

2011 WATER REUSE CONFERENCE

AGENDA: MAY 24 & 25

BOISE, IDAHO

Welcome to the Water Reuse Conference!

Thanks to the planning committee for all the hard work.

Basic American Foods	DEQ	Murray, Smith & Associates, Inc.
Bowen Collins and Associates	Forsgren Associates	Pharmer Engineering
Brown and Caldwell	HDR, Inc.	Sorrento Lactalis
Cascade Earth Sciences	J.R. Simplot Co.	U.S. EPA
CENTRA	J-U-B Engineers	
CH2M Hill	Keller Associates, Inc.	



Tuesday, May 24, 2011 - Water Reuse Today and Tomorrow

7:15 a.m. - 8:00 a.m.	Breakfast & Registration
8:00 a.m. - 8:05 a.m.	Welcome - Session Moderator Dr. Erik Coats, University of Idaho
8:05 a.m. - 8:20 a.m.	Water Reuse in Idaho: An Overview Richard Huddleston, DEQ
8:20 a.m. - 9:05 a.m.	Critical Turning Points in the History of Water Reuse in the U.S. Robert Bastian, EPA Headquarters
9:05 a.m. - 10:05 a.m.	Sustainable Removal Mechanisms and Monitoring Requirements for Soil Aquifer Treatment Systems Peter Fox, Arizona State University
10:05 a.m. - 10:20 a.m.	Break Forsgren Associates, thank you for sponsoring the snacks!
10:20 a.m. - 11:05 a.m.	Challenges in Regulating Industrial Food Processing Waste Discharges to Land - Lessons Learned from California Jo Anne Kipps, California Regional Water Quality Control Board (rec. retired)
11:05 a.m. - 11:35 a.m.	Future of Rapid Infiltration in Land Treatment Robert Beggs, Brown and Caldwell, California
11:35 a.m. - 11:55 a.m.	Recent Changes to the Reuse Rules Richard Huddleston, DEQ
11:55 a.m. - 12:15 p.m.	Short Break, Visit Lunch Buffet
12:15 p.m. - 1:00 p.m.	Working Lunch Presentation - Talking About Water: Vocabulary and Images that Support Informed Decisions about Water Reuse Emily Callaway, CH2M Hill Portland
1:00 p.m. - 1:10 p.m.	Short Break after Lunch
1:10 p.m. - 2:10 p.m.	Microbial Pathogens and Fecal Indicator Bacteria in Reuse Water and other Venues: Caveats and Emerging Detection Technologies Valerie Harwood, University of South Florida
2:10 p.m. - 2:45 p.m.	Wastewater Phosphorus Removal and Environmental Life Cycle Assessment Dr. Erik Coats, University of Idaho
2:45 p.m. - 3:00 p.m.	Break CENTRA, thank you for sponsoring the snacks!
3:00 p.m. - 3:45 p.m.	Using Algae to Produce Biofuel Issa Hamud, City of Logan, Utah
3:45 p.m. - 5:15 p.m.	Filter Technology Panel Idaho Operators
5:15 p.m. - 6:30 p.m.	Reception Thank you, Brown and Caldwell, Cascade Earth Sciences, CH2M Hill, HDR, Inc., and J-U-B Engineers, Inc. for sponsoring the food and beverages!

Wednesday, May 25, 2011 - Session A: Reuse Case Studies

7:15 a.m. - 8:00 a.m.	Breakfast & Registration
8:00 a.m. - 8:05 a.m.	Welcome - Session Moderator.....Dr. Erik Coats, University of Idaho
8:05 a.m. - 8:50 a.m.	Case Studies Shaping Water Reuse Practices in the U.S.Robert Bastian, EPA Headquarters
8:50 a.m. - 9:35 a.m.	Fate of BOD and Nitrogen in Land Application of Food Processing Wastewater to a Clay Loam Soil Robert Beggs, Brown and Caldwell, California
9:35 a.m. - 10:20 a.m.	Reuse and Alternatives to Address Phosphorus and Temperature for Ashland Oregon. . . J. Bledsoe and L. Rupp, Keller Associates
10:20 a.m. - 10:35 a.m.	Break Bowen Collins & Associates, thank you for sponsoring the snacks!
10:35 a.m. - 11:20 a.m.	Biogas Case Study.....Henry Hamanishi, J.R. Simplot Co.
11:20 a.m. - 12:05 p.m.	Reuse for Power Plant Cooling Tower.....J. Neilson and R. Pharmer, Pharmer Engineering
12:05 p.m. - 12:50 p.m.	Lunch Buffet (not a working lunch)
12:50 p.m. - 1:35 p.m.	Constructed Wetlands and Vegetated Submerged BedsA.J. Maupin, DEQ
1:35 p.m. - 2:20 p.m.	Created Wetland Treatment from an Owner's PerspectiveLuke Austenfeld, Michigan YCamp
2:20 p.m. - 2:30 p.m.	Short Break.....Pharmer Engineering, thank you for sponsoring the snacks!
2:30 p.m. - 3:30 p.m.	City of LaGrande's Reuse Wetlands, 18 Years Later.....Brett Moore, Anderson-Perry & Associates, Inc.

Wednesday, May 25, 2011 - Session B: Rapid Infiltration

7:15 a.m. - 8:00 a.m.	Breakfast & Registration
8:00 a.m. - 8:05 a.m.	Welcome - Session Moderator.....Mark Mason
8:05 a.m. - 8:15 a.m.	An Overview of Rules for Rapid InfiltrationRichard Huddleston, DEQ
8:15 a.m. - 9:00 a.m.	A Comparison of Two Different Case Histories in Arizona: The Tucson Sweetwater Underground Storage and Recovery Facility and the Mesa Northwest Water Reclamation Plant.....Peter Fox, Arizona State University
9:00 a.m. - 9:45 a.m.	Hydraulic Characteristics and Nutrient Transport and Transformation Beneath a Rapid Infiltration Basin – Orange County FloridaDavid M. Sumner, USGS Florida
9:45 a.m. - 10:30 a.m.	Could There Be a Better Way? Nampa Infiltration...Steve Burgos, Brown and Caldwell Michael Fuss, City of Nampa
10:30 a.m. - 10:45 a.m.	Break.....Bowen Collins & Associates, thank you for sponsoring the snacks!
10:45 a.m. - 11:15 a.m.	Murtaugh Case Study - RI Basins as Solutions for Small TownsMark Holtzen, J-U-B Engineers
11:15 a.m. - 12:15 p.m.	Rapid Infiltration Workshop Al Wallace, University of Idaho
12:15 p.m. - 1:00 p.m.	Lunch Buffet (not a working lunch)
1:00 p.m. - 2:20 p.m.	Rapid Infiltration Workshop (continued)..... Al Wallace, University of Idaho
2:20 p.m. - 2:35 p.m.	Break.....Pharmer Engineering, thank you for sponsoring the snacks!
2:35 p.m. - 4:45 p.m.	Rapid Infiltration Workshop (continued) Al Wallace, University of Idaho