

**Subsurface Biosphere Initiative Workshop/
IGERT Retreat
June 18-21, 2006
Newport, Oregon**

Sunday Evening, June 18

- 7:30 **Lew Semprini, Oregon State University**
 Introductory talk about SBI and Workshop
- 8:00 Campfire Social

Monday, June 19

- 8:15 **Marty Fisk, Oregon State University**
 Session 1: Global Geochemical Cycles and the Subsurface
 Biosphere
- 8:30 **Jim Fredrickson, Pacific Northwest National Laboratory**
 Biogeochemical Transformations of Metals: New
 Mechanistic Insights from Coupled Microbial-
 Geochemical Research
- 9:30 **Radu Popa, Portland State University**
 Microbes, the First Miners
- 10:00 **Melissa Kendall, University of Texas Southwestern Medical Center**
 Life in the Slow Lane: Methanogenesis in Permanently Cold
 Marine Sediments
- 10:30 Break
- 10:45 **Rick Colwell, Oregon State University/Idaho National Laboratory**
 Methane Hydrates
- 11:45 **George Redden, Idaho National Laboratory**
 Solution Mixing and Mineral Precipitation in Porous Media
- 12:15 Discussion
- 12:30 Break for lunch (on own)
- 1:30 **Peter Bottomley, Oregon State University**
 Session 2: Plants as Drivers
- 1:45 **Tom Boutton, Texas A&M University**
 Woody Plant Invasion of Grassland: Impacts on Soil
 Carbon and Nitrogen Storage and Dynamics.
- 2:45 **Kathleen Treseder, University of California, Irvine**
 Mycorrhizal Fungi and their Influence on Soil Dynamics
- 3:45 Break
- 4:00 **Sulzman, Elizabeth, Oregon State University**
 Carbon In and Out of DIRT: Can We Really Study Ecology in the
 Mountains?
- 5:00 Break for dinner

Monday Evening

- 7:00 **Dave Myrold, Oregon State University**
Evening introduction
- 7:05 **Darlene Southworth, Southern Oregon University**
Oaks Below Ground: Mycorrhizas, Truffles and Small Mammals
- 7:25 **Poster Session**
- 9:30 Beach Activities

Tuesday, June 20

- 8:15 **Lew Semprini, Oregon State University**
Session 3: Bioremediation
- 8:30 **Frank Löffler, Georgia Institute of Technology**
Bioremediation - The Solution from Within
- 9:30 **Craig Criddle, Stanford University**
Bioremediation of Atomic Bomb Wastes
- 10:30 Break
- 10:45 **Jack Istok, Oregon State University**
Thermodynamics and Growth: Is it Possible to Predict Changes in
Microbial Community Composition Using Equilibrium-Based
Reaction Paths?
- 11:15 **Yoshiko Fujita, Idaho National Laboratory**
Microbially Facilitated Calcite Precipitation for Immobilization of
Strontium-90 in the Subsurface
- 11:45 **Anne Taylor, Oregon State University**
Evaluation of Fluoroethene as an Analogue for Aerobic Vinyl
Chloride Degradation
- 12:15 Discussion
- 12:30 Break for lunch (on own)/free afternoon

Tuesday Evening

- 7:00 **Lew Semprini, Oregon State University**
Evening introduction
- 7.05 **Rick Colwell, Oregon State University/Idaho National Laboratory**
Secure Earth
- 7.25 **Poster Session**
- 9:30 Beach or other activities

Wednesday June 21

- 8:15 SBI Meeting
Program Development
Integrated Research Development
- 10:30 Break
- 11:00 Final Business