

DOE-ERSP Annual PI Meeting National Conference Center, Lansdowne, VA

Agenda

Monday, April 7, 2008

Afternoon Session

1:00 p.m.	ERSP Programmatic Overview and Outlook for the Future <i>David Lesmes, Acting Division Director, ERSD</i>
1:30 p.m.	Welcome Back Anna Palmisano, Associate Director of Science for Biological and Environmental Research
2:00 p.m.	A Geologic Framework for Reactive Solute Transport Properties in Sedimentary Aquifers Richelle M. Allen-King, University at Buffalo (SUNY)
2:30 p.m.	Significance of Microporosity to Reactive Transport Modeling at DOE Sites James A. Davis, U.S. Geological Survey
3:00 p.m.	BREAK
3:30 p.m.	Coupled Biogeochemical Processes in the Soil and Soil-Plant Systems Responsible for Enhanced Transport of Plutonium in the Vadose Zone <i>Daniel Kaplan, Savannah River National Laboratory</i>
4:00 p.m.	Terry Beveridge Memorial Lecture Grant Ferris, University of Toronto
5:00 p.m.	DINNER
6:30 p.m.	Poster Session 1



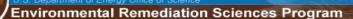
Tuesday, April 8, 2008 Morning Session

Integrated Field-Scale Subsurface Research Challenge (IFC) Presentations

- 8:30 a.m. Oak Ridge Site Phil Jardine, ORNL, and Co-PI's
- 9:30 a.m. Old Rifle UMTRA Site Phil Long, PNNL, and Co-PI's
- 10:30 a.m. BREAK
- 11:00 a.m.Hanford 300 Site
John Zachara, PNNL, and Co-PI's
- 12:00 noon A Roadmap for Practical Deployment of Models for Microbially Mediated Remediation of Metals and Radionuclides at DOE Sites Jack Parker, University of Tennessee
- 12:15 p.m. LUNCH and FREE TIME (Working Lunch with FREC and IFC teams)

Afternoon Session

- 3:00 p.m. Nitrite Enhanced Chromium Reduction in Three Model Organisms: *Geobacter metallireducens*, *Sulfurospirillum barnesii*, and *Desulfovibrio desulfuricans* 27774 *John F. Stolz, Duquesne University*
- 3:30 p.m. Structure and Function of Subsurface Microbial Communities Affecting Radionuclide Transport and Bioimmobilization Joel E. Kostka, Florida State University
- 4:00 p.m. Metagenomics-Enabled Understanding of Metal-Reducing Communities at the ORNL-FRC James M. Tiedje, Michigan State University
- 4:30 p.m. From Community Structure to Functions: GeoChip Development and Its Applications to Bioremediation Jizhong Zhou, University of Oklahoma
- 5:00 p.m. **DINNER**
- 6:30 p.m. **Poster Session 2**



Wednesday, April 9, 2008 Morning Session

- 8:30 a.m. Integrated Hydrogeophysical and Hydrogeologic Driven Parameter Upscaling for Dual-Domain Transport Modeling John M. Shafer, University of South Carolina
- 9:00 a.m. Hyphenated Techniques for Determining pH-Dependent Pore-Scale Uranium (VI) Speciation James F. Ranville, Colorado School of Mines
- 9:30 a.m. **Development of Modeling and Scaling Methods for Predicting Coupled Reactive Transport Processes** *T. Prabhakar Clement, Auburn University*

10:00 a.m. BREAK

- 10:30 a.m. **The Role of Microbial Phosphates on Uranium Mobility in the Subsurface** *Patty Sobecky/Martial Taillefert. Georgia Institute of Technology*
- 11:00 a.m.Effects of Fermentative Activity on Fate and Transport of U and Cr
Brent Peyton, Montana State University
- 11:30 a.m. Biochemical Mechanisms and Energy Strategies of Geobacter sulfurreducens Ming Tien, Pennsylvania State University

12:00 noon LUNCH (SFA Panel Working Lunch—Orientation and Charge)

Afternoon Session

Scientific Focus Area (SFA) Presentations—DOE National Laboratories

- 1:30 p.m. SFA Overview and Background (ERSD) *R. Todd Anderson, Program Manager, ERSD*2:00 p.m. Lawrence Berkeley National Laboratory *Susan Hubbard*2:30 p.m. Pacific Northwest National Laboratory *Harvey Bolton*3:00 p.m. Oak Ridge National Laboratory *Liyuan Liang*3:30 p.m. BREAK
- 3:45 p.m. Stanford Synchrotron Radiation Laboratory John Bargar



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4:05 p.m.	Argonne National Laboratory Carol Giometti
4:25 p.m.	Los Alamos National Laboratory <i>Michael Ebinger</i>
4:45 p.m.	Idaho National Laboratory <i>Mark Ankeny</i>
5:05 p.m.	DINNER
6:30 p.m.	SFA Poster Session

9:00 p.m. MEETING ADJOURNED