

**14th Intermountain Conference on the Environment &
42nd Engineering Geology and Geotechnical Engineering Symposium
Schedule for Thursday, November 5, 2009**

7:30 – 8:30	Registration and Coffee (Ballroom) – Poster authors to hang up posters	
8:30 – 8:40	OPENING SESSION (Ballroom) - Welcome by Dr. Richard Jacobsen , Dean of Engineering, ISU	
8:40 – 8:55	Recognitions - Jack and Pam Lemley , and Greeting letter from U.S. Senator Mike Crapo (read by Farhana Hibbert)	
8:55 – 9:00	Introduction of Dr. Harold Blackman by Dean Richard Jacobsen (Ballroom)	
9:00 – 9:30	Keynote Speech by Dr. Harold Blackman , Director of the Center for Advanced Energy Studies, INL (Ballroom)	
9:30 – 10:20	<p align="center">Panel Discussion on Wind Energy Jeff Brown, CEO, Nordic Wind Power, Pocatello, ID Bruce Boatner, Chief Engineer, Blackhawk Project, LLC Philip DeVol, Analyst, Planning Group, Idaho Power Co. (Moderator: Jay F. Kunze, Idaho State University)</p>	
10:20–10:30	BREAK (Ballroom)	
	ENERGY I - (Wood River Room) Moderator: Ray Grosshans, CAES, INL	GEOTECHNICAL I - (Little Wood River Room) Moderator: James Mahar, ISU
10:30 - 10:55	"The Center for Advanced Energy Studies: Report to the Idaho research community" by Ray Grosshans and Oren Hester , The Center for Advanced Energy Studies, Idaho Falls, ID	"A case study on construction dewatering-induced settlement damage: Could this have been avoided?" by Robert L. Mokwa , L. P. Mokwa, and T. P. Mokwa, Civil Engineering Dept., Montana State University, Bozeman, MT
10:55–11:20	"Investigation of public discourse methods in energy policy decision-making" by Jeffrey C. Joe , S. J. Piet, INL; J. C. Freemuth, M. C. Lewis, C. D. Nemnich, Boise State University, Boise; A. Oakes-Hunter, ISU; P. Wilson, T. Hall, University of Idaho, Moscow, ID	"Geotechnical investigations on the mechanism of prehistoric liquefaction flow movement at the Farmington siding landslide complex, Utah" by A.C. Trandafir , Z.A. Amini, and M.D. Hylland, Dept. of Geology and Geophysics, University of Utah, Salt Lake City, UT
11:20–11:45	"The thorium nuclear power cycle - cleaner and less expensive" by Daryll Siemer , INL (retired), Idaho Falls, and Jay F. Kunze , ISU, Pocatello, ID	"Spatial analysis of hillslope failure using high-resolution topographic datasets, southern California" by Kelly M. Whitehead , B.T. Crosby, and J. Mahar, Geosciences Dept., ISU
11:45–12:10	"Electricity supply environmental issues for the intermountain area" by Jay F. Kunze , Dept. of Nuclear Engineering, ISU, Pocatello, ID	"Numerical modeling of the Madison Canyon Rockslide" by Christopher Sherman , M. MacLaughlin, and N. Sitar, Dept. of Geological Engineering, Montana Tech, Butte, MT
12:10 – 1:35	LUNCHEON - Keynote Speaker - Mack Redford, Idaho Public Utility Commission (Ballroom)	
	ENERGY II Moderator: Chikashi Sato, ISU	GEOTECHNICAL II Moderator: Mary MacLaughlin, Montana Tech
1:35 – 2:00	"Nuclear ammonia' - A solution to the world's impending transportation fuel crisis" by Daryll Siemer , INL (retired)	"Reliability based underseepage analysis in levees using Monte Carlo simulation" by Lourdes Polanco and J. Rice, Civil & Environmental Engineering, Utah State University, Logan, UT
2:00 – 2:25	"Single-chamber microbial fuel cell: Effect of electrode surface area on electricity generation" by Rishika Sharma , C. Sato., Dept. of Civil & Environmental Engineering, and M. Shields, Dept. of Biology, ISU, Pocatello, ID	"Seismic surface-wave dispersion curves for long, to 750-m, linear arrays" by Andrew Karasa , H. Murvosh, and B. Luke, Civil & Environmental Engineering and Applied Geophysics Center, University of Nevada, Las Vegas, NV
2:25 – 2:50	"Microbial community analysis of microbial fuel cells" by Zhen Li , E. Sato, R. Sharma, C. Sato., Civil & Environmental Engineering, ISU, and M. Shields, Biological Sciences, ISU	"Modal Testing: An innovative approach to dynamic rock specimen characterization" by Ariel Sarno , N. Hudyma, and D. Hiltunen, Civil Engineering, U. of North Florida, Jacksonville, FL
2:50 – 3:15	"Microbial fuel cells and their benefits to wastewater treatment" by Beltus Abeh , C. Sato, and S. Leung, Civil & Environmental Engineering, ISU, Pocatello, ID	"Digital imaging and analysis of macroporous rock surfaces" by Aaron Zosel , M. MacLaughlin, T. Moon, and N. Hudyma, Dept. of Geological Engineering, Montana Tech, Butte, MT
3:15-3:30	BREAK (Ballroom)	
	ENVIRONMENTAL - WATERSHED Moderator: Ben Crosby, ISU	GEOTECHNICAL III Moderator: Nick Hudyma, Univ. of North Florida
3:30 – 3:55	"Evaluation of beaver ponds as sedimentation basins" by Mike Settell , Dept. of Civil & Environmental Engineering, ISU, Pocatello, ID	"Sustainable pavement maintenance via chip sealing application" by M. Zoghi, U. of California-Fresno; Arya Ebrahimpour , V. Pothukutchi, Civil & Environ. Eng., ISU
3:55 – 4:20	"Influences of topography on spring runoff" by Neil F. Olson , B.T. Crosby, Dept. of Geosciences, ISU, Pocatello, ID	"Geo-sustainable stabilization of collapsible loess soil deposits" by M. Zoghi, U. of California-Fresno; James Mahar , A. Ebrahimpour, M.Y. Araya, P. Katamaneni, Civil & Environmental Engineering, ISU, Pocatello, ID
4:20 – 4:45	"Distinct regimes: The hydrology & geomorphology of twelve tributaries to the Salmon River" by Christopher J. Tennant , B.T. Crosby, Dept. of Geosciences, ISU, Pocatello, ID	"Building damage from thawing of frozen soil" by G.G. Marino, Marino Engineering Associates, Urbana, IL, and James Mahar , Civil & Environmental Engineering, ISU, Pocatello, ID
4:45 – 5:10	"Pacific Ocean and Snake River coupling system and new concepts for water conservation" by Di Wu , J. Wang, University of Massachusetts, Boston, MA	
6:00 – 8:00	BANQUET (Pond Student Union Building) Speaker: Robert Neilson , Technical Director of the Idaho Strategic Energy Alliance	

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7:30 – 8:30	Registration and Coffee (Ballroom)	
	ENVIRONMENTAL – WATER SYSTEMS (Wood River) Moderator: Bruce Savage, ISU	GEOTECHNICAL IV (Little Wood River Room) Moderator: Horng J. Yang, Univ. of Nevada, Reno
8:30 – 9:00	"Numerical modeling of upstream fish passage" by Bruce Savage, Dept. of Civil & Environmental Engineering, ISU, Pocatello, ID	"Using specific gravity of vesicular basalt samples to estimate the unconfined compressive strength of vesicular basalt" by Brian Kuhn, M. MacLaughlin, and N. Hudyma, Dept. of Geological Engineering, Montana Tech, Butte, MT
9:00 – 9:30	"Calvert Mine Pit Lake – A 'Natural' Lake?" by Barbara L. Pape, C.H. Gammons, Dept. of Geological Engineering, Montana Tech, Butte, MT	"Prediction of drained lateral extension behavior from traditional drained axial compression triaxial test" by Horng J. Yang, S. Elfass, and G. Norris, Civil & Environmental Engineering, University of Nevada, Reno, NV
9:30 – 10:00	"Metal characterization in mining impacted sediments along the Coeur d'Alene River near Kellogg Idaho", by Debra Bruhn and N. Yancey, INL, Idaho Falls, ID	"Investigating the effect of low values of macroporosity on the engineering properties of rock using laboratory testing and numerical modeling" by Krista Hanson, N. Hudyma, and M. MacLaughlin, Geological Engineering, Montana Tech, Butte, MT
10:00 – 10:15	BREAK (Ballroom)	
	ENVIRONMENTAL – HAZARDOUS WASTES & ECONOMICS Moderator: Priscilla Reis, College of Business, ISU	GEOTECHNICAL (continued) Moderator: Horng J. Yang, University of Nevada, Reno
10:15 – 10:45	"Rapid bioremediation of soil contaminated with petroleum hydrocarbons and polychlorinated dibenzofurans" by Ted L. Carpenter, P. H. Kelly, and D. Dressler, Bio-Environmental Resource Recovery International, Idaho Falls, ID	"The effect of flat circular pore orientation on engineering properties of rock-like materials with large voids" by Alan Roos, Dept. of Geological Engineering, Montana Tech, Butte, MT
10:45 – 11:15	"Addition of low-temperature heating to in situ reductive treatment of chlorinated solvent DNAPLs" by Tamzen W. Macbeth, CDM, Pocatello; M. J. Truex, PNNL, Richland; M. Michalsen and E. Petri, USACE, Seattle; G. Sandberg and T. Powell, TRS Group Inc., Seattle; K.S. Sorenson, CDM, Denver	"2D Numerical Investigation of the Influence of Macropore Alignment on Strength of Cubic Specimens" by Mary MacLaughlin, C. Jespersen, and N. Hudyma, Dept. of Geological Engineering, Montana Tech, Butte, MT
11:15 – 11:45	"Public Information on Environmental Impact: Corporate Social Responsibility Reporting and G3" by P.R. Reis, Dept. of Accounting, Idaho State University, Pocatello, ID	"Rock attachment methods for fiber optic deformation monitoring systems" by Noni, M. MacLaughlin, H. Wang, and A. Turner, Geological Engineering, Montana Tech, Butte, MT
11:45 – 12:15	OPEN – Posters - (Ballroom)	
12:15 – 1:15	AWARDS LUNCHEON (Ballroom)	
	ENVIRONMENTAL – PUBLIC HEALTH Moderator: John Welhan, ISU and Idaho Geological Survey	GEOTECHNICAL (continued) Moderator: James Mahar., ISU
1:15 – 1:45	"A risk assessment model for ground water septic contamination" by John Welhan, C. Moore, Idaho Geological Survey, Pocatello, ID	"Geophysical investigation of the Mouat superfund site, Columbus, MT" by Jared M. Quilty, C.A. Link, and R.L. McNearny, Geological Engineering, Montana Tech, Butte, MT
1:45 – 2:15	"Detention, quantification, and sequestering of stx1 and stx2 genes in southeastern Idaho wastewater treatment facilities" by Heather Fitzpatrick, C. Sato, M. Shields, Environmental Science & Management program, ISU, Pocatello, ID	"Underground nuclear parks for next generation reactors" by Kellen M. Giraud, J.F. Kunze, ISU, Dept. of Nuclear Engineering; J. M. Mahar, Dept. of Civil Engineering, ISU; C. W. Myers, Los Alamos National Laboratory, NM
2:15 - 2:45	"Water disinfection with in-series ultrasound-ultraviolet light reactor" by Verona Nicolae, C. Sato, Dept. of Civil & Environmental Engineering; M. Shields, Dept. of Biological Sciences, ISU, Pocatello, ID	
2:45 – 3:00	BREAK (Ballroom)	
	STORM WATER (Session Open to the Public – Wood River Room) Moderator: John Sigler, City of Pocatello	
3:00 – 3:30	"Stormwater management requirements for new construction in the Pocatello urbanized area" by Martin Sorenson, Dept. of Civil & Environmental Engineering, ISU, Pocatello, ID	
3:30 – 4:00	"Pocatello storm water management practices: One piece of story - Sacajawea Park" by John Sigler, H., Sanger, City of Pocatello, ID	
4:00 – 4:30	"Pocatello's environmental education programs: Changing public behavior to improve stormwater" by Hannah Sanger, J. Sigler, City of Pocatello, ID	

POSTERS (Ballroom)

"Rapid Response Sensor for Water Quality Measurements at Trace Level" by **Solomon W. Leung**, Y. Wang, and J. C.K. Lai, I SU, Pocatello, ID

"Effects of polluted water intakes on elemental distributions in vital organs" by **Shilpa Siddhanti**, J.C.K. Lai, and S. W. Leung, ISU, Pocatello, ID

"Air-cathode single-chamber microbial fuel cell: Generation of electricity from potato-residue extract" by **Chikashi Sato**, L. Quintana Sánchez, M.S. Shields, M. P. Schoen, and A. Perez-Gracia, Dept. of Civil & Environmental Engineering, ISU, Pocatello, ID

"Relationships of post-fire aeolian transport to soil and atmospheric conditions" by Joel Sankey, **Nancy Glenn**, M. Germino, Dep. Of Geosciences, ISU, Pocatello, ID

"LiDAR canopy height and shape measurements in a sagebrush-steppe ecosystem" by **Jessica. J. Mitchell**, Dept. of Geosciences, ISU, Idaho Falls; and N. F. Glenn, Dept. of Geosciences, ISU, Boise, ID