

POSTER BOARDS ARE 6 feet wide by 4 feet tall – use all the space you want within these constraints!
Presenters will stand by even numbered posters on Monday.
Presenters will stand by odd numbered posters on Tuesday.
Posters will be displayed continuously throughout the conference.

ORGANIZERS NOTE: We had a tremendous response to the Call for Abstracts for the 2009 AEESP Conference and we unfortunately could not accept many of the high quality submissions for oral presentations.

All submitted abstracts that were not selected for oral presentation have been selected for poster presentation. We will likely have over 120 posters that will be prominently displayed during the conference. We expect the scheduled poster sessions to represent a high quality and engaging opportunity to share research results and education best practices.

*If you submitted an abstract and cannot find your presentation listed under the oral or poster sessions, please notify our program chair, Michelle Scherer.
michelle-scherer@uiowa.edu*

AEESP 2009 Conference Posters

- 1. Demonstration of Solid-Phase Microextraction (SPME) for Measuring Contaminant Pore Water Concentration Profiles in Sediments: Implications for Remediation**
David J. Lampert, Wil Sarchet, Danny Reible
- 2. PhytoForensics: *In-planta* Sampling Breakthroughs**
Joel G. Burken, Kendra M. Waltermire, Emily M. Sheehan, Ulrich Goswinkel Karlson, Phillip Mayer
- 3. Selection of Resistant Bacteria Within an Environmental Community in Response to Low-Level Exposure to Triclosan**
Kristine H. Wammer, Louis H. Sigtermans, Timothy M. LaPara
- 4. Bacterial Distribution in the Aqueous and Solid Phases**
Natalie L. Cápiro, Frank E. Löffler, Kurt D. Pennell
- 5. Air Quality and Fog Chemistry and Their Interactions in the Gulf Coast Corridor**
Raghava R. Kommalapati, Suresh Raja, Jeffrey L. Collett Jr., Kalliat T. Valsaraj
- 6. Prion Protein Adsorption to Soil in a Competitive Matrix Is Slow and Reduced**
Shannon L. Bartelt-Hunt, Samuel Saunders, Jason C. Bartz
- 7. Influence of Composting on Hormone Persistence in Beef Cattle Manure**
Shannon L. Bartelt-Hunt, Shannon L. DeVivo, Tian C. Zhang, Daniel Snow, Bill Kranz, Terry Mader, Charles Shapiro, David Shelton, Simon Van Donk, Steve Ensley, David Tarkalson
- 8. Metal Induced Antibiotic Resistance in Activated-Sludge Reactors**
Edward Peltier, Joshua A. Vincent

9. **Carbon Footprint of Hydrogen Peroxide Supply and Storage in Water Reclamation Plants**
Diego Rosso, Haomin Xu
10. **Effect of Substrate Addition on Toluene Biodegradation Following a Horizontal Gene Transfer Event of the TOL Plasmid into *Escherichia coli* DH5 α**
Kaoru Ikuma, Claudia K. Gunsch
11. **Adsorptive Fouling and Flux Decline of Microfiltration Membranes Treating Activated Sludge Basin Effluents**
Joel C. Donalson, Amy E. Childress, Eric A. Marchand
12. **Effect of Partial Lead Service Line Replacement on Lead Corrosion**
Caroline Nguyen, Simoni Triantafyllidou, Jie Hu, Marc Edwards
13. **Understanding Brass Dezincification Failures in Premise Plumbing Systems**
Emily Sarver, Marc Edwards, Yaofu Zhang
14. **Lead (Pb) in Drinking Water of U.S. Schools: Detection Challenges and Public Health Considerations**
Simoni Triantafyllidou, Meredith Raetz, Marc Edwards
15. **Enzyme Disinfection of Soil Contaminated with Prions**
Samuel E. Saunders, Jason C. Bartz, Kurt C. VerCauteren, Shannon Bartelt-Hunt
16. **Investigation of ZnO Nanoparticles Toxicity to Microbial Species**
Yin Wang, Bing Wu, Rick Huang, Daren Chen, Yinjie Tang
17. **Sorption of Buckminsterfullerene (C₆₀) to Saturated Soils**
Chia-Ying Chen, Chad T. Jafvert
18. **Optimization of Terminal Restriction Fragment Length Polymorphism (tRFLP) for Analyzing the Diversity of Dehalogenase Genes in Drinking Water**
Alina S. Grigorescu, Ping Zhang, Timothy M. LaPara, Raymond M. Hozalski
19. **Microbial Community Dynamics During Co-digestion of Food Industry Wastes**
Diane Nelsen, Alanna Koser, John Ferguson, Heidi L. Gough
20. **Enhanced Toxicity of Cu-doped TiO₂ Nanoparticles to Pathogenic and Environmental Microorganisms**
Rick Huang, Bing Wu, Manoranjan Sahu, Xueyang Feng, Patricia Wurm, Howard Wynder, Pratim Biswas, Yinjie J. Tang
21. **Sustained Reaction of Fe(II) with Mn(IV) Oxides**
Michael V. Schaefer, Robert M. Handler, David M. Cwiertny, Michelle M. Scherer
22. **Redox Reactions of Aluminum Substituted Goethite**
Drew E. Latta, Michelle M. Scherer

- 23. Contaminants of Emerging Concern and Analysis of Environmental Exposures in the Great Lakes**
Carolyn Persoon, Rebecca Currie, Gary Klecka
- 24. Assessment of change drivers affecting the sustainability of gravity fed water supply in the Alto Beni watershed of Bolivia**
Lauren M Fry, James R. Mihelcic, David W. Watkins, Nathan Reents
- 25. A Comparison of Blood PCB Concentrations in Industrial and Rural Communities: East Chicago, IN and Columbus Junction, IA**
Rachel F. Marek, Peter S. Thorne, A. Karin Norström, Jeanne DeWall, Keri C. Hornbuckle
- 26. Development of a Novel Reactive Capping Amendment Through Nano-texturing of Sand Surface with Carbon Nanotubes**
Xingmao (Samuel) Ma, Deepti Anand, Yang Deng
- 27. Unsteady-State Chemodynamic Fate and Transport Model for In-Home Pollutants Following Hurricane Katrina**
L.J. Thibodeaux, N. Ashley, K.T. Valsaraj
- 28. GlobalResolve: Introducing Students to the Global Engineering Design, Economics, and Sustainability**
John Woolschlager, Mark Henderson, Brad Rodgers
- 29. Biological Nutrient Removal from On-Site Wastewater Treatment Systems Using Membrane Aerated Bioreactor and Microbial Fuel Cell Techniques**
Zhihua Liang, Huy Quang Nguyen, Atreyee Das, Zhiqiang Hu
- 30. Transformation of Organic Nitrogen During Disinfection of Impaired Waters: Polypeptide Modifications**
Spencer S. Walse, William A. Mitch
- 31. Monitoring Gene Transfer in Soil by Green Fluorescent Protein**
Heather Goetsch, Thanh H.(Helen) Nguyen, Julie Zilles
- 32. Structural and Functional Response of the Ammonia Oxidizing Bacterial Community to Acute Cadmium Stress in Laboratory and Pilot Scale Activated Sludge Systems**
Ameet J. Pinto, Nancy G. Love
- 33. Autotrophic Cogrowth of Nitrifying Bacteria, Cyanobacteria, and *Chlorella* in a Nitrifying Bioreactor**
Okkyoung Choi, Atreyee Das, Zhiqiang Hu
- 34. Agricultural Nitrogen Export During Snowmelt Events**
Mike Penn, Randy Mentz, Dennis Busch, David Owens

- 35. Effects of Nitrous Oxide Emissions on Process Carbon Footprint of Wastewater Treatment Plants**
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- 36. Applicability of Centrate as a Nutrient Amendment for Reuse Water: Water Quality Characterization and Plant Growth Studies**
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- 37. Nitrogen Removal in Drainage Bioreactors**
Laura Christianson, Alok Bhandari, Matt Helmers, Carl Pederson
- 38. Nitrogen Fluxes in Agricultural Tile-Drains and Ditches**
Heather Gall, Chad Jafvert, Linda Lee
- 39. Grand Environmental Challenge: Nutrient Cycling, Global Climate Change, and Large River Systems**
Jeremy Bril, Craig Just, Gene Parkin, Nate Young, Teresa Newton
- 40. Setting Risk-Informed Environmental Standards for *Bacillus anthracis* Spores**
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- 41. Deposition Kinetics of *Bacteriophage MS2* to Natural Organic Matter: Role of Divalent Cations**
T.H. Nguyen, Mai Pham
- 42. Solar Disinfection of Viruses in the Presence of Natural Organic Matter**
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- 43. Survival Dynamics of Enteric Bacteria in Surface Water: Role and Relevance of GASP-Mutant Population Shifts**
Vanni Bucci
- 44. Deposition Kinetics of Rotavirus on Silica and Natural Organic Matter Surfaces**
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- 45. Role of Divalent Cations on Deposition Kinetics of *Cryptosporidium parvum* Oocysts onto Natural Organic Matter Surfaces**
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- 46. Inactivation of Bacteriophage MS2 by Fenton-like Reaction in the Sunlight and in the Dark**
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- 47. Photochemical Disinfection of Pathogens: Bactericidal Capacity and Rate Studies of Reactive Oxygen Species in Systems with Nitrate**
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- 48. The Role of Adsorbed Chromosomal DNA Conformation on Natural Transformation of *Azotobacter vinelandii***

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49. **Microbial Source Tracking of Fecal Indicator Bacteria in Philadelphia, Pennsylvania**
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50. **Lanthanum-Based Concentration and Microrespirometric Detection of Microbes in Water**
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51. **Role of *Cryptosporidium parvum* Oocysts Wall Micromolecules on Deposition Kinetics of Oocysts on Quartz Surface: A Proteomics and Deposition Study**
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55. **Survival and Migration of Antibiotic Resistant Genes in the Water Column and Biofilm Environments**
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- 62. Polyelectrolyte Multilayer Films as Backflushable Nanofiltration Membranes with Tunable Hydrophilicity and Surface Charge**
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- 63. Heavy Metal and Arsenic Sorption to Metal Oxide Nanoparticles for Environmental Applications**
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- 65. Implementation Considerations for Providing an Improved Water Source in Cameroon**
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- 75. Gene Discovery in Lipid-Producing Microalgae**
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- 76. Methane Potential During Co-digestion of Food Industry Wastes**

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- 82. Two-Stage Hydrothermal Pretreatment of *Miscanthus* for Bioethanol Production**
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- 84. Accessibility and Ion Exchange Stoichiometry of Ionized Carboxylic Groups in the Active Layer of FT30 Reverse Osmosis Membrane**
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- 88. Viruses in Activated Sludge Processes: Their Role and Influence on Microbial Community and Process Performance**
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- 93. Correlation Between Demographic Characteristics to Water Consumption of Households in the City of Phoenix**
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- 94. Sewage to Drinking Water — A Dream or a Possibility? Experiences from the Spring 2009 Senior Design Class at Florida International University**
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- 95. Growth and Herbicide Degradation by *Delftia acidovorans***
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- 103. Elucidating Factors That Influence Bacterial Biotransformation of Microconstituents**
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- 106. PCB Sorption to Activated Carbon: Relevance of External Mass Transfer Limitations and Implications for Sediment Capping**
Julian L. Fairey, David G. Wahman, Greg V. Lowry
- 107. Evaluation of Hydrogen Injection for Restoring Groundwater at a Uranium Mining Site**
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- 108. Iron Biomineralization: Implications on the Fate of Arsenic in Landfills**
Fernando Alday, Christopher Olivares, A. Eduardo Sáez, Wendell Ela
- 109. Achieving Sustainability in the Water Industry — Methodologies That Enable a New Planning and Design Paradigm**
Jeremy S. Guest, Steven J. Skerlos, Glen T. Daigger, Nancy G. Love
- 110. Effects of Silver Nanoparticles on *Escherichia coli* and Denitrifying Bacterial Communities**
Christina Arnaout, Ben Colman, Jenny Wang, Emily Bernhardt, Curt Richardson, Claudia K. Gunsch
- 111. Quantifying the Impact of Green Roofs on Water Quantity and Quality in an Urban Watershed**
Najwa Obeid, Nathaniel Hanna Holloway, Arthur R. Schmidt, Charles J. Werth
- 112. Development of Pd/Re Bimetallic Catalysts for Perchlorate Reduction**
Jinyong Liu, John R. Shapley, Charles J. Werth, Timothy J. Strathmann
- 113. Photocatalytic Degradation of Iodinated X-ray Contrast Media by Nanophase Titanium Dioxide**
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- 114. Investigation of the Nitrate Reduction Mechanism over a Pd/In Bimetallic Catalyst**
Rui Zhang, Kathryn A. Guy, Timothy J. Strathmann, Charles J. Werth, John R. Shapley
- 115. Analytical solutions to sequentially coupled reactive transport problems**
V. Srinivasan and T. P. Clement

- 116. Development of a Microfluidic-Based Sensor for 17- β -estradiol Using Magnetic Bead-Bound DNA-Aptamers: Passive Mixing of Nano to Micro-Scale Magnetic Beads**
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- 117. Transformation of Beta-lactam Antibacterial Agents During Aqueous Ozonation: Reaction Pathways and Quantitative Bioassay of Biologically-Active Oxidation Products**
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- 118. High-Frequency Sensing of Dissolved Oxygen and Turbidity in Clear Creek**
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- 119. Application of an Internal Boundary Layer Transport Exchange Model to Gas Transfer of Semivolatile Organic Contaminants in Lake Superior**
M.D. Rowe, J.A. Perlinger, C.W. Fairall
- 120. The Inhibitory Effect of Silver Nanoparticles to Waste Treatment Microorganisms**
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- 121. Environmental Engineering and Science Research and Education in Brazil**
Antonio D. Benetti
- 122. New Country Movement — A Way for Villages in the Developing World to Sustainability**
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- 123. Life Cycle Assessment of Pump-and-Treat vs. Passive Groundwater Remediation Technologies for Solvent Contamination**
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- 124. Investigation of a Cyclohexanone Monooxygenase from the Xenobiotic-Degrading *Polaromonas* sp. strain JS666**
Anne K. Alexander, Timothy E. Mattes
- 125. Persistent Organic Pollutants Found in the 2008 Flood Residues of Cedar Rapids, Iowa**
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- 126. Fate of PCB Congeners in an Industrial Harbor of Lake Michigan**
Andres Martinez, Kai Wang, Keri C. Hornbuckle
- 127. Redox Behavior of Magnetite in Fe-reducing Environments: A New Conceptual Model**
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- 128. Optimization of an Electrode-Based Remedial Strategy for Uranium Removal from Acidic Groundwater**
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- 129. On the Prevention of Nanomaterial Toxicity Through Stabilization with Organic Particle Surface Coatings**
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- 130. Using An Economic Model to Inform Response Decisions for Environmental Concentrations of B. anthracis**
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- 131. The development of new Spanish Environmental Engineering curricula in connection with the European Higher Education Area (EHEA)**
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- 132. Value of Information for Conflict Resolution**
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- 133. NO POSTER**
- 134. Towards Ending the Use of Potable Water to Flush Toilets: Water, Energy, and CO2 Implications of Alternative Technologies**
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- 135. NO POSTER**