Cherie L. Yestrebsky, Ph.D.

Interim Chair and Professor

Department of Chemistry

University of Central Florida

Orlando, FL 32816-2366

[Cherie.Yestrebsky@ucf.edu](mailto:Cherie.Yestrebsky@ucf.edu)

Ph: 407-823-2135

Table of Contents

[Education 3](#_Toc459014376)

[Employment History 3](#_Toc459014377)

[Administrative Experience 3](#_Toc459014378)

[Research and Funding 4](#_Toc459014380)

[Honors and Awards 8](#_Toc459014384)

[Teaching 10](#_Toc459014385)

[Listing of Doctoral Students Graduated and Postdoctoral Sponsor 11](#_Toc459014386)

[Professional Society Service 11](#_Toc459014387)

[Publications 14](#_Toc459014388)

[Books (Editor) 14](#_Toc459014389)

[Journal Publications 14](#_Toc459014390)

[Book Chapters 16](#_Toc459014392)

[Published Full-Paper Proceedings 17](#_Toc459014393)

[Other Pertinent Publications 21](#_Toc459014394)

[Patents 22](#_Toc459014395)

[Presentations 24](#_Toc459014396)

[Invited Speaker 24](#_Toc459014398)

[Research and Conference Presentations 25](#_Toc459014399)

# Education

* **Doctor of Philosophy** (Inorganic and Environmental Chemistry): August 1994, University of South Florida, Tampa FL., Research Advisor: Dr. Dean F. Martin.
* **Bachelor of Science in Chemistry:** *Summa cum laude*, December 1990, University of Central Florida, Orlando, FL

# Employment History

* **Interim Chair of Chemistry:** University of Central Florida (November 2014-present)
* **Professor:** University of Central Florida (August 2010-present)
* **Associate Chair of Chemistry:** University of Central Florida (May 2005-2008)
* **Undergraduate Coordinator of Chemistry:** University of Central Florida (May 2005-2008)
* **Associate Professor**: University of Central Florida (August 2002-2010)
* **Assistant Professor**: University of Central Florida (1996-August 2002)
* **National Science Foundation Postdoctoral Research Fellowship:** Department of Civil and Environmental Engineering, University of Central Florida (1994-1996)

Research Director: Debra R. Reinhart, Ph.D., P.E., Professor and Associate Vice President of Research, UCF

# Administrative Experience

Previous to serving as Interim Chair of the Chemistry Department at University of Central Florida, my administrative experience comes from three major efforts: serving as Associate Chair and Undergraduate Coordinator of the Chemistry Department for three years, serving as President of the Florida Academy of Sciences for two years, and leading a successfully funded research program for over 20 years.

Since November 1, 2014, I have served as Interim Chairperson of the Department and it has been an exciting and informative period of time. During this period, I have led the transition of the administration of the department as well as managing the departure/replacement search of one of the primary staff members of the department. I have overseen the recruitment and hiring efforts for three new faculty and secured permission to grant American Chemical Society certification for our Forensic Science B.S. degree program, I have produced the first draft of a Policies and Procedures document for the department (first ever for our department), and am serving as the lead author on a proposal for a new cluster hire initiative for a geoscience cluster (geochemistry position for Chemistry Department). Of course during this time period I have also managed the day to day administration of the department including budget, evaluations and supervision of all department staff and interviewing and hiring of a new Coordinator of Administrative Services.

My prior administrative experience includes serving as Associate Chair and Undergraduate Coordinator of the Department from 2005-2008 during a period of time when the percent increase in the department’s student credit hours were in the double digits every year. I was honored to serve as President of the Florida Academy of Sciences (FAS) from 2002-2004 during which time the Academy increased membership and attendance at FAS annual meetings with the some of the highest numbers of presentations at the annual meetings in the history of the FAS.

# Research and Funding

I have been involved in research projects ranging from air pollution mitigation to groundwater remediation. Most of these projects have involved research to develop new materials and methods for reducing pollution or environmentally safe materials and technologies development for degrading pollutants in situ. These projects span the basic research to application process with funding for seed projects through to field-scale demonstrations of the scientific technologies developed in my laboratories.

Another area of interest for my research is Chemistry Education at the college level. I’ve worked as co-PI on funded research in this area and have carried out unfunded projects with this focus. I am co-author on multiple journal articles and book chapters relating to research.

Research funding for all projects totals over $5 million. My work has earned the UCF Research Incentive Award and the Scholarship of Teaching and Learning Award as well as several national and international awards recognizing the importance and success of my work.

|  |  |  |
| --- | --- | --- |
| **Funded Research** | | |
| Title: | Balance Account for Dr. Cherie Yestrebsky | |
| Role: | PI | Mar 16, 2015 — Dec 31, 2020 |
| Amount: | $35,888.17 |  |
| Title: | RF - SATOP funds | |
| Role: | CoPI | Feb 19, 2007 — Apr 15, 2016 |
| Amount: | $28,407.00 |  |
| Funding Agency: | | Space Alliance Technology Outreach Program |
| Title: | I4: A Study of the Degradation of Hydrazine and Monomethylhydrazine Using Alpha-Ketoglutaric Acid (AKGA) to Determine By-Products, Interference with Citric Acid and Toxicity | |
| Role: | PI | Oct 26, 2011 — Dec 31, 2014 |
| Amount: | $220,219.00 |  |
| Funding Agency: | |  |
| Title: | Chemical Effects of Multi-Component Systems on Soft-Goods | |
| Role: | PI | Apr 9, 2013 — Nov 30, 2013 |
| Amount: | $15,000.00 |  |
|  | $910.25 |  |
| Funding Agency: | | QinetiQ North America |
| Title: | A Study of the Degradation of Hydrazine and Monomethylhydrazine Using Alpha-Ketoglutaric Acid (AKGA) to Determine By-Products, Interference with Citric Acid and Toxicity | |
| Role: | PI | Oct 26, 2011 — Dec 31, 2014 |
| Amount: | $318,682.00 |  |
| Funding Agency: | | URS Greiner Woodward Clyde |
| Title: | Green solvent replacement for aerospace industry component cleaning | |
| Role: | PI | Sep 30, 2011 — Oct 31, 2012 |
| Amount: | $35,000.00 |  |
| Funding Agency: | | NASA/KSC |
| Title: | Proposal for Postdoctoral Position for Dr. Robert W. DeVor | |
| Role: | PI | Aug 28, 2008 — Feb 22, 2009 |
| Amount: | $43,965.00 |  |
| Funding Agency: | | ASRC Aerospace Corporation |
| Title: | Collaborative Research: SCC Advance: Strengthening the Foundation of STEM Education for Seminole Community College | |
| Role: | CoPI | Jan 1, 2009 — Dec 31, 2011 |
| Amount: | $50,000.00 |  |
|  | $13,820.00 |  |
| Funding Agency: | | National Science Foundation (NSF) |
| Title: | I-4 Match: Application of a Bimetallic Treatment System (BTS) for BCB Removal from Older Structures on DOD Facilities | |
| Role: | PI | May 14, 2006 — Aug 31, 2009 |
| Amount: | $127,719.00 |  |
| Funding Agency: | |  |
| Title: | Application of Bimetallic Treatment System (BTS) for PCB Removal from Older Structures on DoD facilities | |
| Role: | PI | May 14, 2006 — Sep 30, 2009 |
| Amount: | $292,015.00 |  |
| Funding Agency: | | GeoSyntec |
| Title: | RF-Nanoscience Technology Development & Applications | |
| Role: | CoPI | Jun 29, 2005 — Aug 30, 2007 |
| Amount: | $45,899.00 |  |
|  | $129,101.00 |  |
| Funding Agency: | | Unconventional Concepts, Inc. |
| Title: | Application Appropriate Solvents for use in nano-and micro-particle emulsions for remediation of materials Contaminated with Chlorinated Compounds or Heavy Metals | |
| Role: | PI | Mar 31, 2005 — Jul 15, 2006 |
| Amount: | $17,500.00 |  |
| Funding Agency: | | ASRC Aerospace Corporation |
| Title: | UCF STEP Pathways to STEM: From Promise to Prominence | |
| Role: | CoPI | Oct 2, 2005 — Dec 31, 2012 |
| Amount: | $1,797,360.00 |  |
|  | $262,539.00 |  |
|  | $73,184.00 |  |
| Funding Agency: | | National Science Foundation (NSF) |
| Title: | In Situ Remediation of Contaminants Found in Sediments Using Transition Metal Emulsions | |
| Role: | PI | Aug 1, 2004 — Jul 31, 2005 |
| Amount: | $24,000.00 |  |
| Funding Agency: | | NASA/GSRP |
| Title: | The Synthesis of Nanoscale Size Aerosol Infrared Screening Materials | |
| Role: | CoPI | Jun 7, 2004 — Dec 31, 2005 |
| Amount: | $18,025.00 |  |
| Funding Agency: | | Engineering Technology Inc. |
| Title: | Track 1, GK-12: Greater Orlando GK-12 Partnership | |
| Role: | CoPI | Mar 15, 2005 — Jun 30, 2009 |
| Amount: | $1,470,731.00 |  |
|  | $85,280.00 |  |
| Funding Agency: | | National Science Foundation (NSF) |
| Title: | The Synthesis of Nanoscale Size Aerosol Infrared Screening Materials | |
| Role: | CoPI | Jul 1, 2004 — Jun 30, 2005 |
| Amount: | $7,627.00 |  |
|  | $18,025.00 |  |
| Title: | Heavy Metal Remediation Through the Use of Emulsified Zero-Valent Iron | |
| Role: | PI | Mar 12, 2004 — Dec 30, 2005 |
| Amount: | $30,000.00 |  |
| Funding Agency: | | NASA Kennedy Space Center |
| Title: | The Use of an Activted Zero-Valent Metal Emulsion to Remove and Degrade PCBs from Painted Surfaces | |
| Role: | PI | Mar 8, 2004 — Nov 30, 2005 |
| Amount: | $25,000.00 |  |
| Funding Agency: | | NASA Kennedy Space Center |
| Title: | Dechlorination of Polychlorinated Biphenyls in Soils and Sediments Using Fe/Pd Bimetallic Emulsions | |
| Role: | PI | Aug 1, 2003 — Aug 31, 2004 |
| Amount: | $24,000.00 |  |
| Funding Agency: | | National Aeronautics and Space Administration (NASA) |
| Title: | Rapid Extraction and Dechlorination of Polychlorinated Biphenyls in Paints by Pd/Fe Bimetallic Emulsions | |
| Role: | PI | Jul 8, 2003 — Apr 30, 2004 |
| Amount: | $17,500.00 |  |
| Funding Agency: | | NASA Kennedy Space Center |
| Title: | The Removal of Heavy Metals from Soils and Sediments by Iron Particle Emulsions | |
| Role: | PI | Jun 1, 2003 — May 1, 2004 |
| Amount: | $17,500.00 |  |
| Funding Agency: | | NASA Kennedy Space Center |
| Title: | Rapid Dechlorination of Polychlorinated Biphenyls in Sediments and Soils by Pd/Fe Bimetallic Emulsions-Phase II | |
| Role: | PI | Jun 1, 2003 — Jun 1, 2004 |
| Amount: | $17,500.00 |  |
| Funding Agency: | | NASA Kennedy Space Center |
| Title: | Production of Advanced Infrared Screening Materials | |
| Role: | CoPI | Jan 1, 2003 — Dec 31, 2003 |
| Amount: | $16,000.00 |  |
| Funding Agency: | | Engineering Technology Inc. |
| Title: | Production of Advanced Infrared Screening Materials | |
| Role: | CoPI | Jul 1, 2002 — Jun 30, 2003 |
| Amount: | $8,600.00 |  |
| Funding Agency: | |  |
| Title: | Field Demonstration of Ultrasound Enhancement of Permeable Treatment Walls - Phase II (Supplemental) | |
| Role: | CoPI | Sep 1, 2000 — Oct 31, 2002 |
| Amount: | $18,419.00 |  |
| Funding Agency: | | Lamar University |
| Title: | Reductive Emulsions for Remediation of Groundwater Contaminated with Halogenated Hydrocarbons | |
| Role: | PI | Apr 16, 2002 — Feb 16, 2003 |
| Amount: | $15,000.00 |  |
| Funding Agency: | | NASA Kennedy Space Center |
| Title: | Rapid Dechlorination of Polychlorinated Biphenyls in Soils by Pd/Fe Bimetallic Emulsions | |
| Role: | PI | Apr 16, 2002 — Feb 16, 2003 |
| Amount: | $15,000.00 |  |
| Funding Agency: | | NASA Kennedy Space Center |
| Title: | Ultrasound Enhancement of a Permeable Reactive Barrier Undergoing Accelerate Aging | |
| Role: | CoPI | May 1, 2001 — Dec 31, 2002 |
| Amount: | $50,000.00 |  |
| Funding Agency: | | NASA Kennedy Space Center |
| Title: | The Development of Environmentally Compatible Gaseous Infrared Screening and Filter Mixtures | |
| Role: | CoPI | May 9, 2000 — Oct 31, 2001 |
| Amount: | $25,000.00 |  |
| Funding Agency: | | Engineering Technology Inc. |
| Title: | Feasibility Study of A +100 Additive Removal Cartridge for Aircraft Defueling Operations | |
| Role: | CoPI | May 24, 2000 — Aug 31, 2001 |
| Amount: | $80,000.00 |  |
| Funding Agency: | | United Technologies Corporation, Pratt & Whitney Division |
| Title: | IH01: Development and Kinetic Study of a Reactive Iron Slurry | |
| Role: | PI | May 1, 2000 — Apr 30, 2001 |
| Amount: | $7,500.00 |  |
| Funding Agency: | |  |
| Title: | Field Demonstration of Ultrasound Enhancement of Permeable Treatment Walls-Phase II | |
| Role: | CoPI | Sep 1, 2000 — Oct 31, 2002 |
| Amount: | $43,071.00 |  |
|  | $11,439.00 |  |
| Funding Agency: | | Lamar University |
| Title: | In-Situ Reductive Dehalogenation of DNAPLES by the Use of Emulsified Zero-Valent Nanoscale Iron Particles | |
| Role: | PI | Jan 1, 2000 — Jul 1, 2003 |
| Amount: | $147,819.00 |  |
| Funding Agency: | | GeoSyntec |
| Title: | Field Demonstration of Ultrasound Enhancement of Permeable Treatment Walls | |
| Role: | CoPI | Sep 1, 1999 — Dec 31, 2000 |
| Amount: | $123,184.00 |  |
|  | $94,552.00 |  |
| Funding Agency: | | Lamar University |
| Title: | MATCH: A Mechanistic Study | |
| Role: | PI | Nov 15, 1996 — Oct 31, 1998 |
| Amount: | $58,000.00 |  |
| Funding Agency: | |  |
| Title: | A Mechanistic Study of the Interactions of Some Common Agricultural Chemical in the Environment | |
| Role: | PI | Nov 15, 1996 — Oct 31, 1998 |
| Amount: | $40,000.00 |  |
|  | $80,000.00 |  |
| Funding Agency: | | National Science Foundation (NSF) |
| Title: | Development of an Electronkinetic Technique for Remediation of Lead Contaminated Soils | |
| Role: | PI | Apr 17, 1997 — Aug 1, 2000 |
| Amount: | $225,000.00 |  |
| Funding Agency: | | National Aeronautics and Space Administration (NASA) |

# Honors and Awards

2011 Scholarship of Teaching and Learning (SoTL) Award presented by UCF for outstanding efforts in research in the teaching enterprise

2011 Teaching Incentive Program (TIP) Award presented by UCF for outstanding efforts in teaching

2008 UCF Women Making History Award

http://womens.research.ucf.edu/

2007 NASA Blue Marble Award

http://oim.hq.nasa.gov/oia/emd/events.html

2007 Inducted into the Space Technology Hall of Fame

http://www.spacetechhalloffame.org/

2007 Tech Museum of Innovation Award Intel Environmental Laureate

http://www.techawards.org/about/

2006 Federal Laboratory Consortium Southeastern Award

http://www.flcsoutheast.org/TechAwards.html

2006 Federal Laboratory Consortium National Award

http://www.federallabs.org/awards/

2006 KSC-NASA Environment and Energy Award

http://environmental.ksc.nasa.gov/awardInfo.htm#eea

2006 2005 NASA Government Invention of the Year Award for “Zero-valent metal emulsion for reductive dehalogenation of DNAPLs” http://www.nasa.gov/home/hqnews/2006/oct/HQ\_06341\_Invention05.html

2006 2005 NASA Commercial Invention of the Year Award for “Zero-valent metal emulsion for reductive dehalogenation of DNAPLs” http://www.nasa.gov/centers/kennedy/news/releases/2006/release-20061026.html

2006 NASA Space Act Award

http://www.nasa.gov/offices/oce/icb/reqs.html

2006 Teaching Incentive Program (TIP) Award presented by UCF for outstanding efforts in teaching

2005 Research Incentive Award: Award presented by UCF for outstanding efforts in research

2004 Gold Quality Dollar Award presented by National Aeronautics and Space Administration for continual improvement in research innovation.

2002 College Excellence in Undergraduate Teaching Award presented by UCF for outstanding efforts in teaching

2001 Outstanding Chemist Award presented by the Orlando Section of the American Chemical Society

1. Teaching Incentive Program (TIP) Award presented by UCF for outstanding efforts in teaching
2. Gold Quality Dollar Award presented by National Aeronautics and Space Administration for continual improvement in research innovation.
3. Certificate of Recognition presented by National Aeronautics and Space Administration (NASA) for creative development of exceptional scientific and technical contributions of significant value
4. Outstanding Advisor Certificate of Appreciation presented by the UCF American Chemical Society Student Affiliates
5. Certificate of Recognition presented by NASA for submission in NASA Tech Briefs: Reactive Material Placement Technique for Groundwater Treatment

1997 Certificate of Recognition presented by NASA for submission in NASA Tech Briefs: Enhancement of Zero-Valent Metal Treatment of Contaminated Groundwater by the Use of Ultrasound

1. National Science Foundation Postdoctoral Research Fellowship in Chemistry
2. National Science Foundation Graduate Fellowship in Chemistry
3. Summa Cum Laude (BS in Chemistry) from University of Central Florida
4. Graeme and Hazel Baker Award from University of Central Florida Chemistry Department for Outstanding Senior Chemistry Major

# Teaching

During the first five years at UCF, my teaching load was commonly two courses per semester plus responsibility for organizing either the graduate teaching assistants for six to eight recitation sections for CHM 2045 or the CHM 2046 lab sections (ten or more). In 2005 when I assumed the position of Associate Chair/Undergraduate Coordinator, my teaching load in the Chemistry Department dropped to one class per semester but I have often taught two as part of the UCF EXCEL program, an NSF sponsored STEM improvement grant. Additionally, over the past four years I have established the Chemistry Tutoring Center (including finding space, scheduling GTAs, training, maintaining and monitoring), developed the GTA training program, and transformed the CHM 2046 laboratories including transition to inquiry-based teaching and incorporation of writing across the curriculum pedagogy. My teaching accomplishments have earned three UCF Teaching Incentive Awards and the College of Sciences Excellence in Undergraduate Teaching award.

I have taught many thousands of students (well over 11,000) since I began my teaching career in 1996. I enjoy teaching all levels of undergraduates and graduate students but have a particular talent with teaching large freshman classes. The results of my student teaching evaluations are consistently ‘very good’ to ‘excellent’ for greater than 70% of students, even in the large classes.

**Courses Taught:**

CHM 2045C Fundamentals of Chemistry I

CHM 2046 Fundamentals of Chemistry II

CHM 2046L Fundamentals of Chemistry II Laboratory

Coordinator of 20-24 sections (10-14 GTAs) including GTA training, monitoring, feedback on teaching, weekly GTA meetings with instruction on pedagogy **(new to our department)**

CHM 4610 Inorganic Chemistry

CHM 4610L Inorganic Chemistry Laboratory

CHM 3422 Applied Physical Chemistry (New course development)

CHS 4615 Environmental Chemistry (New course development)

CHS 6613 Current Topics in Environmental Chemistry (New course development)

# Listing of Doctoral Students Graduated and Postdoctoral Sponsor

1. Robert Devor
2. Rebecca Fidler Albo
3. Erin Saitta
4. Phillip Maloney
5. Marc Elie
6. Tamra Legron-Rodriguez
7. Simone Novaes-Card
8. Jigna Patel
9. Janelle Coutts
10. Carolina Franco
11. Fiona Zullo
12. Douglas Tomlin
13. Kathleen Loftin
14. Cristy Oropezo
15. Candice Kirkland,

**Postodoctoral Sponsor**

1. Carolina Franco
2. Robert DeVor
3. Fiona Zullo

# Professional Society Service

* National Councilor Orlando Section American Chemical Society: 2001-2004
* State Section Chair Environmental and Chemical Sciences, Florida Academy of Sciences: March 1999-March 2000 and March 2002-2003
* **President, Florida Academy of Sciences:** March 2003-March 2005

**Member of Professional Societies:**

I am a member of the following organizations:

* American Chemical Society (ACS)-Divisions of Environmental Chemistry and Industrial and Engineering Chemistry
* Florida Academy of Sciences

**Reviewer for the following Research Journals:**

|  |
| --- |
| 1. Energy and Environmental Science |
| 1. Environmental Science and Technology |
| 1. Green Chemistry |
| 1. Journal of Hazardous Materials |
| 1. Chemosphere |
| 1. Climate Research |
| 1. Analytica Chimica Acta |
| 1. Aerosol Science and Technology |
| 1. Chemical Engineering Journal |
| 1. Environmental Toxicology and Chemistry |
| 1. Science of the Total Environment |
| 1. Journal of Contaminant Hydrology |
| 1. Environmental Chemistry |
| 1. Journal of Aerosol Science |
| 1. Environmental Geochemistry and Health |
| 1. Aerosol and Air Quality Research |
| 1. Applied Geochemistry |
| 1. Journal of Atmospheric Chemistry |
| 1. Journal of Environmental Sciences |
| 1. Environmental Science and Pollution Research |
| 1. International Journal of Environmental Science and Technology |
| 1. Water, Air, and Soil Pollution |
| 1. Environmental Chemistry Letters |
| 1. Environmental Earth Sciences |
| 1. Clean - Soil, Air, Water |
| 1. International Journal of Phytoremediation |
| 1. Ozone: Science and Engineering |
| 1. Environmental Technology |
| 1. Journal of Environmental Engineering, ASCE |
| 1. Environmental Engineering Science |
| 1. Water Environment Research |
| 1. Toxicological and Environmental Chemistry |
| 1. Soil and Sediment Contamination |
| 1. Journal of Materials and Environmental Science |
| 1. Florida Scientist |
| 1. Remediation |
| 1. Journal of Environmental Health Science and Engineering |
| 1. Journal of Chemical Education |

# Publications

**Book, Journal Articles and Book Chapters** (all peer reviewed)

## Books (Editor)

Cherie L. Geiger and Kathleen Carvalho-Knighton.(Eds.) Environmental Applications of Nanoscale and Microscale Reactive Metal Particles. ACS Symposium Series, Vol. 1027, December 20, 2009.

C. L. Geiger and T. Wlodarczyk (Eds.). EXCEL Applications of Calculus I. Published for the University of Central Florida EXCEL Program Applications of Calculus I Course, August 2006.

## Journal Publications

|  |  |
| --- | --- |
| 31. | Saitta, E.K., Gittings, M.J., Clausen, C.A., Quinn J., Yestrebsky, C.L. (2015) Case Study of a Non-Destructive Treatment Method for the Remediation of Military Structures Containing Polychlorinated Biphenyl Contaminated Paint. Accepted by *Journal of Environmental Management*. |
| 30. | Rueda, J.C., Randall, A.A., Davis, C., Franco, C., Yestrebsky, C.L. (2015) Toxicity Studies of AKGA/Hydrazines Degradation Byproducts and their Compatibility with Sewage Treatment Plant Operation. *Environmental Engineering Science.* |
| 29. | Maloney, P., Clausen, C.A., Yestrebsky, C.L. (2014) Degradation and Kinetics of Organochlorine Pesticides, PBDE, and Chlorinated Dioxins Using Mg and Mg/C. submitted to *Chemosphere*. |
| 28. | Tomlin, D., Clausen, C.A., Yestrebsky, C.L. (2014) Catalytic Hydrodefluorination of Decafluoropentane by Mg-Pd/C in Aqueous Media via Bimetallic Activation of the C-F Bond. Submitted to *Environmental Science & Technology*. |
| 27. | Elie, M.R., Clausen, C.A., Yestrebsky, C.L. (2014) Application of a Magnesium/co-solvent System for the Degradation of Polycyclic Aromatic Hydrocarbons and their Oxygenated Derivatives in Spiked Soil. *Chemosphere*, Issue 117, pp. 793-800. |
| 26. | Edwards, E.K., Yestrebsky, C.L., Saitta, E.K. (2014) Transforming the General Chemistry Program at a Large Research University. *Proceedia Social and Behavioral Sciences*. |
| 25. | Yestrebsky, C.L. (2014) Flipping the Classroom in a Large Chemistry Class-Research University Environment. *Proceedia Social and Behavioral Sciences.* |
| 24. | Saitta, E.K., Gittings, M.J., Clausen, C.A., Quinn, J., Yestrebsky, C.L. (2014) Laboratory Evaluation of a Prospective Remediation Method for PCB-Contaminated Paint. *Journal of* *Environmental Health Science and Engineering*, 12:57. doi:10.1186/2052-336X-12-57. |
| 23. | Elie, M.R., Clausen, C.A., Yestrebsky, C.L. (2013) Multivariate Evaluation and Optimization of an Activated-magnesium/co-solvent System for the Reductive Degradation of Polycyclic Aromatic Hydrocarbons. *Journal of Hazardous Materials*, pp. 248- 249, 150- 158. |
| 22. | Elie, M.R., Clausen, C.A., Yestrebsky, C.L. (2013) Degradation of Oxygenated Polycyclic Aromatic Hydrocarbons (OPAHs): A Chemical reduction Treatment. *Chemosphere*, Issue 91, pp. 1273-1280. |
| 21. | Patel, J., Franco, C., Diaz, D.J., Yestrebsky, C.L. (2013) Indirect Determination of Hydroxyl Radicals in Fine Particle Mist Generated from an Odor Control Technology Via HPLC. *Ozone: Science & Engineering.* |
| 20. | Elie, M.R., Geiger, C.L., Clausen, C.A. (2012) Reduction of Benzo[a]pyrene with Acid-activated Magnesium Metal in ethanol: a Possible Application for Environmental remediation. *Journal of Hazardous Materials*, Pp. 203-204, 77-85. |
| 19. | Young, C., Georgiopoulos, M., Hagen, S., Geiger, C.L., Falls, M., Islas, A., Ramsey, P., Lancey, Forde, D., Smith, E. (2011) Improving student learning in calculus through applications. *International Journal of Mathematical Education in Science and Technology*, 42:5, 591-604. |
| 18. | Saitta, E.K., Bowden, M., Geiger, C.L. (2011) Incorporating service-learning, technology, and research supportive teaching techniques in the university classroom. *Journal of Science Education and Technology*, 20, 790-795. |
| 17. | Maloney, P., Devor, R., Novaes-Card, S., Saitta, E., Quinn, J., Clausen, C.A., Geiger, C.L. (2011) Dechlorination of polychlorinated biphenyls using magnesium and acidified alcohols. *Journal of Hazardous Materials*, Issue 187 (1-3), 235-40. |
| 16. | Coutts, J.L., Devor, R.W., Aitken, B., Hampton, M.D., Quinn, J.W., Clausen, C.A., Geiger, C.L. (2011) The Use of Mechanical Alloying for the Preparation of Palladized Magnesium Bimetallic Particles for the Remediation of PCBs. *Journal of Hazardous Materials*, Issue 193(3), 1380-1387. |
| 15. | Saitta, E.H., Gittings, M., Geiger, C.L. (2011) Learning Dimensional Analysis through Collaboratively Working with Manipulatives. *Journal of Chemistry Education,* Issue 88, 910-915. |
| 14. | Hermanussen, M., Godina, E., Ruhili, F.J., Blaha, P., Boldsen, J.L., Van Buuren, S., MacIntyre, M., Abmann, C., Ghosh, A., de Stephano, G.F., Sonkin, V.D., Tresguerres, J.A.F., Meigen, C., Scheffler, C., Geiger, C.L., Lieberman, L.S. (2009) Growth variant, final height and secular trends. Proceedings of the 17th Aschauer Soiree. *HOMO-Journal of Comparative Human Biology*, Issue 61, 277-284 |
| 13. | Fidler, R., Albo, L., Legron, T., Gittings, M.J., Ellis, M.R., Holland, Saitta, E., Sigman, M.E., Geiger, C.L., Clausen, C.A. (2010) Degradation of Triacetone Triperoxide (TATP) Using Mechanically Alloyed Mg/Pd. *Propellants, Explosives, Pyrotechnics*, 35, 100-104. |
| 12. | DeVor R., Carvalho-Knighton, K., Aitken, B., Maloney, P., Holland, E., Talalaj, L., Elsheimer, S., Clausen, C.A., Geiger, C.L. (2009) Mechanism of the degradation of individual PCB congeners using mechanically alloyed Mg/Pd in methanol. *Chemosphere*, 76, 761-766. |
| 11. | DeVor, R., Carvalho-Knighton, K., Aitken, B., Maloney, P., Holland, E., Talalaj, L., Fidler, R., Elsheimer, S., Clausen, C.A., Geiger, C.L. (2008) Dechlorination comparison of mono-substituted PCBs with Mg/Pd in different solvent systems. *Chemosphere*, 73, 896-900. |
| 10. | Sigman, M.E., Clark, C.D., Fidler, R.F., Geiger, C.L., Clausen, C,A. (2006) Analysis of Triacetone Triperoxide by Gas Chromatography/Tandem Mass Spectrometry by Electron and Chemical Ionization. *Rapid Communications in Mass Spectrometry*, 20:19, 2851-2857. |
| 9. | O'Hara, S., Krug, T., Quinn, J., Clausen, C.A., Geiger, C.L. (2006) Field And Laboratory Evaluation Of The Treatment Of DNAPL Source Zones Using Emulsified Zero-Valent Iron. *Remediation Journal,* 16:2, 35 – 56. |
| 8. | Quinn, J.W., O'Hara, S., Clausen, C.A., Krug, T., Yoon, S., Holdsworth, T., Geiger, C.L. (2005) Field Demonstration of DNAPL Dehalogenation Using Emulsified Zero-Valent Iron. *Environmental Science & Technology,* 39:5, 1309-1318. |
| 7. | Gallardo-Williams, M.T., Geiger, C.L., Pidala, J.A., Martin, D.F. (2002) Essential Fatty Acids and Phenolic Acids from Extracts and Leachates of Southern Cattail (Typha domingensis P.). *Phytochemistry,* 59:3, 305-308. |
| 6. | Liu, Y. H., Geiger, C. L., Randall., A.A. (2002) The Role of Poly-hydroxy-alkanoate in Determining the Response of Enhanced Biological Phosphorus Removal Biomass to Volatile Fatty Acids. *Water Environment Research,* 11, 56-67. |
| 5. | Geiger, C. L., Ruiz, N., Clausen, C.A., Reinhart, D.R., Quinn, J.R. (2002) Ultrasound Pretreatment of Iron Metal: Kinetic Studies and Surface Effects. *Water Research*, 36, 1342-1350. |
| 4. | Martinez, A., Cooper, C.D., Clausen C.A., Geiger, C.L. (1995) Kinetic Modeling of the H2O2 Enhanced Incineration of Heptane and Chlorobenzene. *Waste Management*, 15, 43-53. |
| 3. | Geiger, C. L. (1994) Hydrogen Peroxide or Ozone Injection May Improve Incinerator DRE without Boosting NOx. *The Hazardous Waste Consultant*, 12, 136-7. |
| 2. | Martinez, A., Geiger, C.L, Clausen, C.A., Cooper, C.D. (1993) Using Hydrogen Peroxide or Ozone to Enhance the Incineration of Volatile Organic Vapors. *Waste Management*, 13, 261-276. |
| 1. | Martinez, A., Geiger, C.L, Clausen, C.A., Cooper, C.D. (1992) Enhancement of kinetics of incineration of dilute hazardous organic vapors by addition of hydrogen peroxide or ozone. *Gulf Coast Hazardous Substance Research Center News*. |
|  |  |

## Book Chapters

|  |  |
| --- | --- |
| 12. | Yestrebsky, C. L. Chapter 2: Flipping a Large First-Year Chemistry Class: Same-Semester Comparison with a Traditionally Taught Large-Lecture Class. In: Best practices for Flipping the College Classroom. Melody Bowdon and Julee Waldrop, Eds. Routledge, July 2015. |
| 11. | Yestrebsky, C. L. Chapter 6.18: Growth and Pollutants. Auxology, Studying Human Growth and Development. Michael Hermanussen, Ed.: E. Scheizerbart’sche Verlagsbuchhandlung, Stuttgart, Germany. pp 130-132, 2013. |
| 10. | Fidler, R., Legron, T., Geiger, C.L., Clausen, C.A., Sigman, M.E.   Chapter 7:  Degradation of TATP, TNT, and RDX.  Environmental Application of Nanoscale and Microscale Reactive Metal Particles.  ACS Symposium Series, Vol. 1027, pp 117-134, 2009. |
| 9. | DeVor, R., P. Maloney, C.A. Clausen, S. Elsheimer, K. Carvalho-Knighton C.L. Geiger:  Chapter 4:  Proposed Mechanisms for the Dechlorination of PCBs using Microscale Mg/Pd in Methanol.  Environmental Applications of Nanoscale and Microscale Reactive Metal Particles.  ACS Symposium Series, Vol. 1027, pp 55-74, 2009. |
| 8. | Geiger, C.L., K. Carvalho-Knighton , S. Novaes-Card, P. Maloney, R. DeVor:  Chapter 1:  A Review of Environmental Applications of Nanoscale and Microscale Reactive Metal Particles.  Environmental Applications of Nanoscale and Microscale Reactive Metal Particles.  ACS Symposium Series, Vol. 1027, pp1-20, 2009. |
| 7. | Geiger, C. L., C. A. Clausen, K. Brooks, C. Clausen, C. Huntley, L. Filipek, D. R. Reinhart, J. Quinn, T. Krug, S. O’Hara and D. Major. “Nanoscale And Microscale Iron Emulsions For Treating DNAPL.” Chapter 9, In: Chlorinated Solvent and DNAPL Remediation, Susan Henry and Scott Warner (Eds.). ACS Symposium Series 837. ISBN # 0-8412-3793-X. ACS Books, Washington D.C. 2002. |
| 6. | Geiger, C. L., C. A. Clausen, D. R. Reinhart, A. S. Sonawane, N. Ruiz and J. Quinn. “Using Ultrasound For Restoring Iron Activity In Permeable Reactive Barriers.” Chapter 19 In: Chlorinated Solvent and DNAPL Remediation, Susan Henry and Scott Warner (Eds.). ACS Symposium Series 837, ISBN # 0-8412-3793-X. ACS Books, Washington D.C. 2002. |
| 5. | Sfeir, H., A. Randall, D. Reinhart, M. Chopra, C. Clausen, C. Geiger. “Biotic Attenuation and Zero-Valent Iron Permeable Barrier Technology.” In: Chemical Oxidation and Reactive Barriers, G. B. Wickramanayake, A. R. Gavaskar and A. S. C. Chen (Eds.). Battelle Press, Columbus, Ohio, 2000. |
| 4. | Clausen, C. A., C. L. Geiger, D. R. Reinhart, N. Ruiz, K. Farrell, P. Toy, N. Lau Chan, M. Cannata, S. Burwinkle. “Ultrasonic Regeneration of Permeable Treatment Walls: Laboratory/Field Studies.” In: Chemical Oxidation and Reactive Barriers, G. B. Wickramanayake, A. R. Gavaskar and A. S. C. Chen (Eds.). Battelle Press, Columbus, Ohio, 2000. |
| 3. | Sfeir, H., A. Randall, D. Reinhart, M. Chopra, C. Clausen, C. Geiger. “Biotic Attenuation and Zero-Valent Iron Permeable Barrier Technology.” In: Chemical Oxidation and Reactive Barriers, G. B. Wickramanayake, A. R. Gabaskar and A. S. C. Chen (Eds.). Battelle Press, Columbus, Ohio, 2000. |
| 2. | Clausen, C. A., C. L. Geiger, D. R. Reinhart, N. Ruiz, K. Farrell, P. Toy, N. Lau Chan, M. Cannata, S. Burwinkle. “Ultrasonic Regeneration of Permeable Treatment Walls: Laboratory/Field Studies.” In: Chemical Oxidation and Reactive Barriers, G. B. Wickramanayake, A. R. Gabaskar and A. S. C. Chen (Eds.). Battelle Press, Columbus, Ohio, 2000. |
| 1. | Ruiz, N., D. Reinhart, C. Clausen, C. Geiger, and J. Quinn, “Enhanced Zero-Valent Iron Degradation Of Chlorinated Solvents Using Ultrasound,” In: Designing and Applying Treatment Technologies, G. B. Wickramanayake, B. Godage and R. E. Hinchee (Eds.) Battelle Press, Columbus, Ohio, 1998. |

## Published Full-Paper Proceedings

|  |  |
| --- | --- |
| 36. | Michael Hermanussen, MD, Anisimova A, Christian Aßmann, Dr, Stef van Buuren PhD, Antonio D. Cámara PhD, Mona Abbas El-Husseini, MD, Mortada Hassan El-Shabrawi MD, Elena Zinovyevna Godina, PhD, DSc, Aleksandra Gomula, MSc, Detlef Groth, Dr, Slawomir Koziel, Dr, Leslie Sue Lieberman PhD, Christof Meigen, Rebekka Mumm, MSc, Koichi Nariyama, PhD, Natalia Nowak-Szczepanska, MSc, Natalija Novokmet, PhD, Takashi Satake, PhD, Christiane Scheffler, Dr, Jani Söderhäll, Andrej Suchomlinov, PhD, Janina Tutkuviene, MD, Jan M Wit1, MD, PhD, Ursula Witwer-Backofen, Dr, Cherie Lynn Yestrebsky, PhD. “Proceedings of the 22nd Aschauer Soiree on Growth and Health Screening”, held at Altenhof, Germany, November 15th, 2014. Pediatric Endocrinology Reviews (PER) n Volume 12, No 3, March 2015. |
| 35. | Phillip Maloney, Christian Clausen, Cherie Geiger, Jacqueline W. Quinn, and Robert W. DeVor. Degradation of Various Organochlorine Pesticides by Microscale Magnesium and Acidified Ethanol: Proof of Concept and Potential Field Applications. Proceedings of the 8th International Remediation of Chlorinated and Recalcitrant Compounds. May 21-24, 2012. |
| 34. | Crouse, T., P. Lancey, P. Ramsey, C. Geiger, S. Hagen, M. Falls, A. Islas, M. Georgiopoulos, C. Young. “EXCEL in Mathematics: Applications of Calculus.” Proceedings of the American Society of Engineering Education (ASEE) Annual Conference and Exposition, Mathematics Division, Louisville, KY, June 20-23, 2010. |
| 33. | Hermanussen, M., E. Godina, F.J. Rühli, P. Blaha, J.L. Boldsen, S. van Buuren, M. MacIntyre, C. Aßmann, A. Ghosh, G.F. de Stefano, V.D. Sonkin, J.A.F. Tresguerres, C. Meigen, C. Scheffler, C. Geiger, L.S. Lieberman. “Growth variation, final height and secular trend.” Proceedings of the 17th Aschauer Soiree, Aschauer, Germany. 7th November 2009. |
| 32. | Georgiopoulos, M., C. You, C. Geiger, S. Hagen, C. Parkinson, A. Morrison-Shetlar, T. Crouse, P. Krist, P. Lancey, M. Falls, P. Ramsey, D. Forde, A. Koufakou. “Progress of the EXCEL Program at the University of Central Florida: An NSF STEP Funded Project.” Proceedings of the American Society of Engineering Education (ASEE) Annual Conference and Exposition, Mathematics Division, Austin TX, June 14-17, 2008. |
| 31. | Quinn, Jacqueline, Christian Clausen, Cherie Geiger, James Captain, Suzanne O’Hara, Nancy Ruiz. “Field-scale Application of a Bimetallic Treatment System to Degrade PCBs Found in Paint.” Proceedings of The Sixth International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA, May 19-22, 2008. |
| 30. | Maxwell, Deborah, Christian A. Clausen, Kristen Milum, Robert DeVor, Cherie L. Geiger. “Remediation of heavy metals in sediments using emulsified zero valent metals.” Proceedings of the ConSoil 2008 Meeting, Milan Italy, June, 3-6, 2008. |
| 29. | Fidler, Rebecca, Christian A. Clausen, Michael E. Sigman, Cherie L. Geiger. Using mechanically alloyed metals to degrade TATP, TNT, and RDX. Proceedings of the ConSoil 2008 Meeting, Milan Italy, June, 3-6, 2008. |
| 28. | Maxwell, Deborah, Robert W. DeVor, Brian Aitken, Rachel Calabro, Micahel Hampton, Kristen M. Milum, Cherie L. Geiger, Christian A. Clausen, Jacqueline W. Quinn. “Heavy Metal Remediation of Soils and Sediments by Application of Emulsified Liquid Membrane Technology.” 4th International Conference on Remediation of contaminated Sediments, Savanah GA, Feb 2007. Eds. A. Gavaskar and S. Yoon. Battelle Press, ISBN # 1-57477-132-9. February 2007. |
| 27. | Geiger, C. L. and C. A. Clausen. “Application of Emulsified Nanoscale Zero-Valent Iron.” Proceedings of the 2006 International Conference on Nanotechnology, Sun Yat-Sen University (NSYSU), Kaohsiung, Taiwan, August 7-9, 2006. |
| 26. | Brooks, Kathleen, Jacqueline Quinn, Christian Clausen, Cherie Geiger, Brian Aitken, James Captain, and Robert DeVor. “A Novel Method for Remediation of PCBs in Weathered Coatings.” Remediation of Chlorinated and Recalcitrant Compounds 2006, Eds. A. Gavaskar and S. Yoon. Battelle Press, ISBN # 1-57477-132-9. May 2006. |
| 25. | Berger , Cristina M., Cherie L. Geiger, and Christian A. Clausen, Alexa M. Billow,Jacqueline W. Quinn and Kathleen B. Brooks. “Evaluating Trichloroethylene Degradation Using Differing Nano- and Micro-Scale Iron Particles.” Remediation of Chlorinated and Recalcitrant Compounds 2006, Eds. A. Gavaskar and S. Yoon. Battelle Press, ISBN # 1-57477-132-9. May 2006. |
| 24. | DeVor, Robert W., Kristen M. Milum, Cherie L. Geiger, Christian A. Clausen, Jacqueline W. Quinn. “Remediation of Heavy Metal Contamination Using Emulsified Magnesium Particles.” Remediation of Chlorinated and Recalcitrant Compounds 2006, Eds. A. Gavaskar and S. Yoon. Battelle Press, ISBN # 1-57477-132-9. May 2006. |
| 23. | Aitken, Brian, Cherie Geiger, Christian Clausen, Jacqueline Quinn. “Variables Associated With Mechanical Alloying of Bimetals for PCB Remediation.” In: Remediation of Chlorinated and Recalcitrant Compounds 2006, Eds. A. Gavaskar and S. Yoon. Battelle Press, ISBN # 1-57477-132-9. May 2006. |
| 22. | Quinn, Jacqueline W., Kathleen B. Brooks, Cherie L. Geiger, Christian A. Clausen, and Kristen M. Milum. “Application of Emulsified Zero-Valent Iron to Marine Environments.” Remediation of Chlorinated and Recalcitrant Compounds 2006, Eds. A. Gavaskar and S. Yoon. Battelle Press, ISBN # 1-57477-132-9. May 2006. |
| 21. | Geiger, Cherie L., Christina C. Coon, Christian A. Clausen, Jacqueline Quinn, Suzanne O’Hara, Thomas Krug. “Overview Of Emulsified Zero-Valent Iron (Ezvi) Incorporating Nanoscale Iron Particles For Reduction Of DNAPL” in Proceedings of the Consoil 2005 Conference. 2005. |
| 20. | Milum, Kristen, Cherie L. Geiger, Christian A. Clausen, Jacqueline Quinn. “Removal of heavy Metals Contaminants Using Emulsified Nano-Scale Iron Particles.” Remediation of Soils and Sediments, 2005, Battelle Press. |
| 19. | Milum, Kristen, Cherie L. Geiger, Christian A. Clausen, Jacqueline Quinn. “In Situ Heavy Metal Contaminant Removal Using Emulsified Iron,” Remediation of Chlorinated and Recalcitrant Compounds 2004, Battelle Press, ISBN # 1-57477-132-9. May 2004. |
| 18. | Geiger, Cherie L., Christina C. Coon, Christian A. Clausen, Kathleen Brooks, and Christian Huntley, Jacqueline Quinn,Suzanne O’Hara, Thomas Krug and David Major. “Optimization Of Emulsified Zero-Valent Iron Particles For Reduction Of DNAPL” Remediation of Chlorinated and Recalcitrant Compounds 2004, Battelle Press, ISBN # 1-57477-132-9. May 2004. |
| 17. | Quinn, Jacqueline, Suzanne O’Hara, Tom Krug, Cherie Geiger, Chris Clausen. “Evaluating The Distribution Of Emulsified Zero-Valent Iron For Four Different Injection Techniques,” Remediation of Chlorinated and Recalcitrant Compounds 2004, Battelle Press, ISBN # 1-57477-132-9. May 2004. |
| 16. | Quinn, Jacqueline, Suzanne O’Hara, Tom Krug, Cherie Geiger, Chris Clausen. “Evaluating The Distribution Of Emulsified Zero-Valent Iron For Four Different Injection Techniques,” Remediation of Chlorinated and Recalcitrant Compounds 2004, Battelle Press, ISBN # 1-57477-132-9. May 2004. |
| 15. | Geiger, Cherie L., Christian A. Clausen, Debra R. Reinhart, Jacqueline Quinn “Field Application Of Ultrasound To Iron Containing PRBs” Third International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA. Volume 5, pgs 150-157. ISBN 1-57477-153-2. May 22-25, 2002. |
| 14. | Sfier, Hala , A. Randall, D. Reinhart, C.Clausen, C.Geiger. “Long Term Effect of Biotic Reductive Degradation on Permeable Treatment Walls”. International Containment Conference, Orlando, FL., paper No.153, June 2001 |
| 13. | Geiger, Cherie L. , Christian A. Clausen, Debra Reinhart, Aamod Sowone, Nancy Ruiz. “Restoring Iron Activity in Permeable Treatment Walls by the In Situ Use of Ultrasound”. International Containment Conference, Orlando, FL., paper No.152, June 2001. |
| 12. | Geiger, Cherie L., Christian A. Clausen, Kathleen Brooks, David Major. “Treating DNAPL IN Situ Using Nanoscale and Microscale Iron Emulsions.” International Containment Conference, Orlando, FL., paper No. 151, June 2001. |
| 11. | Geiger, C. L., C. A. Clausen, E. Ofori, T. Restar-Recine, J. Hale. “The Synthesis and Characterization of New, Inexpensive, Environmentally-Safe MMW Screening Materials.” Proceedings of the Scientific Conference on Obscuration and Aerosol Research, 2000. Aberdeen Proving Ground, Maryland. June 27-29, 2000. |
| 10. | Geiger, C. L., C. A. Clausen, D. R. Reinhart, N. Ruiz, P. Toy, N. Lau Chan and J. Quinn. “Laboratory and Field Studies on the Use of Ultrasound to Enhance or Restore Dechlorination Rates of Permeable Treatment Walls Containing Iron.” Proceedings of the American Institute of Chemical Engineers International Conference, Atlanta, GA, March 5-9, 2000. |
| 9. | Clausen, C. A., C. L. Geiger, P. Toy, D. R. Reinhart, M. Cannata, M. Chopra and J. Quinn. “Use of Ultrasound in a Saturated Soil/Iron Matrix to Remediate Contaminated Groundwater.” Ultrasound Industry Association 29th Annual Symposium, Baltimore, Maryland, June 7-8, 1999. |
| 8. | Reinhart, D. R., 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. |
| 7. | Geiger, C. L., C. A. Clausen, D. Reinhart, N. Ruiz, P. Toy, N. Lau. "The Use Of Ultrasonic Energy For Regeneration Of Reactive Iron Used In In Situ Remediation." Proceedings of The Air And Waste Management Association 91st Annual Meeting, San Diego, California, June 14-18, 1998. |
| 6. | Ruiz, N., D. Reinhart, C. A. Clausen, C. L. Geiger, P.Toy. “Use of Sonication-Enhanced Zero-Valent Iron in Reductive Dehalogenation Degradation of Organic Solvents,” Proceedings of Subsurface Barrier Technologies Symposium, Tucson, Arizona, January 26-27, 1998. |
| 5. | Reinhart, D. R., J. W. Quinn, C. A. Clausen, C. Geiger, N. Ruiz, G. F. Afiouni, “Enhanced Zero-Valent Metal Permeable Wall Treatment of Contaminated Groundwater.” Proceedings of the 1997 International Containment Technology Conference and Exhibition, St. Petersburg, Florida, Feb.10, 1997. |
| 4.. | Reinhart, D. R., C. Clausen, C. Geiger, N. Ruiz, G. Afiouni, “Enhancement of In-Situ Zero-Valent Metal Treatment of Groundwater,” Proceedings of the ASCE NAPL Assessment and Remediation, Washington, D.C., Nov. 11, 1996. |
| 3. | Reinhart, D., C. Clausen, C. L. Geiger, N. Ruiz, G. Afiouni. “Enhancement of In-Situ Zero Valent Metal Treatment of Contaminated Groundwater.” American Society of Civil Engineers 1996 Conference Proceedings. November 1996. |
| 2. | Geiger, C. L., C. A. Clausen, C. D. Cooper, A. I. Martinez. “Enhanced Oxidation of Volatile Organic Compounds from Flue Gases Using Hydrogen Peroxide.” Emerging Technologies in Hazardous Waste Management VII Proceedings, September 1995. |
| 1. | Geiger, C. L., C. A. Clausen, C. D. Cooper, A. I. Martinez. “Using Hydrogen Peroxide to Enhance the Thermal Destruction of Dilute Volatile Organic Compounds.” Air & Waste Management Association 88th Annual Meeting Proceedings. June 1995. |

## Other Pertinent Publications

Published Extended Abstracts (four to five published pages in length) and short articles in trade journals. Many Divisions of ACS do not publish (or even require) extended abstracts; however, the Division of Environmental Chemistry publishes extended abstracts and distributes them by hardcopy prior to 1999 and on CD since the 220th Meeting. These proceedings are distributed to the more than 30,000 members of the division. NASA Tech Briefs is a publication by NASA that is distributed to all NASA facilities as well as industries associated with NASA.

|  |  |
| --- | --- |
|  |  |
| 21. | My work covered in a summary review of nanotechnologies in environmental remediation. “Special Treatment, Tiny technology tackles mega messes.” Alexandra Goho, Science News, 2005, 167, 266-268. |
| 20. | Geiger, C., C. Clausen, J. Quinn, K. Millium, and R. Devor. “Development of an Electrokinetic Technique for Insitu Remediation of Soils Contaminated with Heavy Metals.” NASA Tech Briefs, p 56, February 2004. |
| 19. | Geiger, C., C. Clausen, J. Quinn, C. Coon and K. Brooks. “Treatment to Destroy Chlorohydrocarbon Liquids in Groundwater.” NASA Tech Briefs, June 2003. |
| 18. | Filipek, Laura, Christina Clausen Coon, Cherie L. Geiger, Christian A Clausen, Jacqueline Quinn, and Robert Devor. Dechlorination of Polychlorinated Biphenyls in Solution by Pd/Fe Bimetallic Emulsions. American Chemical Society Division of Environmental Chemistry, Preprints of Extended Abstracts, 225th ACS Meeting, New Orleans La, March 23-27, 2003. Vol. 43, No.1. |
| 17. | Geiger, Cherie L., Christian A. Clausen, Kathleen Brooks, Christina Clausen, Christian Huntley, Laura Filipek, Robert DeVor , Tom Krug, Suzanne O’Hara and David Majors Jacqueline Quinn. “Remediation Of DNAPLs Using Emulsified Zero-Valent Iron: Laboratory And Field Results.” American Chemical Society Division of Environmental Chemistry, Preprints of Extended Abstracts, 225th ACS Meeting, New Orleans La, March 23-27, 2003. Vol. 43, No.1. |
| 16. | Quinn, J., C.A. Clausen, D.E. Reinhart, and M.B. Chopra, “Reactive Material Placement technique for Groundwater Treatment.” NASA Tech Briefs, Vol 26, p16 January 2002. |
| 15. | Quinn, J., D. R. Reinhart, C. Clausen, M. Chopra, and C. L. Geiger. “Insertion of Reactive Material for Treating Groundwater.” NASA Tech Briefs, Vol. 26, No. 10. October 2002. |
| 14. | Quinn, J.W., D. Reinhart, C. A. Clausen, C. L. Geiger, N. Ruiz, M. Chopra. “Enhancement of Zero-Valent Metal Treatment of Contaminated Groundwater by the Use of Ultrasound,” NASA Tech Briefs, Vol. 25, No. 9, September 2001. |
| 13. | Quinn, J.W., D. Reinhart, C.A. Clausen, C.L. Geiger, N. Ruiz, M. Chopra. “Enhancement of Zero-Valent Metal Treatment of Contaminated Groundwater by the Use of Ultrasound.” Nasa Tech Briefs, Vol 25, No. 9, p.45, September 2001. |
| 12. | Quinn, J.W., D. Reinhart, C. A. Clausen, C. L. Geiger, N. Ruiz, M. Chopra. “Reactive Material Placement Technique for Groundwater Treatment,” NASA Tech Briefs, Vol. 26, No. 9, September 2001. |
| 11. | Sfeir, H., A. Randall, D. Reinhart, C. Clausen, C. Geiger. “Long Term Effect of Biotic Reductive Degradation on Permeable Treatment Walls.” International Containment Conference, Orlando, FL, June 2001. |
| 10. | Geiger, C. L., C. A. Clausen, D. Reinhart, A. Sanowone, N. Ruiz. “Restoring Iron Activity In Permeable Treatment Walls by the In Situ Use of Ultrasound.” International Containment Conference and RTDF Permeable Reactive Barriers Action Team Meeting , Orlando, FL, June 2001. |
| 9. | Geiger, C. L., C. A. Clausen, K. Brooks, D. Major. “Treating DNAPL IN Situ Using Nanoscale And Microscale Iron Emulsions.” International Containment Conference and RTDF Permeable Reactive Barriers Action Team Meeting, Orlando, FL, June 2001. |
| 8. | Geiger, C. L., C. A. Clausen, D. Reinhart, A. Sanowone, N. Ruiz. “Using Ultrasound for Restoring Iron Activity In Permeable Treatment Walls.” Proceedings of the Spring ACS Meeting, San Diego, CA, April 1-5, 2001. |
| 7. | Geiger, C. L., C. A. Clausen, K. Brooks, D. Major. “Nanoscale And Microscale Iron Emulsions For Treating DNAPL.” Proceedings of the Spring ACS Meeting, San Diego, CA, April 1-5, 2001. |
| 6. | Reinhart, M. Chopra, C. A. Clausen, C. L. Geiger, and J. Quinn. “Permeable Reactive Barrier Installation Using Deep Soil Mixing.” RTDF Permeable Reactive Barriers Action Team Meeting, Melbourne FL, February 16-17, 2000. |
| 5. | Geiger, C. L., C. A. Clausen, D. R. Reinhart and P. Toy. “Synthesis and Characterization of Nano-Scale Iron for Use in the Treatment Of Water Contaminated With Chlorinated Solvents.” International Conference On Nano-Scale Technology, San Francisco, CA, December 12-15, 1999. |
| 4. | Geiger, C. L., Christian A. Clausen, Debra R. Reinhart, Vanessa Prassad, Lucas Pettey, Emmanuel Ofori, and Jacqueline Quinn. “Electrokinetics as a Remediation Technology for Soils Contaminated with Heavy Metals and the Variables Involved in the Process.” NASA 2nd Annual Partners in Education Conference, Melbourne FL, October 6-7, 1999. |
| 3. | Geiger, C. L., Christian A. Clausen, Debra R. Reinhart, Vanessa Prassad, Lucas Pettey, Emmanuel Ofori, and Jacqueline Quinn. “Variables Involved in the Electrokinetic Remediation of Soils Contaminated with Heavy Metals.” Proceedings of the Environmental Division, American Chemical Society Fall Conference, New Orleans, August 22-26, 1999. |
| 2. | Geiger, C. L., C. A. Clausen, D. R. Reinhart, P. Toy, N. Ruiz, N. Chan, J. Quinn. “Using Ultrasound To Examine The Sorptive Characteristics Of Different Zero-Valent Iron Surfaces.” American Chemical Society Meeting, (General Papers and SCI-MIX) Anaheim, CA, March 21-25, 1999. |
| 1. | Geiger, C. L., C. A. Clausen, D. R. Reinhart, N. Ruiz, N. Lau, P. Toy, J. Quinn. “The Use of Ultrasonic Energy for Regeneration of Reactive Iron Used in Permeable Reactive Walls.” Partners in Education & Research Conference, NASA, Kennedy Space Center. Cocoa Beach, Florida, October 6-8, 1998. |

# Patents

|  |  |
| --- | --- |
| 16 | Jacqueline W Quinn, Christian A Clausen, Cherie L Yestrebsky: Treatment System and Method for Removing Halogenated Compounds from Contaminated Sites. June 5, 2014: US2014/0155676A1. |
| 15. | Jacqueline W Quinn, Christian A Clausen, Cherie L Geiger, Brian S Aitken: Mechanical alloying of a hydrogenation catalyst used for the remediation of contaminated compounds. October 16, 2012: US08288307 |
| 14. | Jacqueline W Quinn, Christian A Clausen, Cherie L Geiger, Kathleen B Brooks: Zero-valent metallic treatment system and its application for removal and remediation of polychlorinated biphenyls (PCBs). April 24, 2012: US08163972 |
| 13. | Christian Clausen III, Cherie L Geiger, Michael Sigman, Rebecca Fidler: Safe, in situ methodologies for the destruction of triacetone triperoxide and other explosive peroxides. November 22, 2011: US08062442 |
| 12. | Jacqueline W Quinn, Christian A Clausen, Cherie L Geiger, Brian S Aitken: Mechanical Alloying of a Hydrogenation Catalyst Used for the Remediation of Contaminated Compounds. July 14, 2011: US20110172082-A1 |
| 11. | Jacqueline W Quinn, Christian A Clausen, Cherie L Geiger, Brian S Aitken: Mechanical alloying of a hydrogenation catalyst used for the remediation of contaminated compounds. November 30, 2010: US07842639 |
| 10. | Jacqueline W Quinn, Christian A Clausen, Cherie L Geiger, Kathleen B Brooks: Zero-Valent Metallic Treatment System and its Application for Removal and Remediation of Polychlorinated Biphenyls (PCBs). August 26, 2010: US20100217063-A1 |
| 9. | Jacqueline W Quinn, Christian A Clausen, Cherie L Geiger, Christina Coon, Laura B Filipek, Cristina M Berger, Kristen M Milum: Removal of PCB and other halogenated organic contaminants found in ex situ structures. September 1, 2009: US07582682 |
| 8. | Jacqueline Quinn, Christian Clausen, Cherie L Geiger, Christina Coon, Laura B Filipek, Cristina M Berger, Kristen M Milum: Removal of PCB and Other Halogenated Organic Contaminants Found in Ex Situ Structures. July 24, 2008: US20080177125-A1 |
| 7. | Jacqueline W Quinn, Christian A Clausen, Cherie L Geiger, Brian S Aitken: Mechanical Alloying of a Hydrogenation Catalyst Used for the Remediation of Contaminated Compounds. December 13, 2007: US20070287628-A1 |
| 6. | Jacqueline W Quinn, Kathleen B Brooks, Cherie L Geiger, Christian A Clausen: Bimetallic Treatment System and its Application for Removal and Remediation of Polychlorinated Biphenyls (PCBs). May 17, 2007: US20070112243-A1 |
| 5. | Jacqueline Quinn, Christian Clausen, Cherie L Geiger, Christina Coon, Cristina M Berger, Laura B Filipek, Kristen M Milum: Removal of PCB and other halogenated organic contaminants found in ex situ structures. September 18, 2007: US07271199 |
| 4. | Debra R Reinhart, Christian Clausen, Cherie L Geiger, Jacqueline Quinn, Kathleen Brooks: Zero-valent metal emulsion for reductive dehalogenation of DNAPLs. May 2, 2006: US07037946 |
| 3. | Christian A Clausen, Jacqueline W Quinn, Cherie L Geiger, Debra Reinhart, Laura B Filipek, Christina Coon, Robert Devor: Contaminant removal from natural resources. April 15, 2004: US20040069720-A1 |
| 2. | Debra R Reinhart, Christian Clausen, Cherie L Geiger, Jacqueline Quinn, Kathleen Brooks: Zero-valent metal emulsion for reductive dehalogenation of DNAPLs. December 16, 2003: US06664298 |
| 1. | Jacqueline W Quinn, Christian A Clausen, Cherie L Geiger, Debra R Reinhart, Nancy Ruiz: Use of ultrasound to improve the effectiveness of a permeable treatment wall. January 11, 2000: US06013232 |

# Presentations

### (17 Invited presentations; 176 conference presentations)

## Invited Speaker

|  |  |
| --- | --- |
| 17. | Yestrebsky, C. An overview of K-12 school health screenings in the United States: national guidelines, state practices and comparisons to state-by-state toxic release inventory data. The 22nd Aschauer Soiree on Growth and Health Screening, Altenhof, Germany, November 15, 2014. |
| 16. | Yestrebsky, C. Novel Degradation Methods for Environmental Contaminants: Kinetics and Mechanisms through to Development of Industrial Remediation Technologies. Florida Southern College, Lakeland Florida. October 9, 2014. |
| 15. | Yestrebsky, C., Maloney, P., Clausen, C., Quinn, J.W., DeVor, R.W. Degradation of Various Organochlorine Pesticides by Microscale Magnesium and Acidified Ethanol: Proof of Concept and Potential Field Applications. Platform presentation, 8th International Conference on Remediation of Chlorinated and Recalcitrant Compounds, May 21-24, 2012. |
| 14. | Geiger, C., Ruiz, N., Quinn, J., Clausen, C., Captain, J., O’Hara, S., Krug, T. Application of a Bimetallic Solvent Paste Technology for PCB Removal from Older Structures on DoD Facilities. Platform presentation, 7th International Conference on Remediation of Chlorinated and Recalcitrant Compounds, May 24-27, 2010. |
| 13. | Geiger, C. L. and L. Lieberman. Environmental Toxins, Remediation and their Influence on Growth Variation, Height and Secular Trend. The 17th Aschauer Soiree, Aschauer, Germany, November 7, 2009. |
| 12. | Geiger, C., Clausen, C. Groundwater Remediation Using Liquid Membranes Incorporated with Nanoparticles. Leuphana, Universitat Luneburg. Suderberg, Germany, May 30, 2008. |
| 11. | Geiger, C., Clausen, C. Industrial and Environmental Laboratories at the University of Central Florida. Leuphana, Universitat Luneburg. Luneburg Germany, May 30, 2008. |
| 10. | Geiger, C.L. Cleaning Contaminated Groundwater, Current Work and Future Hopes. A Presentation for the International Sigma Xi Meeting, Orlando, Florida, November 3, 2007. |
| 9. | Geiger, C.L. Liquid Membranes Containing Reactive Particles: New Options for Environmental Remediation and Explosives Degradation. University of Central Florida Burnett Honors College, Orlando, FL, March 2007. |
| 8. | Geiger, C. L. Application of Emulsified Nanoscale Zero-Valent Iron. 2006 International Conference on Nanotechnology, Sun Yat-Sen University (NSYSU), Kaohsiung, Taiwan, August 7-9, 2006. **Conference Plenary Speaker** |
| 7. | Geiger, C. L. Nanoscale and Microscale Metal-Containing Emulsions for Remediation of Heavy Metals. National Sun Yat-Sen University (NSYSU), Kaohsiung, Taiwan, August 6, 2006. |
| 6. | Geiger, C. L., Clausen, C.A. Liquid Membranes Incorporated with Metal Particles for Remediation of Coatings Containing PCBs. Providence University, Taichung, Taiwan, August 12, 2006. |
| 5. | Geiger, C.L., Clausen, C.A. Development and Application Emulsified Zero Valent Iron (EZVI) Technology. University of New Hampshire, Department of Environmental Engineering, November 18, 2005. |
| 4. | Geiger, Cherie L., Clausen, C.A. An Overview of Emulsified Zero Valent Iron (EZVI) Technology. CONSOIL, Bordeaux, France, October 2005. |
| 3. | Geiger, C. L., Clausen, C.A., Reinhart, D., Sanowone, A., Ruiz, N. Using Ultrasound For Restoring Iron Activity In Permeable Treatment Walls. The Spring National ACS Meeting, San Diego, CA, April 1-5, 2001. |
| 2. | Geiger, C. L., Clausen, C.A., Brooks, K., Major, D. Nanoscale And Microscale Iron Emulsions For Treating DNAPL. The Spring National ACS Meeting, San Diego, CA, April 1-5, 2001. |
| 1. | Geiger, C. L. Ground Water Contamination with Chlorinated Solvents, Problems and Solutions. Chemistry Department, University of South Florida, Tampa, FL, October 4, 2001. |

## Research and Conference Presentations

|  |  |
| --- | --- |
| 176. | Cherie L. Yestrebsky. Novel Degradation Methods for Environmental Contaminants: Kinetics and Mechanisms through to Development of Industrial Remediation Technologies. Florida Southern College, Lakeland Florida. October 9, 2014. |
| 175. | Cherie L. Yestrebsky. Flipping a large general chemistry class: Comparisons of results with traditional lecture and suggestions for success. 2014 Biennial Conference on Chemical Education. Grand Valley State University, Allendale, Michigan. August 3-7, 2014. |
| 174. | Cherie L. Yestrebsky, Erin Saitta. Transforming the Freshman Chemistry Laboratory Program at a Large Research University. 2014 Biennial Conference on Chemical Education. Grand Valley State University, Allendale, Michigan. August 3-7, 2014. |
| 173. | Cherie L. Yestrebsky, C. A. Clausen, Douglas Tomlin. Hydrodefluorination of Decafluoropentane in Aqueous Media using Mg-Pd/C. 97th Canadian Chemical Conference and Exhibition. May 2014, Vancouver, B. C., Canada. |
| 172. | Cherie L. Yestrebsky, C. A. Clausen, Marc Elie. Degradation of Polycyclic Aromatic Hydrocarbons and their Oxygenated Derivatives Using Magnesium and a Co-solvent System. 97th Canadian Chemical Conference and Exhibition. May 2014, Vancouver, B. C., Canada. |
| 171. | Juan C. Rueda, Andrew A. Randall, Chuck Davis, Carolina Franco, Cherie L. Yestrebsky. Toxicity Studies of Akga/Hydrazines Degradation Byproducts and Their Compatibility with Sewage Treatment Plant Operation. JANNAF 2014, Charleston S.C., May 2014. |
| 170. | Carolina Franco, Chuck Davis, Rodolfo Martinez, David Glass, and Cherie L. Yestrebsky. Laboratory Study of Alpha-Ketoglutacric Acid Treatment of Hypergolic Fuel Waste Streams. JANNAF 2014, Charleston S.C., May 2014. |
| 169. | Carolina Franco, Chuck Davis, Rodolfo Martinez, David Glass, and Cherie L. Yestrebsky. Investigation of Interferences in the Degradation of Hydrazine and Monomethylhydrazine. JANNAF 2014, Charleston S.C., May 2014. |
| 168. | Edwards, Erin K., Cherie Yestrebsky, Erin K. H. Saitta. Transforming the General Chemistry Program at a Large Research University. World Conference on Educational Sciences, University of Malta, Malta, February 2014. |
| 167. | Yestrebsky, Cherie L. Flipping the Classroom in a Large Chemistry Class-Research University Environment. World Conference on Educational Sciences, University of Malta, Malta, February 2014. |
| 166. | Novaes-Card, S.E.; Clausen, Christian A.; Yestrebsky, Cherie L. Optimization of a Two-Step Soil Washing Process for Extraction and Dechlorination of Polychlorinated Biphenyls. Presented at the 89th Annual Florida Annual Meeting and Exhibition of the American Chemical Society Florida Section, Palm Harbor, FL, May 9-11, 2013. |
| 165. | Novaes-Card, Simone E.; Clausen, C.A.; Yestrebsky, C.L. Towards Greener Soil Washing: A Two-Step Process for Extraction and Dechlorination of Polychlorinated Biphenyls. Presented at the 245th American Chemical Society National Meeting & Exposition, New Orleans, LA, April 7-11, 2013. |
| 164. | Novaes-Card, Simone E.; Groenevelt, H.; Secker, S.; Clausen, C.A.; Yestrebsky, C.L.  A Field Study on the Removal and Destruction of Polychlorinated Biphenyls from Vertical Painted Surfaces. Presented at the 49th Annual Florida Pesticide Residue Workshop/North American Chemical Residue Workshop, St. Petersburg Beach, FL, July 14-18, 2012. |
| 163. | Patel, J., C. Franco, D.J. Diaz. An Innovative Method for Oxidizing Hydrogen Sulfide using Hydroxyl Radicals. Presented at the Odors and Air Pollutants, WEF Meeting, Louisville, KY, April 15-18, 2012. |
| 162. | Franco, J., R. Martinez, D. Glass, C. Davis, C.A. Clausen, C.L. Yestrebsky. Potential Treatment of Toxic Hypergolic Fuels Waste Streams. Presented at the 89th FAME/ACS Meeting, Palm Harbor, FL, May 9-11, 2013. |
| 161. | Patel, J., Josh Knorr, Amit Kumar, Diego Díaz, Cherie Yestrebsky. Non-enzymatic amperometric hydrogen peroxide sensor for biological applications, Presented at the ACS 245th National Meeting, New Orleans, FL, April 7-11 2013. (*Poster*) |
| 160. | Patel, J., Josh Knorr, Amit Kumar, Diego Díaz, Cherie Yestrebsky Non-enzymatic amperometric hydrogen peroxide sensor for biological applications, Presented at  the Graduate Research Forum, University of Central Florida. Orlando, FL, April 2013. |
| 159. | Williamson, R., C. L. Geiger, C. A. Clausen. Feasibility Study on the Use of *Pseudomonas putida* and *Psuedomonas fluorescens* for the Biodegradation of Oxygenated Polyaromatic Hydrocarbons. Presented at the 245st ACS   Meeting, New Orleans, LA, April 7-11, 2013. |
| 158. | Williamson, R., C. L. Geiger, C. A. Clausen. Feasibility Study on the Use of Pseudomonas putida and Psuedomonas fluorescens for the Biodegradation of Oxygenated Polyaromatic Hydrocarbons. Presented at the UCF Showcase of Undergraduate Research Excellence, Orlando, FL, April 4, 2013. |
| 157. | Legron-Rodriguez, T., C. L. Yestrebsky, C. Clausen. Development of an *in situ* Remediation Technology for PCB Contaminated Concrete. Presented at the University of Central Florida 10th Graduate Research Forum. April 2, 2013. |
| 156. | Bookstaver, K., C. Clausen, C. L. Yestrebsky. Green Solvents for Precision Cleaning Aerospace Components. Presented at the UCF Showcase of Undergraduate Research Excellence, Orlando, FL, April 4, 2013. |
| 155. | Hernandez, V., C. A. Clausen, C. L. Yestrebsky, DDT Dechlorination with Magnesium and Acidified Alcohol.Presented at the UCF Showcase of Undergraduate Research Excellence, Orlando, FL, April 4, 2013. |
| 154. | Hernandez, V., C. A. Clausen, C. L. Yestrebsky, DDT Dechlorination with Magnesium and Acidified Alcohol.Presented at the 245st ACS   Meeting, New Orleans, LA, April 7-11, 2013. |
| 153. | Legron-Rodriguez, T., Clausen, C., Yestrebsky, C. Laboratory Studies for the Development of an *in situ* Remediation Technology for Polychlorinated Biphenyl Contaminated Concrete. Presented at the 89th Florida Annual Meeting and Exposition of the ACS, Palm Harbor, FL, May 9-11, 2013. |
| 152. | Elie, M.R.; Geiger, C.L.; Clausen, C. Activated Magnesium/ethanol System for the Degradation of Polycyclic Aromatic Hydrocarbons. 76th Annual Florida Academy of Sciences Meeting (Tampa, FL), 2012. |
| 151. | Novaes-Card, S.E.; Groenevelt, H.; Secker, S.; Yestrebsky, C.L.; Clausen, C.A. 2012 Proceedings Booklet, 2012 Graduate Research Forum, Orlando, FL, April 3, 2012; University of Central Florida: Orlando, FL, 2012. |
| 150. | P. Maloney, C. Clausen, C. Geiger, J.W. Quinn, and R.W. DeVor. Degradation of Various Organochlorine Pesticides by Microscale Magnesium and Acidified Ethanol: Proof of Concept and Potential Field Applications. Platform presentation, 8th International Conference on Remediation of Chlorinated and Recalcitrant Compounds. May 21-24, 2012. (Invited) |
| 149. | A. Gerszuny, A.; Legron-Rodriguez, T.; Yestrebsky, C. L. Degradation of Chlordane Using Magnesium and Acidified Alcohol. Presented at the 2012 Showcase of Undergraduate Research Excellence, Orlando, FL, April, 2012. |
| 148. | C.L. Geiger, C.A. Clausen, S. Novaes-Card, C. Acevedo Parra, J.W. Quinn, G. Booth. Degrading Aroclor 1248 and 1260 in Wet and Dry Soils from a Contaminated Site. The Sixth Battelle Sediment Conference. New Orleans, February, 2011. |
| 147. | T. Krug, S. O’Hara, J. Quinn, C. Clausen, C. Geiger, N. Ruiz. Activated Magnesium for Treatment of PCBs in Building Materials. The Sixth Battelle Sediment Conference. New Orleans, February, 2011. |
| 146. | T. Krug, S. O’Hara, C. Geiger, N. Ruiz, H. Groenevelt and B. Steets. Source Control of PCB in Building Materials to Mitigate Stormwater Impacts. CASQA Seventh Annual Stormwater Conference. September 26 - 28, 2011 in Monterey, California. |
| 145. | Elie, M.R.; Geiger, C.L.; Clausen, C. Remediation of Environmental Contaminants with Active Metal Particles in Liquid Membranes Systems. Platform presentation, Material Research Society (MRS) Fall Meeting (Boston, MA), 2011. (Invited) |
| 144. | Fidler-Albo, R., C. L. Geiger, T. Legron, C. A. Clausen. Development of a Remediation Technology for Energetic Compounds (TNT, RDX, Nitrocellulose, and TATP). Battelle 7th International Conference on Remediation of Chlorinated and Recalcitrant Compounds 2006, Monterey, CA, May 23-28, 2010. |
| 143. | Novaes-Card, S., C. L. Geiger, P. Maloney, C. Clausen. Magnesium and Acetic Acid/Ethanol Solution for Degradation of Polychlorinated Biphenyls: From Laboratory Kinetics to Application. Battelle 7th International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA, May 23-28, 2010. |
| 142. | Saitta, E.H. Engaging STEM: A case study in chemistry education and community partnerships. Accepted to be presented at 21st Biennial Conference on Chemical Education, Denton TX. August 2010 |
| 141. | Saitta, E.H.; Bowdan, M.; Geiger, C. Engaging Stem: Using Emerging Technologies To Initiate Service Learning Into University Chemistry Courses. FAME conference, Tampa, FL. May 2010 |
| 140. | Saitta, E. H.; Gittings, M.; Geiger, C. Learning Dimensional Analysis through Cooperatively Working with Manipulatives. Chemistry Education Research Graduate Student Conference, Oxford, OH. June 2009 |
| 139. | Geiger, C. L. Environmental Remediation from a Chemistry Perspective: Material Development to Demonstration and Back to Mechanisms. University of Guelph, Guelph Ontario, Canada, September 28, 2009. |
| 138. | Holland, E., C. L. Geiger. Degradation of polychlorinated biphenyls through the use of an activated metallic treatment system. Presented at Florida Academy of Science, Saint Leo, FL . March 2009. |
| 137. | Saitta, E. H, C. L. Geiger Learning Dimensional Analysis Through Cooperatively Working with Manipulatives. Poster presentation at Chemistry Education Research Graduate Student Conference, Oxford, OH. June, 2009. |
| 136. | Novaes-Card, Simone E., C. L. Geiger, and C. A. Clausen. Crystalline Silicotitanates for Removal of  Sr and Cs from High-Level Radioactive Liquid Waste. Presented at 73rd Annual Meeting of the Florida Academy of Sciences, St. Leo, Florida, March 20, 2009. |
| 135. | Fidler A., R., Legron, Tamra, Geiger, C.L., Clausen, C.A., Reductive Metal Systems for the Degradation of Energetic Materials.  Florida Society of Environmental Analysts (FSEA) Semi-Annual Meeting.  Palm Beach, FL. October, 2009. |
| 134. | Novaes-Card, S.E., Maloney, P.R., Clausen, C.A., Geiger, C.L. Sorptive Removal and Degradation of PCBs from an Oil Matrix Using Activated Alumina and AMTS. Presented at 2009 Fall Meeting and Technical Session of the Florida Society of Environmental Analysts, Palm Beach Gardens, Florida, October 28-30, 2009. |
| 133. | Geiger, C., and C. Clausen. Use of Liquid Membrane Technologies to Enhance the Effectiveness of Zero-Valent Particles for Environmental Remediation. Technical University of Crete, Chania, Crete, Greece. June 11, 2008. |
| 132. | Clausen, C.A., C.L. Geiger, R. Fidler, M.E. Sigman. Degradation of TATP, TNT, and RDX using Mechanically Alloyed Bimetals. Partners in Environmental Technology, Meeting DoDs Environmental Challenges. Washington, D.C. December 2-4, 2008. |
| 131. | O’Hara, S., T. Krug, J. Quinn, C. Clausen, C. Geiger, J. Captain, N. Ruiz. Application of a solvent emulsion technology for PCB removal from older structures on DoD facilities. Partners in Environmental Technology, Meeting DoDs Environmental Challenges. Washington, D.C. December 2-4, 2008. |
| 130. | Geiger, Cherie L. Water Pollution. A presentation for Café Scientifique. Winter Park, FL. September 3, 2008. |
| 129. | Maxwell, D., C.A. Clausen, K. Milum, R. DeVor, C.L. Geiger. Remediation of heavy metals in sediments using emulsified zero valent metals. The ConSoil 2008 Meeting, Milan Italy, June, 3-6, 2008. |
| 128. | Fidler, Rebecca, Christian A. Clausen, Michael E. Sigman, Cherie L. Geiger. Using mechanically alloyed metals to degrade TATP, TNT, and RDX. The ConSoil 2008 Meeting, Milan Italy, June, 3-6, 2008. |
| 127. | Fidler, R., C.L. Geiger, C.A. Clausen, M.E. Sigman. Degradation of TATP, TNT, and RDX using mechanically alloyed metals. Florida Society of Environmental Analysts (FSEA) Annual Meeting, St. Petersburg FL. May 25, 2008. Regional |
| 126. | Clausen, C.A., C.L. Geiger. Environmental Applications of Nanoscale and Microscale Reactive Metal Particles. 235th ACS Meeting, New Orleans, LA, United States, April 6-10, 2008. |
| 125. | DeVor, R., P. Maloney, C.L. Geiger, C.A. Clausen, S. Elsheimer, and K.Carvalho. A proposed mechanism for the radical dechlorination of PCBs using microscale MgPd in methanol. 235th ACS Meeting, New Orleans, LA, United States, April 6-10, 2008. |
| 124. | Fidler, R., C.L. Geiger, C.A. Clausen, M.E. Sigman. Degradation of TATP, TNT, and RDX using mechanically alloyed metals. 235th ACS Meeting, New Orleans, LA, United States, April 6-10, 2008. |
| 123. | Holland, E.K., R.W. Devor, M.J. Gittings, P.R. Maloney, C.L. Geiger, C.A. Clausen and J.W. Quinn. In-situ remediation of polychlorinated biphenyls using a bimetallic treatment system on various painted surfaces. Florida Academy of Sciences 71st Annual Meeting, Jacksonville University, Jacksonville, FL. March 14-16, 2008. Regional |
| 122. | Gittings, M., E. Holland, R. Devor, C. Geiger, C. Clausen and J. Quinn. Polychlorinated biphenyl degradation by use of Bimetallic Treatment System (BTS). Florida Academy of Sciences 71st Annual Meeting, Jacksonville University, Jacksonville, FL. March 14-16, 2008. Regional |
| 121. | Fidler, R., C.L. Geiger, C.A. Clausen, M.E. Sigman. Degradation of TATP, TNT, and RDX using mechanically alloyed metals. Science Foundation Annual GK12 Conference, Washington D.C. February 29, 2008. |
| 120. | Clausen, C., C. Geiger, T. Mills and J. Sakozw. Dissemination and performance Testing of Nanometer-sized Particles as IR Obscurants. U.S. Army Edgewood Chemical and Biological Command Obscurants 2007 Symposium. Cocoa Beach FL. May 21-23, 2007. |
| 119. | Halle, B., K. Knighton, C. Geiger and C. Clausen. Dehalogenation of PCBs with Zero Valent Bimetallic Emulsion Systems. Florida Academy of Sciences 71st Annual Meeting, St. Petersburg, FL. March, 2007. |
| 118. | DeVor, R., B. Aitken, E. Holland, P. Maloney, C. Geiger, C. Clausen, K. Knighton. Kinetics and Mechanistic Study of the Dechlorination of Three Monochlorobiphenyl Congeners Using Mechanically Alloyed Palladized Magnesium. Florida Academy of Sciences 71st Annual Meeting, St. Petersburg, FL. March, 2007. |
| 117. | Geiger, C.L., C. A. Clausen, J. Quinn, S. O’Hara, T. Krug, J. Wolters, M. Corbin, Field Scale Application of Emulsified Zero Valent nanoscale Iron for Remediation of DNAPL. The 223rd Meeting of the American Chemical Society, March 23-29, 2007. |
| 116. | DeVor, R.W., K.M. Milum, B. Aitken, R. Calabro, M. Hampton, C.L. Geiger, C.A. Clausen. Heavy Metal Remediation of Soil and Sediments by Application of Emulsified Liquid Membrane Technology. Fourth International Conference on Remediation of Contaminated Sediments, Savanah, GA, Jan. 22-25, 2007. |
| 115. | DeVor, R., B. Aitken, E. Holland, P. Maloney, C.A. Clausen, C.L. Geiger. Dechlorination of PCBs in Contaminated Sediments Using a Bimetallic Treatment System (BTS). Fourth International Conference on Remediation of Contaminated Sediments, Savanah, GA, Jan. 22-25, 2007. |
| 114. | Geiger, C.L., C. A. Clausen, J. Quinn, S. O’Hara, T. Krug, J. Wolters, M. Corbin. EZVI Use for Remediation of DNAPL. 4th Annual European Conference on Oxidation and Reduction. Amsterdam, the Netherlands. October 16-18, 2007. |
| 113. | Geiger, C.L., C.A. Clausen, D. Maxwell, K. Milum, J. Quinn. Bench-Scale Demonstration Of The Removal Of Heavy Metals From Solution And Soils Using Emulsified Zero Valent Metals. 4th Annual European Conference on Oxidation and Reduction. Amsterdam, the Netherlands. October 16-18, 2007. |
| 112. | Fidler, R., M. Cromwell, C. Robayo, C.A. Clausen, C.L. Geiger, M.E. Sigman. Degradation of Triacetone Triperoxide using Mechanically Alloyed Bimetals. Florida Academy of Sciences 71st Annual Meeting, St. Petersburg, FL. March, 2007. |
| 111. | Geiger, C.L., K. Milum, C.A. Clausen, J.W. Quinn. Using Kow Values and Solvent/Iron Degradation Kinetics as a Predictive Tool for Solvent Degradation Efficiency with Emulsified Zero-Valent Iron. Remediation of Chlorinated and Recalcitrant Compounds 2006, Monterey, CA, May 22-26, 2006. |
| 110. | Berger , C.M., C.L. Geiger, C.A. Clausen, A.M. Billow, J.W. Quinn, K.B. Brooks. Evaluating Trichloroethylene Degradation Using Differing Nano- and Micro-Scale Iron Particles. Remediation of Chlorinated and Recalcitrant Compounds 2006, Monterey, CA, May 22-26, 2006. |
| 109. | DeVor, R.W., K.M. Milum, C.L. Geiger, C.A. Clausen, J.W. Quinn. Remediation of Heavy Metal Contamination Using Emulsified Magnesium Particles. Remediation of Chlorinated and Recalcitrant Compounds 2006, Monterey, CA, May 22-26, 2006. |
| 108. | Aitken, B., C. Geiger, C. Clausen, J. Quinn. Variables Associated With Mechanical Alloying of Bimetals for PCB Remediation. Remediation of Chlorinated and Recalcitrant Compounds 2006, Monterey, CA, May 22-26, 2006. |
| 107. | Quinn, J.W., K.B. Brooks, C.L. Geiger, C.A. Clausen, and K. Milum. Application of Emulsified Zero-Valent Iron to Marine Environments. Remediation of Chlorinated and Recalcitrant Compounds 2006, Monterey, CA, May 22-26, 2006. |
| 106. | Stewart, N.A., C.L. Geiger, C.A. Clausen. Physical Properties Of Metallic Iron And Their Influence On Degradation Kinetics Of Trichloroethene. 71st Annual Meeting of the Florida Academy of Sciences, Florida Institute of Technology, Melbourne Florida, March 13-15, 2006. |
| 105. | Devor, R., B. Aitken, R. Calabro, D. Maxwell, C.A. Clausen, C.L. Geiger. Degradation Mechanism And Kinetics Of A Polychlorobiphenyl Congener In The Presence Of Mechanically Alloyed Palladized Magnesium. 71st Annual Meeting of the Florida Academy of Sciences, Florida Institute of Technology, Melbourne Florida, March 13-15, 2006. |
| 104. | Aitken, B., R. Devor, R. Calabro, D. Maxwell, C.A. Clausen, C.L. Geiger. Field Study Results For Application Of Bimetal/Solvent Paste For Extraction And Degradation Of PCBs From A Painted Structure. 71st Annual Meeting of the Florida Academy of Sciences, Florida Institute of Technology, Melbourne Florida, March 13-15, 2006. |
| 103. | Maxwell, D., C.L. Geiger, C.A. Clausen, J. Quinn, K. Milum, R. Devor. Emulsified Microscale And Nanoscale Metal Particles For Environmental Remediation Of Heavy Metals. 71st Annual Meeting of the Florida Academy of Sciences, Florida Institute of Technology, Melbourne Florida, March 13-15, 2006. |
| 102. | Calabro, R., C.L. Geiger, K. Milum, C.A. Clausen and J.W. Quinn. A Predictive Tool For Solvent Degradation Efficiency With Emulsified, Nano-Scale, Zero-Valent Iron: Kow Values And Solvent/Iron Degradation Kinetics. 71st Annual Meeting of the Florida Academy of Sciences, Florida Institute of Technology, Melbourne Florida, March 13-15, 2006. |
| 101. | Clausen, C., C. Geiger and T. Mills. Field Scale Tests of New High Attenuation IR Screening Materials. 2006 Scientific Conference on Obscuration and Aerosol Research, Clarkson University, May 22-24, 2006. |
| 100. | Mills, T., C. Clausen, and C. Geiger. The Development of New High Attenuation IR Aerosol Screening materials. 2006 Scientific Conference on Obscuration and Aerosol Research, Clarkson University, May 22-24, 2006. |
| 99. | Stewart, N., C. L. Geiger, C. A. Clausen. Reaction Rates for the Dechlorination of Trichloroethene Using Various Forms of Nanoscale and Microscale Zero Valent Iron. 231st ACS Meeting, Atlanta, GA, March 26-30, 2006. 231st ACS Meeting, Atlanta, GA, March 26-30, 2006. |
| 98. | DeVor, R., C. L. Geiger, C. A. Clausen, J. Quinn, K. M. Milum. Emulsified Nanoscale Iron Particles for Environmental Remediation of Heavy Metals. 231st ACS Meeting, Atlanta, GA, March 26-30, 2006. |
| 97. | Geiger, C.L., C. A. Clausen, K. M. Milum, J. Quinn. Kow Values and Solvent/Iron Degradation Kinetics. A Predictive Tool for Solvent Degradation Efficiency with Emulsifid Zero-Valent Iron. 231st ACS Meeting, Atlanta, GA, March 26-30, 2006. |
| 96. | Halle, B.R., L. Talala, R. DeVor, K. M. Carvalho-Knighton, C. L. Geiger, and C. A. Clausen. Dehalogenation of PCBs with Zero-Valent Bimetallic Systems 231st ACS Meeting, Atlanta, GA, March 26-30, 2006. |
| 95. | Colcord, T., C. King, K. M. Calvarho-Knighton, C. L. Geiger and C. A. Clausen. TNT Remediation with Zero-Valent Iron Emulsions, 231st ACS Meeting, Atlanta, GA, March 26-30, 2006. |
| 94. | Quinn, J., C.L. Geiger, C.A. Clausen. Field Performance of Nanoscale Emulsified Zero-Valent Iron U.S. EPA Workshop on Nanotechnology for Site Remediation, Washington, DC, October 20 – 21, 2005 |
| 93. | Clausen, C. A. and C. L. Geiger, Nanocatalysis for Chemical/Biological Defense. Nanotechnology workshop for Unconventional Concepts in Homeland Security, Washington D.C., September 20-21, 2005. |
| 92. | Bright, M., S. Bullock, T. Mills, C. Clausen, C. Geiger and J. Lomness. Large-Scale Testing Methodologies for Obscuration Aerosols. Presented for Scientific Conference on Obscurants and Aerosols 2005 Conference, Aberdeen Maryland. June 2005. |
| 91. | Bright, M., S. Bullock, T. Mills, C. Clausen, C. Geiger and J. Lomness. The Synthesis and Performance of IR Obscuration Nano-scale Powder Aerosols Presented for Scientific Conference on Obscurants and Aerosols 2005 Conference, Aberdeen Maryland. June 2005. |
| 90. | Geiger. C. L., What is Being Done to Encourage Women with Chemistry Doctorates to Choose Academia? Florida Academy of Sciences 69th Annual Meeting. Tampa, FL. 2005. |
| 89. | Milum, K. M., C. L. Geiger, C. A. Clausen, Brian Aitken, R. Devor, J. Quinn. In Situ Remediation of Heavy Metals Using Emulsified Nano- or Micro- scale Metal Particles. Florida Academy of Sciences 69th Annual Meeting. Tampa, FL. 2005. |
| 88. | Aitken, Brian, C. L. Geiger, C. A. Clausen, K. M. Milum, J. Quinn, K. Brooks. Variables Involved in Mechanical Alloying of Bimetals for Remediation of Polychlorinated Biphenyls. Florida Academy of Sciences 69th Annual Meeting. Tampa, FL. 2005. |
| 87. | Talalaj, L., R. Feuillebois, K. M. Carvalho-Knighton, C. L. Geiger, C. A. Clausen. Biological Effects of Emulsions on Lemna Minor. Florida Academy of Sciences 69th Annual Meeting. Tampa, FL. 2005. |
| 86. | King, C., K. M. Carvalho-Knighton, C. L. Geiger, C. A. Clausen. Stability of Emulsions for TNT Remediation. Florida Academy of Sciences 69th Annual Meeting. Tampa, FL. 2005. |
| 85. | Halle, B. R., K. M. Carvalho-Knighton, C. L. Geiger, C. A. Clausen. Dechlorination of PCBs in solution with Pd/Mg bimetallic systems. Florida Academy of Sciences 69th Annual Meeting. Tampa, FL. 2005. |
| 84. | K. Milum, C.L. Geiger, C.A. Clausen, J. Quinn. The Use of Nano-scale Iron Particles for Removal of Heavy Metals from Soils and Sediments. American Chemical Society Meeting, Anaheim, CA. March 2005. |
| 83. | Milum, K., C.L. Geiger, C. A. Clausen, J. Quinn. Removal of Heavy Metals Contaminants Using Emulsified Nano-Scale Iron Particles. Remediation of Soils and Sediments, New Orleans, LA., February 2005. |
| 82. | Milum, K., C.L. Geiger, C.A. Clausen, J. Quinn. In Situ Heavy Metal Contaminant Removal Using Emulsified Iron. Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA. May 2004. |
| 81. | Quinn, J., S. O’Hara, T. Krug, C.L. Geiger, C.A. Clausen. Evaluating the Distribution of Emulsified Zero-Valent Iron for Four Different Injection Techniques. Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA. May 2004. |
| 80. | O’Hara, S., T. Krug, J. Quinn, C.L. Geiger, C.C. Coon, C.A. Clausen. Performance Evaluation of Dehalogenation of DNAPLs Using Emulsified Zero-Valent Iron. Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA. May 2004. |
| 79. | Geiger, C.L., C. Clausen Coon, C.A. Clausen, K. Brooks, C. Huntley, J. Quinn, S. O’Hara, T. Krug, D. Major. Optimization Of Emulsified Zero-Valent Iron Particles For Reduction Of DNAPL Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA. May 2004. |
| 78. | Geiger C.L., T. Lipsett. In Situ Treatment for Soils and Sediments Contaminated with DNAPL, PCBs and Heavy Metals. Faculty Partnerships in Research and Education Conference. Kennedy Space Center FL, July 2002. |
| 77. | Geiger, C.L., S. O’Hara, C. Clausen, J. Quinn. Development and Demonstration of Emulsified Zero Valent Iron (EZVI). NASA/U.S. Environmental Protection Agency (EPA) Remediation Technology Tour & Demo. Nov. 7, 2002. Kennedy Space Center, FL. Tour and Lecture Televised on Channel 2 (WESH) and Channel 6 (WKMJ) News. |
| 76. | Clausen, C.A., C.L. Geiger, D.R. Reinhart, K. Brooks, C.M. Clausen, D. Major, J. Quinn. The In Situ Treatment of DNAPL with Zero-Valent Iron Emulsions. RTDF Meeting, Orlando FL, June 2002. |
| 75. | Geiger, C.L., C.A. Clausen, D.R. Reinhart, A. Sonawane, C.M. Clausen, J. Quinn. The Use of Ultrasound to Restore the Dehalogenation Activity of Iron in Permeable Reactive Barriers. Battelle International Conference on Chlorinated and Recalcitrant Compounds, Monterey, CA, May 2002. |
| 74. | Geiger, C.L., C.A. Clausen, D.R. Reinhart, K. Brooks, C.M. Clausen, D. Major, S. O’Hara, T. Krug, J. Quinn. The In Situ Treatment of DNAPL with Zero-Valent Iron Emulsions. Battelle International Conference on Chlorinated and Recalcitrant Compounds, Monterey, CA, May 2002. |
| 73. | Geiger, C. L., C. A. Clausen, D. R. Reinhart, C. M. Clausen, and J. Quinn. Field Application of Ultrasound to Iron-Containing PRBs. Battelle International Conference on Chlorinated and Recalcitrant Compounds, Monterey, CA, May 2002. |
| 72. | Filipek, Laura B., C. Clausen Coon, C.L. Geiger, C.A. Clausen, J. Quinn, R. Devor. Dechlorination of PCBs in Solution by Pd/Fe Bimetallic Emulsions. ACS New Orleans Meeting, Poster Presentation and chosen for SCIMIX presentation, March 2003. |
| 71. | Filipek, Laura B., C. Clausen Coon, C.L. Geiger, C.A. Clausen, J. Quinn, R. Devor. Dechlorination of Polychlorinated Biphenyls in Solution by Pd/Fe Bimetallic Emulsions. Florida Academy of Sciences, UCF, March 2003. |
| 70. | C.L. Geiger, C.A. Clausen, C. Clausen Coon, K.B. Brooks, C.A. Huntley, L.B. Filipek, R. Devor, T.A. Krug, S. O’hara, D. Major, and J. Quinn. Remediation Of DNAPLS Using Emulsified Zero-Valent Iron: Laboraotry And Field Results. Battelle International Conference on Chlorinated and Recalcitrant Compounds, Monterey, CA, May 2002. |
| 69. | Burrows, S., R. Farley, J. Karph, T. McGovern, C. L. Geiger. Re-creating an effective ACS Student Affiliates Chapter. Presented at the 223 ACS Meeting in the Environmental Chemistry Session, Orlando, FL., April 2002. |
| 68. | Clausen, C.M., Filipek, L., Geiger, C.L., Clausen, C.A. Kinetic Studies of Nanoscale and Microscale Zero-Valent Iron Emulsions. Presented at the 223 ACS Meeting in the Environmental Chemistry Session, Orlando, FL., April 2002. |
| 67. | Stewart, N., Clausen, C.A., Geiger, C.L., Clausen, C.M. Dehalogenation studies of Different Types and Forms of Zero-Valent Iron. Presented at the 223 ACS Meeting in the Environmental Chemistry Session, Orlando, FL, April 2002. |
| 66. | Huntley, C., Devor, R., Clausen, C.A., Geiger, C.L. Physical Properties of Nanoscale and Microscale Zero-Valent Iron Emulsions. Presented at the 223 ACS Meeting in the Environmental Chemistry Session, Orlando, FL, April 2002. |
| 65. | Clausen, C.M., Filipek, L., Geiger, C.L., Clausen, C.A., Kinetic Studies of Nanoscale and Microscale Zero-Valent Iron Emulsions. Presented at the 223 ACS Meeting in the SCIMIX session, Orlando, FL., April 2002. |
| 64. | Stewart, N., Clausen, C.A., Geiger, C.L., Clausen, C.M., Dehalogenation studies of Different Types and Forms of Zero-Valent Iron. Presented at the 223 ACS Meeting in the SCIMIX Session, Orlando, FL, April 2002. |
| 63. | Clausen, C.A. and Geiger, C.L. The Development of New IR Obscuration Materials from Nanowires. Presented at the U.S. Army’s Workshop on Nanomaterials Washington, D.C., March 2002. |
| 62. | Geiger, C.L., Clausen, C.A., Brooks, K. Huntley, C., Clausen, C.L., Filipek, L., DNAPL Remediation Using Microscale and Nanoscale Iron Emulsions. The 53rd ACS Southeast Regional Meeting, Savannah, GA., September 2001. |
| 61. | Clausen, C.L., C.L. Geiger, C.A. Clausen, D.R. Reinhart, Demonstrated Effects of Ultrasound to Regenerate Permeable Reactive Iron Barriers. The Florida American Chemical Society Annual Meeting, May 2001. |
| 60. | Brooks, K., C.L. Geiger, C.A. Clausen, DNAPL Remediation Using Emulsified Iron Particles. The Florida American Chemical Society Meeting, May 2001. |
| 59. | Stewart, N., C.L. Geiger, C.A. Clausen, K. Brooks. Kinetics of TCE Degradation Using Iron from Several Different Sources and Under a Variety of Conditions. The Florida American Chemical Society Annual Meeting, Orlando, FL., May 2001. |
| 58. | Berrios, T., C.L. Geiger, C.A. Clausen, K. Brooks, C.L. Clausen Environmentally Acceptable Iron Emulsion for TCE Degradation. The Florida American Chemical Society Annual Meeting Orlando, Fl., May 2001. |
| 57. | Geiger, C. L., In-Situ Remediation of Groundwater Contaminated with TCE. Seminar presentation for the Chemistry Department, University of Central Florida, Orlando, FL, May, 2001. |
| 56. | Clausen, C. L., C. L. Geiger, C. A. Clausen, D. R. Reinhart. Demonstrated Effects of Ultrasound to Regenerate Permeable Reactive Iron Barriers. The Florida American Chemical Society Annual Meeting, March 2001. |
| 55. | Brooks, K., C. L. Geiger, C. A. Clausen. DNAPL Remediation Using Emulsified Iron Particles The Florida American Chemical Society Annual Meeting, March 2001. |
| 54. | Filipek, L., C. L. Geiger. Is Chlordane Still in Treated Soils? The Florida American Chemical Society Annual Meeting, March 2001. |
| 53. | Stewart, N. C. L. Geiger, C. A. Clausen, K. Brooks. Kinetics of TCE Degradation Using Iron from Several Different Sources and Under a Variety of Conditions. The Florida American Chemical Society Annual Meeting, March 2001. |
| 52. | Berrios, T., C. L. Geiger, C. A. Clausen, K. Brooks, C. L. Clausen. Environmentally Acceptable Iron Emulsion For TCE Degradation. The Florida American Chemical Society Annual Meeting, March 2001. |
| 51. | DeVor, R., J. Kesselring and C. L. Geiger. An Alternative Extraction Method For Lead In Soils. The Florida American Chemical Society Annual Meeting, March 2001. |
| 50. | Clausen, C. A., C. L. Geiger, K. Brooks, R. DeVor. Using Iron Emulsions to Remediate DNAPL. The Florida Academy of Sciences 65th Annual Meeting, March 2001. |
| 49. | Geiger, C. L., C. A. Clausen, D. R. Reinhart, C. L. Clausen, K. Brooks. Using Ultrasound to Increase the Reactivity of Iron in Permeable Treatment Walls. The Florida Academy of Sciences 65th Annual Meeting, March 2001. |
| 48. | Filipek, L., C. L. Geiger. Persistance of Chlordanes Around Homes in the Central St. Johns River Basin. The Florida Academy of Sciences 65th Annual Meeting, March 2001. |
| 47. | Berrios, T., C. L. Geiger, C. A. Clausen, K. Brooks, C. L. Clausen. Synthesis of an Environmentally Acceptable Iron Emulsion For TCE Degradation. The Florida Academy of Sciences 65th Annual Meeting, March 2001. |
| 46. | Geiger, C. L., Clausen, C.A., Ofori, E., Restar-Recine, T., Hale, J. The Synthesis and Characterization of New, Inexpensive, Environmentally-Safe MMW Screening Materials. The Scientific Conference on Obscuration and Aerosol Research, 2000. Aberdeen Proving Ground, Maryland. June 27-29, 2000. |
| 45. | Geiger, C. L., C. A. Clausen, D. R. Reinhart, N. Ruiz, K. Farrell, N. Lau, J. Quinn. Sonication as a Technique for Restoring the Efficiency of Reactive Iron in Permeable Treatment Walls. Florida Academy Of Sciences 64th Annual Meeting, Melbourne, FL, March 9-11, 2000. |
| 44. | Brooks, K. B., C. A. Clausen, C. L Geiger, D. Hurly, D. R. Reinhart. Dehalogenation of Chlorinated DNAPL Pools In-Situ Using Emulsified Nanoscale Iron Particles. Florida Academy Of Sciences 64th Annual Meeting, Melbourne, FL, March 9-11, 2000. |
| 43. | Kesselring, J., V.N. Prasad, C.L. Geiger, C.A. Clausen, D. Reinhart. The Use of Electrokinetic Remediation for In-Situ Remediation of Soils Contaminated with Lead. Florida Academy Of Sciences 64th Annual Meeting, Melbourne, FL, March 9-11, 2000. |
| 42. | Gallardo, M. T., C.L Geiger, And D.F. Martin. Isolation and Characterization of Bioactive Compounds from Typha domingensis. Florida Academy Of Sciences 64th Annual Meeting, Melbourne, FL, March 9-11, 2000. |
| 41. | Reinhart, D. R., M. Chopra, C. Clausen, C. Geiger, and J. Quinn. Permeable Reactive Barrier Installation Using Deep Soil Mixing. RTDF Permeable Reactive Barriers Action Team Meeting, Melbourne FL, February 16-17, 2000. |
| 40. | Geiger, C. L., C. A. Clausen, D. R. Reinhart, N. Ruiz, P. Toy, N. Lau Chan and J. Quinn. Laboratory and Field Studies on the Use of Ultrasound to Enhance or Restore Dechlorination Rates of Permeable Treatment Walls Containing Iron. American Institute of Chemical Engineers International Conference, Atlanta, GA, March 5-9, 2000. |
| 39. | Sfeir, H., A. Randall, D. Reinhart, M. Chopra, C. Clausen, C. Geiger. Biotic Attenuation and Zero-Valent Iron Permeable Barrier Technology. Battelle 2nd Annual Remediation of Chlorinated and Recalcitrant Compounds, Monterey CA, May 22-25, 2000. |
| 38. | Clausen, C. A., C. L. Geiger, D. R. Reinhart, N. Ruiz, K. Farrell, P. Toy, N. Lau Chan, M. Cannata, S. Burwinkle. Ultrasonic Regeneration Of Permeable Treatment Walls: Laboratory/Field Studies. Battelle 2nd Annual Remediation of Chlorinated and Recalcitrant Compounds, Monterey CA, May 22-25, 2000. |
| 37. | Clausen, C. A., C. L. Geiger, P. Toy, D. R. Reinhart, M. Cannata, M. Chopra and J. Quinn. Use of Ultrasound in a Saturated Soil/Iron Matrix to Remediate Contaminated Groundwater. Ultrasound Industry Association 29th Annual Symposium,Baltimore, Maryland, June 7-8, 1999. |
| 36. | Geiger, C. L., C. A. Clausen, D. R. Reinhart, V. Prassad, L. Pettey, E. Ofori, and J. Quinn. Variables Involved in the Electrokinetic Remediation of Soils Contaminated with Heavy Metals. Environmental Division poster And SCI-MIX Sessions, American Chemical Society Fall National Conference, New Orleans, August 22-26, 1999. |
| 35. | Farrell, K., D. Reinhart, C. Clausen, C. L. Geiger and J. Quinn. Field-Testing of Ultrasound for Rejuvination of Permeable Treatment Walls. Florida Air and Waste management Association Annual Conference, Orlando, FL, September 21-22, 1999. |
| 34. | Geiger, C. L., C. A. Clausen, D. R. Reinhart, V. Prassad, L. Pettey, E. Ofori, and J. Quinn. Variables Involved in the Electrokinetic Remediation of Soils Contaminated with Lead. Florida Air and Waste management Association Annual Conference, Orlando, FL, September 21-22, 1999. |
| 33. | Geiger, C. L., C. A. Clausen, D. R. Reinhart, V. Prassad, L. Pettey, E. Ofori, and J. Quinn. Electrokinetics as a Remediation Technology for Soils Contaminated with Heavy Metals and the Variables Involved in the Process. NASA 2nd Annual Partners in Education Conference, Melbourne FL, October 6-7, 1999. |
| 32. | Prasad, V., C.L. Geiger, C.A.Clausen , D. Reinhart, C. Nandall. Comparing The Importance Of Variables Involved In The Electrokinetic Remediation Of Soils Contaminated With Heavy Metals. Florida Section Of The American Chemical Society Annual Meeting, May 11-13, 1999. |
| 31. | Geiger, C. L., C. A. Clausen, D. R. Reinhart, P. Toy, N. Ruiz, N. Chan, J. Quinn. Trichloroethylene Sorption At A Zero-Valent Iron Surface. Florida Section of The American Chemical Society Annual Meeting, May 11-13, 1999. |
| 30. | Farrell, K., C. L. Geiger, C. A. Clausen, D. R. Reinhart, J. Quinn. Field Application Of A Permeable Treatment Wall: A Preliminary Study Of Early Data. Florida Section of The American Chemical Society Annual Meeting, May 11-13, 1999. |
| 29. | Prasad, V., C. L. Geiger, L. Pettey, C. A. Clausen, D. Reinhart, C. Nandall, E. Ofori. The Effect Of Flow Rate, Conditioning Fluid Concentration, And Voltage On The Electrokinetic Remediation Of Soils Contaminated With Heavy Metals. Florida Academy Of Sciences Annual Meeting, Tampa, FL, March 11-13, 1999. |
| 28. | Geiger, C. L., Clausen, C.A., Reinhart, D.R., Toy, P., Ruiz, N., Chan, N., Quinn, J. Examining The Sorptive Characteristics Of Different Zero-Valent Iron Surfaces. Florida Academy Of Sciences Annual Meeting, Tampa, FL, March 11-13, 1999. |
| 27. | Farrell, K., Geiger, C.L., Clausen, C.A., Reinhart, D.R., Quinn, J. A Study To Determine The Effectiveness Of A Field Application With A Permeable Treatment Wall. Florida Academy Of Sciences Annual Meeting, Tampa, FL, March 11-13, 1999. |
| 26. | Geiger, C. L., Clausen, C.A., Reinhart, D.R., Ruiz, N., Chan, J. Quinn. Using Ultrasound To Examine The Sorptive Characteristics Of Different Zero-Valent Iron Surfaces. American Chemical Society National Meeting, (Environmental Division Posters and SCI-MIX Posters), Anaheim, CA, March 21-25, 1999. |
| 25. | Geiger, C. L., Clausen, C.A., Reinhart, D.R., Toy, P. Synthesis and Characterization of Nano-Scale Iron For Use In The Treatment Of Water Contaminated With Chlorinated Solvents. International Conference On Nano-Scale Technology, San Francisco, CA, December 12-15, 1999. |
| 24. | Geiger, C. L., Clausen, C.A., Reinhart, D.R., Ruiz, N., Lau, N., Toy, P., Quinn, J. The Use of Ultrasonic Energy for Regeneration of Reactive Iron Used in Permeable Reactive Walls. Partners in Education & Research Conference, NASA, Kennedy Space Center. Cocoa Beach, Florida, October 6-8, 1998. |
| 23. | Reinhart, D.R., Quinn, J.W., Clausen, C.A., Chopra, M.B., Geiger, C., Ruiz, N., Burwinkel, S. Scale-Up Of Zero-Valent Iron Permeable Treatment Wall Design Parameters. The Water Environment Federation Conference, Orlando, FL, Oct. 5-8, 1998. |
| 22. | Geiger, C.L., Clausen, C.A., Reinhart, D., Ruiz, N., Toy, P., Lau, N. The Use Of Ultrasonic Energy For Regeneration Of Reactive Iron Used for In Situ Remediation. The Air And Waste Management Association 91st Annual Meeting, San Diego, California, June 14-18, 1998. |
| 21. | Ruiz, N., Geiger C. L., Reinhart, D., Clausen, C. A., Quinn, J. Enhanced Degradation of Chlorinated Solvents In Groundwater Using Sonicated Zero-Valent Iron: Batch Studies. International Association Of Water Quality Conference, Van Couver, Canada, June , 1998. |
| 20. | Ruiz, N., Geiger C. L., Reinhart, D., Clausen, C. A., Quinn, J. Enhanced Degradation Of Chlorinated Solvents In Groundwater Using Sonicated Zero-Valent Iron - Batch Studies. The First International Conference on Remediation of Chlorinated and Recalcitrant Compound, Monterey California, May 18-21, 1998. |
| 19. | Ofori, E., Geiger, C. L. Development of an Extraction Technique for Analysis of Multi-Component Residues of Agricultural Chemicals. 62nd Annual Meeting of the Florida Academy of Sciences, Winter Park, FL. March 26-28, 1998. |
| 18. | Lau, N., Geiger, C.L., Clausen, C.A., Reinhart, D., Ruiz, N., Toy, P. Reductive Dehalogenation of Chlorinated Hydrocarbons Using Zero-Valent Iron. 62nd Annual Meeting of the Florida Academy of Sciences, Winter Park, FL, March 26-28, 1998. |
| 17. | Pettey, L., Geiger, C.L., Clausen, C.A., Reinhart, D. Sandbox Studies of an In-Situ Technique for the Remediation of TCE Contaminated Groundwater. 62nd Annual Meeting of the Florida Academy of Sciences, Winter Park, FL. March 26-28, 1998. |
| 16. | Geiger, C. L., Clausen, C.A., Toy, P., Ruiz, N., Reinhart, D. The Use of Ultrasound to Study the Sorption Properties of Zero-Valent Iron. 62nd Annual Meeting of the Florida Academy of Sciences, Winter Park, FL, March 26-28, 1998. |
| 15. | Prassad, V., Geiger, C.L., Clausen, C.A., Reinhart, D. The Development of an Electrokinetic Technique for In-Situ Remediation of Soils Contaminated with Heavy Metals. 62nd Annual Meeting of the Florida Academy of Sciences, Winter Park, FL. March 26-28, 1998. |
| 14. | Ruiz, N., Reinhart, D., Clausen, C., Geiger, C.L. Use of Sonication Enhanced Zero-Valent Iron to Degrade Chlorinated Solvents in Groundwater. 62nd Annual Meeting of the Florida Academy of Sciences, Winter Park, FL, March 26-28, 1998. |
| 13. | McHone, J., Geiger, C.L., Ofori, E. Investigation of Breakdown Products of a Pesticide Mixture. 62nd Annual Meeting of the Florida Academy of Sciences, Winter Park, FL, March 26-28, 1998. |
| 12. | Ruiz, N., Reinhart, D., Clausen, C.A., Geiger, C.L., Toy, P. Use of Sonication-Enhanced Zero-Valent Iron in Reductive Dehalogenation Degradation of Organic Solvents. Subsurface Barrier Technologies Symposium, Tucson, Arizona, January 26-27, 1998. |
| 11. | Reinhart, D. R., Clausen, C., Chopra, M., Geiger, C., Quinn, J.W., Ruiz, N., Burwinkel, S. Application of an Enhanced Zero-valent Iron Permeable Treatment Wall. Florida Remediation Conference, Orlando, Florida, November 12-13, 1997. |
| 10. | Geiger, C. L., Clausen, C.A., Reinhart, D.R., Ruiz, N., Toy, P., Quinn, J. Sorption and Degradation of TCE at an Iron Surface. American Chemical Society Southeastern Conference, Roanoke Virginia, October 1997. |
| 9. | Ruiz, N., Reinhart, D., Clausen, C.A., Geiger, C.L., Toy, P. Enhanced Degradation of Chlorinated Solvents Using Zero-Valent Iron and Ultrasound-Batch Studies. Annual Meeting of the Florida American Chemical Society, Orlando, Florida, May 1, 1997. |
| 8. | Ruiz, N., Reinhart, D., Clausen, C.A., Geiger, C.L., Toy, P. Enhanced Degradation of Chlorinated Solvents Using Zero-Valent Iron and Ultrasound-Batch Studies. Annual Meeting of the Florida American Chemical Society, Orlando, Florida, May 1, 1997. |
| 7. | Lau, N., Geiger, C., Clausen, C.A., Afiouni, G., Ruiz, N., Toy, P., Reinhart, D. Column Studies for the Use of Ultrasound Enhanced Zero-Valent Iron Technology for Use in Subsurface Aquifers. Annual Meeting of the Florida American Chemical Society, Orlando, Florida, May 1, 1997. |
| 6. | Geiger, C. L., Clausen, C., Ruiz, N., Toy, P., Reinhart, D. Reductive Dehalogenation of Trichloroethylene Using Zero-Valent Iron and Ultrasonic Energy. 61st Annual Meeting Florida Academy of Sciences, Punta Gorda, Florida, March 15, 1997. |
| 5. | Reinhart, D. R., Quinn, J.W., Clausen, C.A., Geiger, C., Ruiz, N., Afiouni, G.F., Enhanced Zero-Valent Metal Permeable Wall Treatment of Contaminated Groundwater. The 1997 International Containment Technology Conference and Exhibition, St. Petersburg, Florida, February 10, 1997. |
| 4. | Reinhart, D. R., Clausen, C., Geiger, C., Ruiz, N., Afiouni, G. Enhancement of In-Situ Zero-Valent Metal Treatment of Groundwater. ASCE NAPL Assessment and Remediation, Washington, D.C., November 11, 1996. |
| 3. | Geiger, C. L., Clausen, C.A., Afiouni, G., Reinhart, D., Ruiz, N. The use of Ultrasonic Energy for In-Situ Groundwater Remediation. American Chemical Society National Meeting, Orlando, Florida, August 25, 1996. |
| 2. | Geiger, C. L., Clausen, C. A., Cooper, C.D., Martinez, A. I. Enhanced Oxidation of Volatile Organic Compounds from Flue Gases Using Hydrogen Peroxide. Emerging Technologies in Hazardous Waste Management VII Proceedings, bSeptember 1995. |
| 1. | Geiger, C. L., Clausen, C. A., Cooper, C.D., Martinez, A. I. Using Hydrogen Peroxide to Enhance the Thermal Destruction of Dilute Volatile Organic Compounds. Air & Waste Management Association 88th Annual Meeting Proceedings, June 1995. |