Cherie L. Yestrebsky, Ph.D.

Interim Chair and Professor

Department of Chemistry

University of Central Florida

Orlando, FL 32816-2366

Cherie.Yestrebsky@ucf.edu

Ph: 407-823-2135

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# 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:**

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| 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.  |
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| 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

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| 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

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| 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.  |
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