

**Poster Presentations**  
**SBI/IGERT Retreat and Workshop**  
**Newport, Oregon**

**Monday, June 19, 2006**

**Boyle, Stephanie, Peter J. Bottomley, David D. Myrold**

The Contributions of Bacteria and Fungi to Nitrogen Cycling in Forest Soils under Douglas fir and Red Alder.

**Brewer, Elizabeth A., Thomas W. Boutton, David D. Myrold**

Woody Plant Invasion of Grassland Alters the Composition of Soil Microbial Communities

**Brutcher, Lisa, Anita Azarenko, Annie Chosinski, Russell Ingham, David Myrold, Clark Seavert**

Ecological Soil Community Management for Enhanced Nutrient Cycling in Organic Sweet Cherry Orchards

**Caldwell, Sara, Anna-Louise Reysenbach**

Iron Reduction / Oxidation in Sulfurihydrogenibium spp. from Calcite Springs, a Terrestrial Hot Spring in Yellowstone National Park

**Chaer, Guiherme Montandon, Marcelo Ferreira Fernandes, David Myrold, Peter Bottomley**

Resistance and resilience of soil microbial structure and enzymatic activities to heat shocks

**Decrappeo, Nicole, and David A. Pyke**

Soil microbial and nematode community dynamics under elevated and depleted nitrogen conditions in paired sagebrush steppe and Bromus tectorum-invaded ecosystems

**Eberly, Jed**

Expression of a thermophilic hydrogenase in Thermosynechococcus elongatus

**Goin, Jessica, Sherry L. Cady**

Sinter fabric formation at K4 Well, Uzon Caldera, Kamchatka: Implications for biosignature formation and preservation

**Hebel, Cassie and Jane E. Smith**

The Interactions Between Soil Microbial Communities and Plant Re-Colonization after a Severe Wildfire in Central Oregon

**Kluber, Laurel, Susie Dunham, Katie Tinnesand, Peter Bottomley, Bruce Caldwell, Kermit Cromack, Jr., David Myrold, Joey Spatafora**

Species diversity of mat forming ectomycorrhizal fungi and their associated microbial activities

**Laidler, Jim, and Kenneth Stedman**

Virus Mineralization in a Hydrothermal Environment

**Mason, Olivia, U. Stingl, C. Di Meo-Savoie, M. Fisk, and S. J. Giovannoni**

A Phylogenetic Review: Endolithic Microbes Associated with Marine Basalts

**Oakes-Miller, Hollie, and Sherry L. Cady**

Comparison of Streamers and their Fossilized Counterparts in Silica-Depositing Hot Springs, Yellowstone National Park, USA

**Phillips, Claire, Chris Andersen, Paul Rygielwicz, Barbara J Bond**

How Much of "Autotrophic" Respiration in Douglas-Fir Soil Comes from Roots?

**Starkenburg, Shawn R., Patrick Chain, Luis Sayavedra-Soto, Frank Larimer, William Hickey, Dan Arp, Peter Bottomley**

Comparative and Functional Genomics in *Nitrobacter winogradskyi* and *Nitrobacter hamburgensis*

## **Tuesday, June 20, 2006**

**Azizian, Mohammad, Sebastian Behrens, Andy Sabalowsky, Mark Dolan, Alfred Spormann, Lewis Semprini**

Continuous-Flow Column Studies of Reductive Dehalogenation of CAHs with Evanite Enriched Culture: Kinetics, Inhibition, and Monitoring of Microbial Activity

**Bice, Angela**

Microbes as Minerals: Thermodynamic Modeling of The Effects of Electron Donor Addition in Contaminated Aquifers

**Cakin, Defne, James Ingle Jr.**

Low Level Oxygen Measurements in the Subsurface Environment

**Davidson, Drew**

Metabolism of Alkanes and Degradation of Chlorinated Ethenes by the Bacterium *Pseudomonas butanovora*

**Doughty, David, C. Vievelle, K. H. Halsey, L. A. Sayavedra-Soto, D. J. Arp, and P. J. Bottomley**

Inactivation of Butane Monooxygenase by Propionate

**Halsey, Kim, David M. Doughty, Luis A. Sayavedra-Soto, Peter J. Bottomley, and Daniel J. Arp**

Investigating the Basis of Substrate Specificity of Butane Monooxygenase and Chlorinated Ethene Toxicity in *Pseudomonas butanovora*

**Harrington, Stephanie**

Dispersion Through Heterogeneous Porous Media

**Ingle, Jim, Peter Ruiz-Haas**

Redox Sensors for the Subsurface Environment

**Isaacson, Carl and Jennifer A. Field**

Determination of 1,4-dioxane and THF in Chlorinated Solvent Contaminated Aquifers

**Kraft, Erika, N. Ochiai, N. Tuffillaro, J.S. Selker**

Methodological Developments in Meso-scale Visualization of Colloid Transport Dynamics in the Subsurface

**Ochiai, Naoyuki, Erika Kraft, Maria Dragila, Jennifer Parke**

Pore-scale Visualization of Colloid Transport  
Note: put next to Erika Kraft's poster

**Radniecki, Tyler, Mark Dolan and Lew Semprini**

Nitrification Inhibition of *Nitrosomonas europaea* by Toluene: Kinetics and Proteomics

**Sabalowsky, Andy and Lewis Semprini**

Modeling Cdce Toxicity to a Dehalococoides-Like Anaerobic Culture with Comparison of Dechlorination Performance in Suspended Vs. Attached Growth

**Saini, Gaurav**

Metabolic Uncoupling of *Shewanella Oneidensis*/ MR-1 Under the Presence of Excess Substrate and 3,3',4',5 Tetrachlorosalicylanilide (TCS)

**Sandborgh, Sean**

Effect of Chlorobenzene on *Nitrosomonas europaea* Physiology and Protein Expression

**Skinner, Kristin M, M. R. Hyman, L. M. Ciuffetti**

Pathway, Inhibition And Regulation of MTBE Oxidation by a Filamentous Fungus, *Graphium* sp.

**Smith, Kiara**

Geochemical Status of a Remedial Cap on Creosote-Contaminated Sediments in Portland Harbor and Its Potential Link to Natural Attenuation

**Taylor, Anne**

Evaluation of Fluoroethene as an Analogue for Aerobic Vinyl Chloride Degradation