July 1990 - December 1992, \$88,000.
83. "The Source of Toxic Pollutants in Municipal Solid Waste Landfill Emissions," Principal Investigator, Gulf Coast Hazardous Substance Research Center, 1990 - 1991, \$5,000.
84. "Landfill Gas Emissions," Principal Investigator, UCF EIES, Spring 1991, \$9,000.
85. "Solid Waste Resource Recovery and Disposal," Principal Investigator, UCF EIES, 1989 - 1990, \$9,078.

## CONFERENCE PAPERS AND PRESENTATIONS

1. Reinhart, D.R., A. Motlagh, R. Joslyn D. Lozinski R. Mackey, S. Levin, "Case Study of an Elevated Temperature Landfill, GWMS, Indian Wells, California, 2018.
2. D. Reinhart, S. Bolyard, A. Motlagh, B. Cottrell, Treatment Of Leachate Organic Matter Through Sun-Light Driven Photolysis, Sixteenth International Waste Management and Landfill Symposium, Sardinia, Italy, October 3, 2017
3. Reinhart, D.R., R. Mackey, S. Levin, R. Joslyn, A. Motlagh, "Field Investigation of an Elevated Temperature Florida Landfill," Geotechnical Frontiers Conference, Orlando, FL. March 13, 2017.
4. Reinhart, D.R., A. Motlagh, R. Joslyn, "Florida Elevated Temperature Florida Landfill Case Study," Solid Waste Directors' Information Exchange Meeting, Orlando, FL, February 17, 2017.
5. D. Reinhart, T. Sarker, K. Kibler, Food Waste Management Alternatives Within The Food-Energy-Water Nexus, Venice 2016 Sixth International Symposium on Energy from Biomass and Waste, November 2016.
6. Dursun, D., Duncan Lozinski, Stephanie Bolyard, Debra Reinhart, "Solar-Driven Photolysis Coupled with Pretreatment Methods as an Alternative for Leachate

- Treatment," EurAsia Waste Management Symposium, 2-4 May 2016, YTU 2010 Congress Center, İstanbul/Türkiye.
7. Reinhart, D. R., "Advancement in Solid Waste Landfilling," Invited Speaker, University of California - Irving, May, 2015.
  8. Reinhart, D. R., "Advancement in Solid Waste Landfilling," Nov. 2014, Tsinghua University, Beijing, China.
  9. Reinhart, D. R., "Municipal Solid Waste Research at UCF," Tianjin University, China, Nov. 2014.
  10. Reinhart, D. R., "Nitrogen in Landfills," VIU Landfill Design International Summer School, July 2014, Venice, Italy.
  11. C. Poindexter, D. Reinhart, B. Swan, V. McNeil, The University of Central Florida STEAM Program. *Frontiers in Education*, October, 2016, DOI: 10.1109/FIE.2016.7757414
  12. Where Engineering Education and Art Meet
  13. Reinhart, D. M. Toth, N. Sorloaica, "Landfill Closed Sites as Energy Parks," SWANA Florida Summer Conference, July 28-29, 2014.
  14. Reinhart, Debra R., Invited talk, Columbia University Fall 2013 Seminar Series, "Beyond Bioreactor landfills, November, 2013.
  15. Bolyard, Stephanie C., Reinhart, Debra R., and Santra, Swadeshmukul, "Pump and Treat Aerobic Flushing Bioreactor Landfill," Fourteenth International Waste Management and Landfill Symposium, Sardinia, Italy, October 3, 2013.
  16. Reinhart, Debra R., "Converting Landfill Sites into Sustainable Energy Parks," Fourteenth International Waste Management and Landfill Symposium, Sardinia, Italy, October 4, 2013.
  17. Reinhart, Debra R., Invited talk, Sustainable Landfilling: Beyond Bioreactors, USGS, Reston VA, June 2013.
  18. Bolyard, Stephanie C., Reinhart, Debra R., and Santra, Swadeshmukul, "Pump and Treat Aerobic Flushing Bioreactor Landfill," the International Solid Waste Association BEACON 2nd International Conference on Final Sinks, Espoo, Finland, May 16-18, 2013.
  19. Reinhart, Debra R., invited talk, "My Thoughts on Pathways to Success," UMass-Amherst, Civil Engineering Women's Leadership Seminar Series, March, 2013.
  20. Bolyard, Stephanie C., Reinhart, Debra R., "Pump and Treat Aerobic Flushing Bioreactor Landfill," presentation at BioWET Summary School Workshop at USF, Tampa, Florida, June 16th, 20th, 2012.
  21. Debra R. Reinhart, "The Role of Landfills in US Sustainable Waste Management," 7th ICLRS, Lulea, Sweden, June, 2012.
  22. Debra R. Reinhart, "Landfill Gas Modeling," 7th ICLRS, Lulea, Sweden, June, 2012.
  23. McCauley Bush, Pamela, Fatima T. Gammoh, Mousa A. Maimoun, and Debra R. Reinhart, "Ergonomics Evaluation of Solid Waste Collection," Global Waste Management Symposium, Phoenix, Az, June, 2012.
  24. Reinhart, Debra R., "Bioreactor Landfills," presentation at BioWET Summary School Workshop at USF, Tampa, Florida, June 16th, 2012.



25. Reinhart, Debra R., "Body of Knowledge for Environmental Engineering – Next Steps," Environmental Engineers Chairs and Heads Workshop, Ohio Univ., July 2012.
26. Reinhart, Debra R. and Hamid Amini, "Evaluating Landfill Gas Collection Efficiency Uncertainty," Thirteenth International Waste Management and Landfill Symposium, Sardinia, Italy, October, 2011.
27. Reinhart, Debra R. and A. Haddad, and M. Chopra, "Comparative life cycle assessment of different waste management options for green waste" Thirteenth International Waste Management and Landfill Symposium, Sardinia, Italy, October, 2011.
28. Reinhart, Debra R., Fatima T. Gammoh, Mousa A. Maimoun, and Pamela McCauley Bush, " Solid Waste Collection Environmental and Ergonomic Study," EREF Regional Waste Symposium, Raleigh, NC, September 2011.
29. Reinhart, D. "Integrating Economic and Financial Principles into Environmental Engineering Research and Education," NSF Environmental Summit, January 27 and 28, 2011.
30. Reinhart, D. "Sustainable Landfilling," Invited speaker, Tsinghua University, Beijing, China, December 14, 2011.
31. Reinhart, D. "Broadening STEM Higher Education, Service Learning Day," UCF, Oct 8, 2010.
32. Reinhart, D. and S. Bolyard "Nanomaterials and the Environment," NanoFlorida 2010, UCF, September 18, 2010.
33. Reinhart, D., M. Chopra, A. Haddad "Use of Vegetative Mulch as Alternative Cover Material," Global Waste Management Symposium, San Antonio, TX, Oct. 3-6, 2010.
34. Reinhart, D., A. Joshi "Post-Closure Care Duration Evaluation for a US Landfill," 6th ICLRS, Kyoto Resort, Hokkaido, Japan, June 8-11, 2010.
35. Reinhart, D. "Emerging Contaminants Fate in Landfills," 6th ICLRS, Kyoto Resort, Hokkaido, Japan, June 8-11, 2010.
36. Reinhart, D. "Sustainable Landfilling," Invited speaker, University of Istanbul, May 10, 2010.
37. Reinhart, D. "Implementing the Environmental Engineering Body of Knowledge," Association of Environmental Engineering and Science Professors Biennial Meeting, Iowa State University, July 27-29, 2009.
38. Reinhart, D. "Solid Waste Research at the University of Central Florida," Sustainable Use of Resources Center, Columbia University, April 17, 2009.
39. Reinhart, D. "Solid Waste Research at the University of Central Florida," CEMAGREF, Antony Research Center, February 2-5, 2009.
40. Reinhart D. and H. Amini "Uncertainty Estimation of Landfill Gas Generation," USEPA LMOP Conference, January 22, 2009.
41. Reinhart, D. "MSW Landfills: Temperature and Energy Issues," 5th ICLRS, Copper Mountain, CO, September 12-14, 2008.
42. Gawande, N., N. D. Berge, and D. R. Reinhart "A Three Phase Microbiological and Chemical Kinetic-and-Equilibrium Model (BIOKEMOD-3P) For Simulating Solid

- Waste Biodegradation," Global Waste Management Symposium, Copper Mountain, CO, September 9-12, 2008.
43. Reinhart, D., Kumar, A., and T. Townsend "Temperature Inside the Landfill: Effects of Liquid Injection," Global Waste Management Symposium, Copper Mountain, CO, September 9-12, 2008.
  44. Reinhart, D. R. "Developing a Body of Knowledge for Environmental Engineering," ASEE Annual Conference, Pittsburgh, PA, June 23-25, 2008.
  45. Nalamothu, R. C., D. R. Reinhart, R. L Wayson, A. Martin, M. Rogoff "Urban Infilling Impacts on Florida Solid Waste Facilities," SWANA Landfill Symposium, Palm Springs, FL, June 6-10, 2008.
  46. Reinhart, D. R. "Sustainable Landfills Using Bioreactors," Invited Speaker, 2<sup>nd</sup> National Landfill and Transfer Stations Conference, Melbourne, Australia, Nov. 19-21, 2007.
  47. Reinhart, D.R., N.B. Berge, and E. B. Batarseh "Economics of Bioreactor Landfills," invited speaker, Bioreactor Landfill Workshop - USEPA and World Bank, November 13, 2007.
  48. Batarseh, E. B, J. Ladner, D. Reinhart, N. Berge "Economical Issues Related to Solid Waste Biochemical Stability," WASTECON 2007, Reno, Nevada, Oct. 16, 2007.
  49. D. Reinhart, "Developing a Body of Knowledge for Environmental Engineering," AEEESP Education and Research Conference, Blacksburg, VA, July 31, 2007.
  50. Reinhart, D. R. "Design and Operation of Bioreactor Landfills," Landfill Design Course, University of Cantabria, Spain, June 28, 2007.
  51. Reinhart, D.R. "Bioreactor Landfills - Lesson Learned," invited speaker SWANA Illinois Annual Meeting, June 12, 2007.
  52. Reinhart, D. R. and Ravi Chander "Urban Infilling Impact on Landfills," EWRI Water Congress, Tampa, FL, May 16, 2007.
  53. Reinhart, D.R. "Bioreactor Landfills," invited speaker Jordan University of Science and Technology, April 27, 2007.
  54. Reinhart, D. R. and N. B. Berge "Nitrogen Management in Bioreactor Landfills," Waste Tech Landfill Technology Conference 2007, Miami Beach, FL, March 12, 2007.
  55. Reinhart, D.R., "AAEE Environmental Engineering Body of Knowledge Working Group," NSF Workshop: Frontiers in Environmental Engineering Education, ASU, Phoenix, AZ, Jan 8-10, 2007.
  56. Reinhart, D.R., N. Berge, E. Batarseh, "Sustainable Bioreactor Landfilling," An International Perspective on Environmental and Water Resources, December 18-20, 2006, New Delhi, India.
  57. Reinhart, D.R. "Fundamentals of Bioreactor Landfilling" invited speaker to the NCSU Civil, Construction, and Environmental Engineering Department, October 9, 2006
  58. Reinhart, D.R. "Bioreactor Landfill Design and Operations Lessons Learned" SWANA E-Session, October 11, 2006
  59. Reinhart, D.R. "Bioreactor Landfill Demonstrations" the NY SWANA Conference, Albany, NY November 7, 2006.

60. Reinhart, D.R. "Sustainable Landfilling" at the Green Industry Conference in Bahrain, November 19-22, 2006.
61. Reinhart, D.R., N. Berge, E. Batarseh, "Economic Comparison of Anaerobic and Aerobic Bioreactor Landfills," FL SWANA Summer Conference, Naples, July 23-26, 2006.
62. Reinhart, D. "Bioreactor Design and Operation," FCSHWM Bioreactor Workshop, May 25-26, 2006.
63. Reinhart, D. "The Status of Aerobic Landfills in the US," NCSWANA Spring meeting, Asheville, NC, May 16-18, 2006.
64. Reinhart, D. "Economic Comparison of Anaerobic and Aerobic Bioreactor Landfills," FL SWANA Landfill Symposium, Nashville, TN, June 5-7, 2006.
65. Reinhart, D. "An Update On The Florida Bioreactor Landfill Demonstration Projects Underway At Three Landfills In Florida," at the 4<sup>th</sup> ICLRS, Gallivare, Sweden, June 14-16, 2006
66. Reinhart, D. "Introduction to Bioreactor Landfills," EREF Workshop, held at Republic Headquarters, Indianapolis, Indiana, August 2, 2005.
67. Reinhart, D. R., and S. Eun "Control of Odors from Construction and Demolition Landfills," SWANA LF Symposium, Boulder, Colorado, June 6-9, 2005.
68. Reinhart, D. R. "Design and Operation of Bioreactor Landfills" Landfill Design Course, University of Cantabria, Spain, July 13-14, 2005.
69. Berge, N. D. and Reinhart, D.R. (2005) "Management of Nitrogen at Bioreactor Landfills" presented at the EREF Workshop, held at Indianapolis, Indiana, on August 2, 2005.
70. Gawande, N.G., D.R. Reinhart, and A.L.G. Cortázar, "Landfill MSW Hydraulic Conductivity Estimation Using In Situ Moisture Sensors," presented at the Tenth International Waste Management and Landfill Symposium, Sardinia, Italy, October 3-6, 2005.
71. Berge, N.B. and Reinhart, D.R. (2005) "In-Situ Nitrification of Leachate in Bioreactor Landfills," presented at the Tenth International Waste Management and Landfill Symposium, Sardinia, Italy, October 3-6, 2005.
72. Reinhart, D. R. "Bioreactor Landfills: Issues and Implementation," (invited speaker) Emerging Technologies in Solid Waste Management Conference 2005, Lansing, MI, March 31, 2005.
73. Berge, N. D. and Reinhart, D.R. "In-Situ Nitrogen Removal in Bioreactor Landfills," presented at the Third Intercontinental Landfill Research Symposium, Sapporo, Japan, November 29 - December 2, 2004.
74. Reinhart, D.R., Luke Daly, Andrea Rios, and Virender Sharma "Ferrate - the Environmentally Friendly Emerging Treatment Chemical," Florida Remediation Conference, Nov. 10, 2004.
75. Reinhart, D.R. (2004) "Sustainable Landfilling in the US," presented at the Third Intercontinental Landfill Research Symposium, Sapporo, Japan, November 29 - December 2, 2004

76. Reinhart, D. R., "Bioreactor Landfill Fundamentals" ASCE West Coast Branch annual meeting, September 21, 2004.
77. Reinhart, D. R. and Ayman Faour "First-Order Kinetic Gas Generation Model Parameters For Wet Landfills" 9<sup>th</sup> Annual SWANA Landfill Symposium, Monterrey, CA, June 21-24, 2004.
78. Jain, P., Townsend, T., Reinhart, D. "Air Injection Potential of Vertical Wells in an Aerobic Bioreactor Landfill as Characterized by a Short-term Air Pump Test." Proceedings of the nineteenth international conference on solid waste technology and management, Philadelphia, PA pp. 994-1003, 2004 .
79. Reinhart, D. R. "Florida Bioreactor Demonstration Project," WasteTech Conference, Dallas, TX May 18-20, 2004.
80. Reinhart, D. R. "Fundamentals of Bioreactor Landfills," Invited speaker, Beijing University for Science and Technology, February 25-27, 2004.
81. Cochran, K., Townsend, T., Reinhart, D., Heck, H. "Examining C&D debris recycling market capacity in Florida." 14<sup>th</sup> Annual Waste Reduction, Recycling and Composting and 7<sup>th</sup> Annual Collection and Transfer Symposium, Solid Waste Association of North America, Orlando, FL, February 24-25, 2004.
82. Reinhart, D. R. "Fundamentals of Bioreactor Landfills," Invited speaker, Jordanian University of Science and Technology, December 15, 2003.
83. Reinhart, D. "Bioreactor Design and Operation," Invited Speaker, 54<sup>th</sup> Annual Kansas Environmental Conference, Lawrence, Kansas, Feb 5, 2003.
84. Reinhart, D. "Bioreactor Landfill, Point/Counterpoint," Invited Speaker, US Composting Council Annual Meeting, Las Vegas, NV, January 28-29, 2003.
85. Reinhart, D. "Bioreactor Design and Operation," Invited Speaker, University of Jyväskylä, Jyväskylä, Finland, March 20, 2003.
86. Reinhart, D. "Bioreactor Landfill Challenges, Invited Speaker, EPA Bioreactor Seminar, Washington DC, Feb. 27-28, 2003.
87. Reinhart, D.R. T. Townsend, P. McCreanor, "Instrumentation For In Situ Monitoring Of Municipal Solid Waste Landfill Processes," Ninth International Waste Management and Landfill Symposium, Sardinia, Italy, October 2003.
88. Berge, N B. and D. R. Reinhart, "In Situ Nitrification in Bioreactor Landfills," Presented at the Ninth International Waste Management and Landfill Symposium, Sardinia, Italy, October 2003.
89. Reinhart, D. "Florida Bioreactor Demonstration Project Update," ICLRS, Asheville, NC October 14-16, 2002.
90. Reinhart D. and K.Gajewski "Municipal Solid Waste Learning Tool," AEESP Research and Education Conference, University of Toronto, Canada, August 6-8, 2002.
91. Reinhart, D., P. McCreanor, T. Townsend "Florida Bioreactor Demonstration Project Update," SWANA Landfill Symposium, Louisville, KY, June 17-18, 2002.
92. Geiger, C. L., Christian A. Clausen and Debra R. Reinhart, Jacqueline Quinn, "Field Application of Ultrasound to Iron Containing PRBs," presented at the Battelle Remediation Conference, Monterrey, CA, May 22, 2002.

93. Geiger, C.L., Christian A. Clausen, Debra Reinhart, Kathleen Brooks, Christina Clausen, Christian Huntley and Laura Filipek, Tom Krug, Suzanne O'Hara and David Majors, Jacqueline Quinn, "Reductive Dehalogenation Of DNAPLs Using Emulsified Zero-Valent Iron presented at the Battelle Remediation Conference, Monterrey, CA, May 2002.
94. Reinhart, D. "Florida Bioreactor Demonstration Project - Instrumentation," presented at Waste Tech 2002, Feb 25-27, 2002, Coral Springs, FL.
95. Debra R. Reinhart, Cherie L. Geiger, Christian A. Clausen, Kathy Brooks, Dave Major, Jacqueline Quinn "The In Situ Treatment of DNAPL with Zero-Valent Iron Emulsions," 2001 Florida Remediation Conference, Nov. 14-15, 2001, Orlando, FL.
96. Reinhart, D. "Bioreactor Landfills," Univ. South Carolina Environmental Engineering Invited Lecture Series, Columbia, SC, Sept.28, 2001.
97. Reinhart, D. "Bioreactor Landfills," Invited Speaker, SWANA Applied Research Foundation, Jan. 16-17, 2002, West Palm Beach, FL.
98. Reinhart, D. "Bioreactor Landfills," Invited Speaker, ASTSWMO, State Solid Waste Managers Conference, July 23-25, 2001, Washington DC.
99. Reinhart, D. and Timothy Townsend, "Aerobic vs. Anaerobic Bioreactor Landfill Case Study - The New River Regional Landfill," SWANA's 6th Annual Landfill Symposia, San Diego, CA, June 18-20, 2001.
100. Reinhart, D. and Timothy Townsend, "Aerobic vs. Anaerobic Bioreactor Landfill Case Study - The New River Regional Landfill," Lulea Landfill Symposium, Dec. 12, 2000.
101. Reinhart, D. "Landfill Bioreactor Research Needs," "US EPA Bioreactor Workshop, Washington, DC, Sept. 6-7, 2000.
102. D. Reinhart, The Landfill Bioreactor Landfill: Research and Development Needs, Invited Speaker, Geo2000, Las Vegas, NV, Dec. 14-15, 2000.
103. Clausen, C. A., Cherie L. Geiger, Debra R. Reinhart, Nancy Ruiz, Kristi Farrell, Patrick Toy, Nancy Lau Chan, Mark Cannata, Stephen, Jacqueline Quinn, "Ultrasonic Regeneration Of Permeable Treatment Walls: Laboratory/Field Studies, Battelle Remediation Conference, Monterrey, CA, May, 2000.
104. Reinhart, D., T. Townsend, J. Bower, "Florida Landfill Bioreactor Demonstration Project," SWANA Landfill Symposium, Austin, TX, June 24, 2000.
105. Reinhart, D. "Status of Landfill Bioreactors," Rutgers University Environmental Engineering Invited Speakers Series, April 14, 2000.
106. Reinhart, D., T. Townsend, J. W. Bower, "Florida Bioreactor Landfill Demonstration Project," Waste Tech 2000, Orlando, FL, March 7, 2000.
107. Reinhart, D., M. Chopra, C. Clausen, and J. Quinn, "NASA PRB Installation Using Deep Soil Mixing," RTDF Permeable Reactive Barriers Action Team Meeting, Cocoa Beach, FL, Feb. 16-17, 2000.
108. Reinhart, D., "Solid Waste Research at UCF," Annual FDEP Solid Waste Meeting, Daytona Beach, Fl, October 29, 1999.
109. Reinhart, D., S. Lindbergh, P. McCreanor, J. Price, "Pathways of Mercury Release in Municipal Solid Waste Disposal: A Preliminary Data Report, proceedings of the

- Seventh International Waste management and landfill Symposium, Cagliari, Italy, October 4-8, 1999.
110. Reinhart, D. "Emerging Issues for Leachate management," ASCE-CSCE Environmental Engineering Conference, Norfolk, VA., July 25-27, 1999.
  111. Harris, J. M., D. Purschwitz, and D. R. Reinhart, "Leachate Management for The New Millenium," Proceedings of the 4<sup>th</sup> Annual SWANA Landfill Management Symposium, Denver, CO, June 28-30, 1999.
  112. Reinhart, D., "Bioreactor Landfill Design and Operating Challenges," Texas Natural Resource Conservation Commission's Environmental Trade Fair (invited speaker), Austin, Texas, May 4, 1999.
  113. Reinhart, D. and T. Townsend, "Optimization of Leachate Introduction in Anaerobic Bioreactor Landfills," Proceedings of the 22<sup>nd</sup> Annual Landfill Gas Symposium, Orlando, Florida, March 22-25, 1999.
  114. Reinhart, D., M. B. Chopra, S. Burwinkel, and J. Quinn, "Installation of a Field-Scale Permeable Reactive Wall Using Deep Soil Mixing," 4<sup>th</sup> Annual Florida Remediation Conference, Orlando, FL, Nov. 10-11, 1998.
  115. Reinhart, D., J W. Quinn, C. A. Clausen, M. B. Chopra, C. Geiger, N. Ruiz, S. Burwinkel, "Scale-Up Of Zero-Valent Iron Permeable Treatment Wall Design Parameters," Proceedings of the Water Environment Federation Conference, Orlando, FL, Oct. 5-8, 1998.
  116. Reinhart, D. and P. T. McCreanor, "Hydrodynamic Modeling of Waste of Leachate Recirculating Landfill," Third Swedish Landfill Research Symposia 1998, Lulea, Sweden, October 6-8, 1998.
  117. Chopra, M.B., S. Burwinkel, D. R. Reinhart, and J. Quinn, "Installation of a Field-Scale Permeable Reactive Wall Using Deep Soil Mixing," Proceedings of the 4<sup>th</sup> International Symposium on Environmental Geotechnology and Global Sustainable Development, Boston, MA, August 9-13, 1998.
  118. Reinhart, D. "Are Florida Landfill Liner Systems Clogging and How Would We Know?" SWANA Florida Sunshine Chapter Summer Seminar, Clearwater, FL, July 15-17, 1998.
  119. McCreanor P. and D. R. Reinhart, "Simulation of Unsaturated Flow in Leachate Recirculating Landfills," Proceedings of the IAWQ Biennial Conference, Vancouver, British Columbia, Canada, June, 1998.
  120. Ruiz, N., D. Reinhart, C. Clausen, C. Geiger, and J. Quinn, "Enhanced Degradation Of Chlorinated Solvents In Groundwater Using Sonicated Zero-Valent Iron - Batch Studies," Proceedings of the First International Conference on Remediation of Chlorinated and Recalcitrant Compound, Monterey California, May 18-21, 1998.
  121. Reinhart, D. and J. Selter, "Industry/Engineering Partnerships with an Emerging Research University," 7<sup>th</sup> International Conference on Management of Technology, Orlando, Florida, February 16-20, 1998.
  122. Reinhart, D., C. Clausen, M. Chopra, C. Geiger, J. W. Quinn, N. Ruiz, and S. Burwinkel, "Application of an Enhanced Zero-Valent Iron Permeable Treatment Wall," Florida Remediation Conference, Orlando, Florida, November 12-13, 1997.

123. Reinhart, D. "Full-Scale Bioreactor Landfill Operation," ISWA '97 World Conference, Wellington, New Zealand, September 29 - October 3, 1997.
124. McCreanor P. T. and D. R. Reinhart, "Design and Operational Guidance for Landfill Leachate Recirculation Systems," Proceedings of the 2nd Annual SWANA Landfill Symposium, Sacramento, California, August 4-6, 1997.
125. Chopra, M. B., D. R. Reinhart, R. Touati, J. W. Quinn, "Design of a Zero-Valent Metal Permeable Reactive Wall Using In-situ Mixing," Proceedings of the 1997 ASCE Environmental Engineering Conference, Edmonton, Canada, July 22-26, 1997.
126. Reinhart, D., J. W. Quinn, C.A. Clausen, C. Geiger, N. Ruiz, G. Afiouni, "Enhanced Zero-Valent Permeable Wall Treatment of Contaminated Groundwater," 1997 International Containment Technology Conference and Exhibition, Feb. 9-12, St. Petersburg, FL.
127. Reinhart, D., C. Clausen, C. Geiger, N. Ruiz, G. Afiouni, "Enhancement of In-Situ Zero-Valent Metal Treatment of Contaminated Groundwater," Proceedings of the ASCE NAPL Assessment and Remediation Conference, Washington, D.C., Nov. 11, 1996.
128. D. R. Reinhart, P. McCauley Bell, Brigid Ryan, and Hala Sfeir, "An Evaluation of Municipal Solid Waste Composition Studies," Proceedings of the Solid Waste Association of North America, Wastecon 1996, Portland, Oregon, September, 23-26, 1996.
129. Reinhart, D., Philip T. McCreanor, and Quaid Noor, "Hydrodynamics of Leachate in Recirculating Landfill," Proceedings of SWANA's First Annual Landfill Symposium, Wilmington, Delaware, November 4-6, 1996.
130. Reinhart, D. and Caroline Grosh, "Analysis of Florida Landfill Leachate Quality Data," Annual Research Symposium, Florida Center for Solid and Hazardous Waste Management, Tampa, Florida, October 3, 1996.
131. Reinhart, D.R., "Why Wet Landfills are More Effective," Proceedings of Landfill Closures - Environmental Protection and Land Recovery, ASCE National Convention, San Diego, CA, October 23-24, 1995.
132. Reinhart, D.R., J. Quinn, P.T. McCreanor, "Hazardous Waste Management in the United States," Pilings Seminar, Cardiff, Wales, August 21, 1995.
133. Reinhart, D.R. and A. B. Al-Yousfi, "The Impact of Full-Scale Leachate Recirculation on Leachate and Gas Characteristics," Proceedings of ASCE 1995 National Conference on Environmental Engineering, Pittsburgh, Pennsylvania, July 26, 1995.
134. Wahid, P. D.R. Reinhart, and D. Adams, "Gender Diversity Issues in Engineering at the University of Central Florida," American Association of University Women Symposium, June 22-24, 1995.
135. Reinhart, D. R., P. Wahid, and D. Adams, "Gender Diversity Issues at the University of Central Florida," Women in Engineering Programs Advocates Network Annual Conference, Washington, D.C., June 4-6, 1995.
136. Reinhart, D. R., "Waste Composition Study Standardization", 4th Annual RFT Conference, Cape Canaveral, Florida, May 19, 1995.

137. Reinhart, D.R., "Wet v. Dry Landfilling, Does it Really Make a Difference," Options for Texas '95 Municipal Solid Waste Management Conference, Austin, Texas, January 25-27, 1995.
138. Reinhart, D.R., "Landfill Bioreactor Full-Scale Case Studies," 1995 US/Canadian International Solid Waste Federation, Solid Waste Management Conference, Washington, DC, January 19, 1995.
139. Reinhart, D.R., Scott Trainor, "Co-Composting of Biosolids and Yard Waste," 67th Annual Conference & Exposition of the Water Environment Federation, Chicago, IL, October 16-19, 1994.
140. Reinhart, D.R., "Leachate and Gas Quality and Quantity," Landfill Design: Leachate and Gas Management Course, TREEO Center, Orlando, FL, May, 1992, 1993, and 1994.
141. Reinhart, D.R., "Characterization of Municipal Solid Waste," Landfill Design: Planning and Permitting Course, TREEO Center, Orlando, FL, Jan 1992, Feb. 1993, and Feb. 1994.
142. Reinhart, D.R., "Wet v. Dry Landfilling, Is There Really a Difference," Proceedings of WasteTech '94, Charleston, SC, January 13-14, 1994.
143. Reinhart, D.R., "Future Concepts in Landfill Operation: Active Landfill Management-Optimizing Landfill Disposal Operations," Proceedings of the Modern Double Lined Landfill Management Seminar, March 2-4, 1993 and January 4-5, 1994.
144. Reinhart, D.R., Dietz, J.D., Tunnell, L., Christodoulou, A., "Landfill Leachate Treatment at a Biological Nutrient Removal Wastewater Treatment Facility," Proceedings of the 66th Annual Conference & Exposition of the Water Environment Federation, Anaheim, CA, October 3-7, 1993.
145. Reinhart, D.R., and Carson, D. "Full-Scale Application of Landfill Bioreactor Technology," Proceedings of the 31st Annual Solid Waste Exposition of the SWANA, San Jose, CA, August 2-5, 1993.
146. Reinhart, D.R., "Municipal Solid Waste Landfill Bioenhanced Operation," Proceedings of the ASTSWMO 1993 National Solid Waste Forum, Orlando, FL, July 19-21, 1993.
147. Reinhart, D.R. and Carson, D., "Overview of Field-Scale Applications of Leachate Recirculation at Municipal Landfills," SWANA Pennsylvania Keystone Chapter Session, Williamsport, PA, June 3, 1993.
148. Reinhart, D.R., Cooper, C.D. and Seligman, D.R.H, "Landfill Gas Emission Monitoring Using a Modified Flux Chamber Approach," Proceedings of the 1993 Annual Meeting of the Air & Waste Management Association, Denver, CO, June 13-17, 1993.
149. Reinhart, D.R. and Cooper, C.D., "Landfill Gas Emissions," Proceedings of the First Annual Solid Waste Research Symposium Sponsored by the FCSHWM, Orlando, FL, May 25, 1993.
150. Reinhart, D.R., "Full-Scale Demonstration of Leachate Recirculation," International Energy Agency, Landfill Gas Expert Working Group, Invited Speaker, Research Triangle Park, NC, October 27-29, 1992.



151. Reinhart, D.R., *et al*, "Co-composting of Municipal Wastewater Treatment Plant Sludges with Yard Wastes," Proceedings of the Water Environment Federation, 65th Annual Conference & Exposition, New Orleans, LA, September, 1992.
152. Reinhart, D.R., "Solid Waste Management in the 90s," Society of Women Engineers 1992 National Convention, Orlando, Florida, June 22-28, 1992.
153. Reinhart, D.R., "Leachate Quality," Environmental Resources Conference, Orlando, FL, May 20-21, 199
154. Reinhart, D.R. *et al*, "Yard Waste Composting Demonstration Program in Central Florida," Proceedings of the 7th International Conference on Solid Waste Management and Secondary Materials, Philadelphia, PA, December 10-13, 1991.
155. Reinhart, D.R., Cooper, C.D., Walker, B.L., "MSW Landfill Gas Emissions Monitoring," Proceedings of SWANA 3rd Annual Southeastern Regional Meeting, Orlando, FL, November 5-7, 1991.
156. Reinhart, D.R. *et al*., "Municipal Solid Waste Landfill Gas Emissions Monitoring," Proceedings of SWANA 3rd Annual Southeastern Regional Meeting, Orlando, FL, Nov. 5-7, 1991.
157. Reinhart, D.R., *et al*, "Yard Waste Compost Demonstration Project," Proceedings of SWANA 3rd annual Southeastern Regional Meeting, Orlando, FL, November 5-7, 1991.
158. Reinhart, D.R., "Source of Hazardous Pollutants Emitted from MSW Landfills," WPCF 64th Annual Conference, Toronto, Canada, October 7-10, 1991.
159. Reinhart, D.R., "Landfill Gas Emissions," Florida Air and Waste Management Annual Meeting, Clearwater Beach, FL, September 16-18, 1991.
160. Reinhart, D.R., "The Fate of Organic Hazardous Waste in Municipal Solid Waste Landfills," Florida Air and Waste Management Association Annual Meeting, Daytona Beach, FL, September 23-26, 1990.
161. Reinhart, D.R., ed., Conference Proceedings "Municipal Solid Waste Landfills: Problems and Issues," Orlando, FL, Sponsored by FCSHWM, July 25-26, 1990.
162. Reinhart, D.R., *et al*. "The Fate of Selected Organic Pollutants Codisposed with Municipal Refuse," Water Pollution Control Federation 62nd Annual Conference, San Francisco, CA, October 16-19, 1989.

## CHAPTERS

1. Dr. Reinhart, "Evolution of Landfills: From Open Dumps to Hybrid Landfills, Waste Management and Landfill Symposium Anniversary Proceedings, 2017.
2. Berge, N. D. , D. R. Reinhart, J. Dietz, T. Townsend, "In-situ Ammonia Removal in Bioreactor Landfill Leachate," in Landfill Aeration, Ed. By R. Stegmann and M. Ritzkowski, CISA Publisher, Padova, Italy, iwwg monograph series, ISBN 978-88-6265-002-1.
3. Berge, N. D., D. R. Reinhart, M. Hudgins, "The Status of Aerobic Landfills in the United States," in Landfill Aeration, Ed. By R. Stegmann and M. Ritzkowski, CISA Publisher, Padova, Italy, IWWG monograph series, ISBN 978-88-6265-002-1.

4. Pohland, F. G., A.B. AL-Yousfi, and D. R. Reinhart, "Anaerobic Digestion of Organic Solid Waste in Bioreactor Landfills," in Biomethanization of the Organic Fraction of Municipal Solid Wastes, Ed by J. Mata-Alvarez, London England: IWA.
5. Berge, N., Batarseh, E., and Reinhart, D., (2010) "Landfilling: Operation and Monitoring," in Solid Waste Technology And Management, ed. by T. Christensen and M. Barlaz.
6. Reinhart, D.R., et al., "The Sorptive Behavior of Selected Organic Pollutants Codisposed in a Municipal Landfill," ACS Symposium 442 (1989) Emerging Technologies for Hazardous Waste Treatment.
7. Reinhart, D.R. and Richards, J.T., "Process Control," in Anaerobic Sludge Digestion-Manual of Practice No. 16, WPCF Technical Practice Committee (1987).

## PATENTS

1. Cooper, C. D., Reinhart, D. R., and Seligman, D. R. H., The Flux Tube, Method and Apparatus for Measuring Gas Emission Rate from Soil, US Patent No. 5,355,739.
2. Quinn, J. W., Ruiz, N. E., Reinhart, D. R., Geiger, C. L., Clausen, C. A., Enhancement of Zero-Valent Metal Treatment of Contaminated Groundwater by the Use of Ultrasound, US Patent No. 6,013,232.
3. Quinn, J. W., Reinhart, D. R., Clausen, C. A., Chopra, M. B. Reactive Material Placement for Groundwater Treatment, US Patent No. 6,207,114 B1 (March 27, 2001).
4. Quinn, J. W., Reinhart, D. R., Geiger, C. L., Clausen, C. A., Zero-Valent Metal Emulsion for Reductive Dehalogenation of DNAPLS, Patent No. US 6,664,298 B1 (Dec. 16, 2003).
5. Clausen, C. A., Quinn, J. W., Geiger, C. L., Reinhart, D., Fillipek, L. B., Coon, C., Devor, R. Contaminant Removal from Natural Resources, Patent No. US 7,008,964 B2 (March 7, 2006).

## SERVICE

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### HONORS AND AWARDS

- ◆ 2005 Legends and Legacies Leadership Award at the National Conference on Leadership Diversity
- ◆ 2005 Woman of Distinction Technology Award, Citrus Council Girl Scouts
- ◆ 2004 Distinguished Service Award, Lake Highland Preparatory School
- ◆ 2000 AEESP Distinguished Service Award
- ◆ 1998 Service Award Florida Water Environment Association
- ◆ 1998 Service Award Florida Air and Waste Management Association
- ◆ 2002 ASCE Environmental Engineering Journal Editor's Award
- ◆ 2003 Waste Management Journal Referee Award
- ◆ Distinguished Service Award - Lake Highland Preparatory School

### MEMBER

- ◆ American Academy of Environmental Engineers and Scientists (Board Certified), 1994-present
- ◆ American Society of Civil Engineers (Fellow), 1993 - present
- ◆ Association of Environmental Engineering and Science Professors (Fellow), 1990-present
- ◆ American Association for the Advancement of Science (Fellow), 2008 - present
- ◆ International Waste Working Group, 2012 - present

### BOARDS AND COMMITTEES

- ◆ Oak Ridge Associated Universities, Board of Trustees, Council Vice Chair, 2017 - present
- ◆ EWRI -ASCE 2016 Congress co-Technical Chair
- ◆ Environmental Education and Research Foundation, Board of Directors, 2003-1017; Research Council, Chair 2019-2020
- ◆ ICLRS Technical Chair, 2014-present
- ◆ International Waste Working Group, Managing Board, 2012- present, President 2015-2017.
- ◆ US EPA, Board of Science Commission, Homeland Security Subcommittee, 2014-present
- ◆ ABET, Commissioner for Engineering Accreditation Commission, 2012 - present; Environmental Engineering Program Evaluator, 2002 - present
- ◆ Associate Editor, Waste Management, 2010-
- ◆ Board of Trustees, American Academy of Environmental Engineers, 1992 - 2002, 2003 -2010, President, 2009

- ◆ Chair, Environmental Engineering Body of Knowledge Task Force, 2005- 2009
- ◆ Board Member, Environmental Research and Education Foundation (EREF), 2002-present (on leave 9/11-9/13)
- ◆ EREF Research Council, Chair 2007-2008
- ◆ Environmental Council Executive Committee, ASCE's Environmental Water Resources Institute, 2005-2007
- ◆ Participated in ASCE's Government Relations Program – 2004 and 2006
- ◆ ASCE Environment and Energy Policy Committee, 2003-2006
- ◆ ASCE Report Card for America's Infrastructure committee 2004 - 2015
- ◆ AAEE Recertification Committee, 2003-2013
- ◆ AAEE Executive Committee, 2005 - 2013
- ◆ Technical Advisory Board, California Commission of Energy, 2003-2005
- ◆ Technical Advisory Board, EREF Landfill Post-Closure Project, 2002-2005
- ◆ Technical Advisory Board, Buncombe County XL Project, 2002-2011
- ◆ ASCE External Affairs Committee, 2000-2005 (Chair, 2001-2005)
- ◆ ASCE Solid Waste Committee, Vice-Chair, 2003-2010
- ◆ External Advisory Board, Environmental Systems Commercial Space Technology Center (ES CSTC) 2000-2003
- ◆ Editorial Board, Waste Management and Research, 1999-2002
- ◆ Editorial Board, Waste Management, 2002-present
- ◆ Board of Directors, Association of Environmental Engineering and Science Professors, 1997-2000
- ◆ AAEE Diversity Task Force, 2003-2005
- ◆ EWRI 2005 Water Congress, Anchorage Alaska, Track Chair
- ◆ IAWQ Landfill Management Specialty Group, 1996 - 2000
- ◆ Editor, IAWQ Landfill Management Specialty Group Newsletter, 1996 - 2000
- ◆ Editorial Board, ASCE HTRW Practice Periodical, 1996 - 1999
- ◆ Board of Directors, Florida Air and Waste Management Association, 1993-1996
- ◆ Secretary/Treasurer, Florida Air and Waste Management Association, 1996-1997
- ◆ Associate Director, Florida Center for Solid and Hazardous Waste Management, 1990-1995
- ◆ Member - Florida Department of Environmental Protection, Training Council, 1994 -2000
- ◆ Member - Orlando Science Center, Scientific Advisory Committee, 1994-2000
- ◆ FWEA Orlando Regional Activities Steering Committee, 1993
- ◆ FWR 1993 Conference Local Arrangements Committee
- ◆ Greater Oviedo Community Planning Group, 1992-1993
- ◆ WEF Hazardous Waste Committee, 1992-2000
- ◆ WEF Student Activities Committee, 1992-2000
- ◆ AEEP Distinguished Lecture Committee, 1990-1995
- ◆ Member, Advisory Committee for Florida Landfill Design Series, 1991-1996

- ◆ WPCF Program Committee, 1985-1990
- ◆ WPCF Technical Practice Committee, 1982-1985
- ◆ WPCF Industrial Waste Committee, 1985-1989

## SERVICE ACTIVITIES

- ◆ Whittaker School of Engineering Advisory Board, Florida Gulf Coast University, 2006-2010.
- ◆ Coordinator ASCE EWRI Webinar, Disaster Debris Management (February 15 and December 20, 2007)
- ◆ Participated in Orlando Science Center's Exploring Careers for Women in Science and Engineering, 2003 - 2005
- ◆ NSF Panel Reviewer
- ◆ Florida Science Fair Judge, April 2005
- ◆ ABET Program Evaluator - 2002-present
- ◆ EWRI 2005 Water Congress, Anchorage Alaska, Track Chair
- ◆ Judge, 39<sup>th</sup> National Junior Science and Humanities Symposium, April 2001
- ◆ Judge, Nelson Ying Science Fair, 2000 - 2011
- ◆ EPA Peer Review Panel, Life Cycle Analysis, November 8-10, 1999
- ◆ Conference Chair, Bioreactor Landfill Design and Operation, March 23- 24, 1995, Wilmington, DE.
- ◆ Session Chair, Water Environment Federation Specialty Conference, "Innovative Solutions for Contaminated Site Management, March 6-9, 1994, Miami, FL.
- ◆ Student Chapter Advisor, Water Environment Association and Air and Waste Management Association, 1993-2009
- ◆ Student Chapter Advisor, Florida Engineering Society, 1989-1994
- ◆ NSF Panel for Selection of Faculty Awards for Women, 1991
- ◆ Conference Co-ordination Committee for Expanding Your Horizons (Conference for 8<sup>th</sup>-11<sup>th</sup> grade girls), 1991-2003
- ◆ Conference Coordinator for Municipal Solid Waste Landfills: Problems and Issues, Orlando, FL, July 25-26, 1990
- ◆ Oviedo High School, Awards Ceremony, Society of Women Engineers Presentation, June, 1993
- ◆ MS, PhD WEF paper competition judge, 1992-2000
- ◆ Presentation - Trinity Preparatory School, March, 1993
- ◆ Science Fair Judge (local and state), 1991-1992
- ◆ Brevard County Engineering Career Fair, October 1992
- ◆ Panel Discussion, SECME Career Guidance Open House, June, 1992
- ◆ Presentation, Women and Girls in the Technological Future Workshop, 6/92
- ◆ Presentation, Expanding Your Horizons Annual Conference, 1990-1995
- ◆ Presentation, Oviedo High School, Engineering, March 1990

- ◆ Presentation, Hebrew Day School, Recycling Solid Waste, February 1990
- ◆ Presentation, Stenstrom Elem. School Recycling Solid Waste, February 1990

#### Reviewer

- ◆ *Sustainability: Science, Practice, & Policy*
- ◆ *Chemosphere*
- ◆ *ASCE Journal of Environmental Engineering*
- ◆ 10<sup>th</sup> International Waste Management and Landfill Symposium, Sardinia, Italy
- ◆ SWANA Landfill Symposia and WasteCon
- ◆ Intercontinental Landfill Research Symposia
- ◆ *Waste Management*
- ◆ *Waste Management Research*
- ◆ *Biotechnology and Bioengineering Journal*
- ◆ *Journal of Hazardous Substances*
- ◆ *ASCE Journal of Geotechnology and Geoenvironment*
- ◆ *Geotechnology Testing Journal*
- ◆ *Journal of Environmental Management*
- ◆ *Journal of Applied and Environmental Microbiology*
- ◆ *ASM Journal*
- ◆ *JZUS (China)*
- ◆ *Environmental Science and Technology*
- ◆ U.S. Environmental Protection Agency
- ◆ U.S. Department of Energy
- ◆ *International Journal of Environment and Pollution*
- ◆ NSF Panel Reviewer,
- ◆ Hinkley Center for Solid and Hazardous Waste Management

#### University Related Activities

- ◆ University Committees
  - ◆ Liberal Studies Program Review Committee
  - ◆ Guest lecture in Environmental Studies Survey Course
  - ◆ Institutional Review Board
  - ◆ Research Week Committee
  - ◆ International Services Center Task Force
  - ◆ Women's Studies Director search committee
  - ◆ Art-In-State Committee
  - ◆ Research Strategic Planning Focus Group
  - ◆ Interdisciplinary Council
  - ◆ OSR Technology Transfer Director Search Committee, Chair
  - ◆ Chair, Commission on Status of Women, 1998-2001

- ◆ CFBTDC Incubator Selection Board
- ◆ Women's Studies Community Advisory Board
- ◆ Students and Technology Achieve Rewards Advisory Board (Chair)
- ◆ Advisory Board Faculty Center for Teaching and Learning
- ◆ Advisory Board Continuing Education Division
- ◆ International Affairs Committee
- ◆ Search Committee, Associate Director, Continuing Education
- ◆ Search Committee, STAC Director
- ◆ Internet Science and Technology Fair Advisory Board
- ◆ Search Committee, Assistant Vice President, Continuing Education
  
- ◆ University Master Planning Committee
- ◆ University Strategic Planning Task Force
  
- ◆ College Committees
  - ◆ IEMS Chair Search Committee, Chair, 2007
  - ◆ ECE Chair Search Committee (Chair), 2004
  - ◆ Human Resources Search Committee, 2005
  - ◆ CECS Administrative Coordinator Search Committee (Chair), 2004
  - ◆ CECS Development Officer Search Committee, 2001
  - ◆ MMAE Chair Search Committee, Chair, 2002
  - ◆ IEMS Chair Search Committee, Chair, 2001
  - ◆ Research Committee (Chair), 1996-2007
  - ◆ International Affairs Committee (Chair), 1996-2007
  - ◆ Engineering III Building Committee, 2002-2007
  - ◆ Engineering Building Committee (Chair), 1996-2001
  - ◆ Dean's Search Committee, 1993-1994
  - ◆ Minority Faculty Advisory Committee, 1993-1994
  - ◆ United Way Committee, 1989
  - ◆ Search Committee, 1991-1992; 1993-1994, 1995-1996
  
- ◆ Department
  - ◆ Faculty advisor to Water Environment Association and the Air and Waste Management Association, 1991-2012
  - ◆ WEA Design Team Advisor (state and national champions in 2003, state champions 1999, 2001, 2002).
  - ◆ Civil and Environmental Engineering Department's Undergraduate Curriculum Committee, 2000-2010
  - ◆ ABET Assessment Committee, 2005-2010