



Agenda

(continued from previous page)

Thursday, November 4

- 7:30 AM-4:00 PM Registration Desk Open
 7:30 AM-8:30 AM Continental Breakfast
 8:00 AM-12:00 PM Montana Board of Professional Engineers and Land Surveyors Meeting
 9:00 AM-4:30 PM Boulder Hot Springs and Spa Tour for Spouses and Guests
 8:00 AM-12:00 PM **A1 Increasing Human Effectiveness: Managing the Rapids of Change (Part III)** -Mike Reynolds, Edge Learning Institute of Montana
 8:30 AM-12:00 PM **B1 Design of Wood Frame Buildings for High Wind, Snow and Seismic Loadings Using WFCM 2001** -Jeffery B. Stone, Ph.D., C.B.O., American Forest and Paper Association
B2 How is Advanced Technology Changing Transportation Infrastructure, Driving and Training Needs? -Keith Trimels, Federal Highway Administration-Wyoming; Steve Albert, Western Transportation Institute; Richard Wolff, Professor, MSU Electrical & Computer Engineering Dept.
B3 Overview of Water Quality Regulations for Individual and Community Onsite Wastewater Treatment Systems -Eric Regensburger, Hydrogeologist, MT DEQ Water Protection Bureau; Jim Stimson, MT DEQ Source Water Protection Program
B4 HVAC Control Considerations for the 21st Century -Gil Avery, Kele Associates, Memphis, TN
B5 Seismic Analysis Techniques for Geotechnical Engineers -Brian Williams, P.E., P.G., NTL Engineering & Geoscience, Inc., Great Falls
B6 AutoCAD 2005 Productivity Tools and Tips (Hands-on workshop for experienced AutoCAD users.) -Jesse Bailey, Applications Engineer, Mountain CAD
 12:00 PM-1:00 PM Vendor Buffet Luncheon
 1:00 PM-2:30 PM **C1 Lateral Load Resisting Systems for Wood Structures** -Jeffery B. Stone, Ph.D., C.B.O., American Forest and Paper Association
C2 Intelligent Transportation System Development: Variable Message Signs, Wireless CCTV and IP-based Traffic Signal Systems -John Hansen, Skyline Products, Inc.; Russ McCarty, Transcore ITS, Inc.; Sam Sherman, Utah Dept. of Transportation
C3 Floating Tunnels and Frozen Ground, The Big Dig - Boston Central Artery Construction -Dick Weaver, Project Manager, Skillings-Connolly, Inc.
C4 A Review of Balanced Hydronic System Design (Part I) -Mark C. Hegberg, ITT Bell & Gossett, Morton Grove, IL
C5 What's New in AutoCAD 2005? (Hands-on workshop for experienced AutoCAD users.) -Jesse Bailey, Applications Engineer, Mountain CAD
 2:30 PM-3:00 PM Break With Vendors
 3:00 PM-4:30 PM **D1 Designing with the National Design Specifications for Wood Construction (NDS 2001) and the 2001 Wood Frame Construction Manual** -Jeffery B. Stone, Ph.D., C.B.O., American Forest and Paper Association
D2 Intelligent Transportation Systems Implementation and Technology: Ad Hoc Networks, HOV Lanes in the Salt Lake Valley, and Ramp Metering in Colorado -Richard Wolff, Professor, MSU Electrical & Computer Engineering Dept.; Dhruvajyoti Lahon, Utah Traffic Lab; Ali Imansephi & Scott Thomas, Colorado Dept. of Transportation
D3 Project Management for the \$2.4 Billion Woodrow Wilson Bridge Project near Washington DC (Environmental mitigation, community relations and urban politics for a project with 30 contracts, four interchanges, an a 12-lane movable bridge.) -Noreen M. Walker, PE. & James T. Ruddell, PE., Potomac Crossing Consultants
D4 A Review of Balanced Hydronic System Design (Part II) -Mark C. Hegberg, ITT Bell & Gossett, Morton Grove, IL
 4:30 PM-6:30 PM Vendor Reception
 4:30 PM ITS RM and MSE Meetings
 6:30 PM ACEC, ASHRAE and ITE Meetings
 7:30 PM ASCE, IEEE, ICC and SAME Meetings
 9:00 PM SEAMT Meeting

Friday, November 5

- 6:30 AM-8:00 AM 2005 Joint Engineers Conference Planning Meeting
 7:30 AM-5:00 PM Registration Desk Open
 7:30 AM-8:30 AM Continental Breakfast With Vendors
 8:30 AM-10:00 AM **E1 Structural Engineers Emergency Response (SEER) Plan Full Day Seminar (E1, F1, G1, H1)** *Presented by three of the authors of the NCSEA SEERPlan Manual, developed in response to 9/11. The seminar goal is to train engineers, architects and building officials for response to an emergency if requested by local governments or agencies. Full day attendees will receive the SEERPlan Manual and ATC-20-1 - Field Manual for Procedures for Postearthquake Safety Evaluation of Buildings* -August W. Domel, Ph.D., P.E., S.E., Principal, Engineering Systems, Inc.; Thomas McCluskey, S.E., P.E., President, McCluskey Engineering; Chad R. Fischer, Consultant, Engineering Systems, Inc.
E2 Buildings: 2003 I-Codes and Referenced Standards Overview (Part I) -James D. Bowman, C.B.O., American Forest and Paper Association
E3 Intelligent Transportation System Operations: Automated Roadway Closure Systems and Mini-Traffic Operations Centers, Weather Operations and ITS, and Road Weather Information Systems in Surface Transportation -Greg Thompson, ThomTech Design; Ralph Patterson, Utah Dept. of Transportation; Mark Owens, Meridian Environmental Technology, Inc.
E4 Trenchless Horizontal Directional Drilling with Ductile Iron Pipe and Corrosion Protection of Ductile Iron Pipe -Harry O. Niles III, Regional Engineer, Ductile Iron Pipe Research Association, Brush Prairie, WA
E5 High Speed Internet Access - Getting onto the Information Superhighway from Across the Digital Divide -Richard Wolff, Professor, MSU Electrical & Computer Engineering Dept.
E6 Public Awareness for Construction Zone Safety - Summer and Winter -Prudy Hulman, MT Dept. of Transportation
 10:00 AM-10:30 AM Break With Vendors
 10:30 AM-12:00 PM **F1 ATC-20 Introduction on Structural Assessment Training for Earthquake Damaged Structures** -August W. Domel, Ph.D., P.E., S.E., Engineering Systems, Inc.; Thomas McCluskey, S.E., P.E., McCluskey Engineering; Chad R. Fischer, Engineering Systems, Inc.
F2 Buildings: 2003 I-Codes and Referenced Standards Overview (Part II) -James D. Bowman, C.B.O., American Forest and Paper Association
F3 Operating Signalized Arterial Corridors for Small to Medium Cities -Rick Lane, SRF Consulting; Dave Kinnecom, Utah Dept. Of Transportation
F4 Evacuated Heat Tube Solar Hot Water Systems and Photovoltaic Systems -Allan Hardtke, H&H Enterprises of Montana, Inc.
F5 Accessing Certified Soils Information on the NRCS Data Mart Through the Soil Data Warehouse -Michael J. Hansen, Soils Staff, USDA Natural Resources Conservation Service
F6 Audio and Video Display Systems for Schools, Meeting Rooms and Auditoriums -Doug Bliler, AVI Systems
F7 AutoCAD 2005 Plotting Concepts (Hands-on workshop for experienced AutoCAD Users.) -Jesse Bailey, Applications Engineer, Mountain CAD
 12:00 PM-1:00 PM Vendor Buffet Luncheon
 1:00 PM-2:30 PM **G1 Structural Engineers Emergency Response - Seismic Assessments** -August W. Domel, Ph.D., P.E., S.E., Engineering Systems, Inc.; Thomas McCluskey, S.E., P.E., McCluskey Engineering; Chad R. Fischer, Engineering Systems, Inc.
G2 Aircraft Environmental and HVAC Systems -Andre Brasseur, Boeing Company
G3 Coordinating the Woodrow Wilson Bridge Project near Washington DC (Planning began in 1989; scheduled for completion in 2011. Owned by FHWA, administered by Maryland and Virginia DOT's, managed by a GEC, and under budget.) -Noreen M. Walker, PE. & James T. Ruddell, PE., Potomac Crossing Consultants
G4 International Building Code Chapter 17 - Structural Tests and Special Inspections -Neil Poulsen & Cal Doerksen, City of Bozeman Building Division
G5 New Developments in AutoCAD 2005 for Engineers and Surveyors -Jesse Bailey, Applications Engineer, Mountain CAD
G6 Fast Track Concrete Pavement Construction in Urban Corridors -Jim Powell, P.E., Executive Director, American Concrete Pavement Association, Northwest Chapter
 2:30 PM-3:00 PM Break With Vendors
 3:00 PM-4:30 PM **H1 Structural Engineers Emergency Response - Non-Seismic Assessments** -August W. Domel, Ph.D., P.E., S.E., Engineering Systems, Inc.; Thomas McCluskey, S.E., P.E., McCluskey Engineering; Chad R. Fischer, Engineering Systems, Inc.
H2 Geothermal Heat Pump Systems -Cary Smith, CGD, Sound Geothermal Corporation, Sandy, UT
H3 HDD Impactor Assisted Pipe Bursting: Case Study of a 5000 Foot Sanitary Sewer Forecmain and New Trenchless Options -Pat White, P.E., Morrison-Maierle, Inc., Billings; Wing Chan, Earth Tool Company, Territory Manager, Calgary
H4 Growing a Traffic Management/Operations Center From the Ground Up -Terry Little, P.E., PTOE, Ada County Highway District, Boise, ID; David Kinnecom, P.E., PTOE, Utah DOT Traffic Operations Center
H5 Successfully Funding Small Community Infrastructure - USDA Rural Development Community Program Updates -Karen Bucklin Sanchez, P.E., USDA Rural Development, Bozeman
H6 Energy Efficient Lamps and Luminaires for Buildings -Thomas R. Wood, AIA, IES, MSU School of Architecture
 4:30 PM-5:00 PM Sign Up for CEUs
 5:30 PM-8:30 PM Social Hour and Montana Professional Engineers' Hall of Fame Banquet

The 2004 banquet will feature the third induction ceremony for the Montana Professional Engineers' Hall of Fame, sponsored by the Montana Society of Engineers.

Harold S. "Sonny" Hanson, P.E.

Friday, November 5, 2004
 Red Lion Colonial Hotel Natatorium
 5:30 PM ~ Social Hour
 6:30 PM ~ Banquet and Program

Sonny Hanson passed away on June 28, 2004 following an automobile accident. The Montana Society of Engineers honors his memory and lifetime of support for the engineering profession with induction into the Montana Professional Engineers Hall of Fame.

Previous Hall of Fame Inductees include John H. Morrison, P.E., L.S.; Ben F. Hurlbut, P.E.; Leland J. Walker, P.E.; and W. Paul Schmechel, P.E. One banquet ticket is included with each Joint Engineers registration fee. Additional tickets for guests and spouses may be purchased on the registration form.

The Joint Engineers Conference is pleased to offer the following events for all participants and their spouse or guest:

Helena Ghost Tour - Wednesday, November 3
 The ghost tour will begin at 8:00 PM at the Red Lion Colonial Hotel lobby. Ellen Baunier will act as your tour guide for this 1 1/2 hour tour of Historic Helena. You will ride in a heated enclosed trolley with large viewing windows to listen while her haunting tales unfold about ghosts said to inhabit Catholic Hill, the Grand Street Theater, and Carroll College. Your tour will conclude with a walk through a historic cemetery and a stop at the Montana Club.

Boulder Hot Springs and Spa Tour - Thursday, November 4
 This tour begins at 9:00 AM when you will be picked up in the lobby of the Red Lion Colonial Hotel. A full day of local history and relaxation is planned in the Helena area and at the Boulder Hot Springs and Spa located 1/2 hour from Helena. For more information on the Hot Springs go to www.boulderhotsprings.com. Schedule highlights include:
 9:00 AM - 10:00 AM Historic tour of Helena
 10:00 AM - 11:30 AM Wildlife Introduction
 11:30 AM - 12:30 PM Travel to Boulder Hot Springs and Spa
 12:30 PM - 1:30 PM Lunch at Boulder Hot Springs and Spa
 1:30 PM - 2:30 PM Tour Boulder Hot Springs and Spa
 2:30 PM - 4:00 PM Use of Hot Springs or Other
 4:00 PM - 4:30 PM Travel back to Red Lion Colonial Hotel

Costs Per Person: Helena Ghost Tour: \$15.00
 Boulder Hot Springs and Spa Tour: \$40.00
 Helena Ghost Tour/Boulder Hot Springs Tour Package: \$50.00
 Sign up for all tours on the registration form.

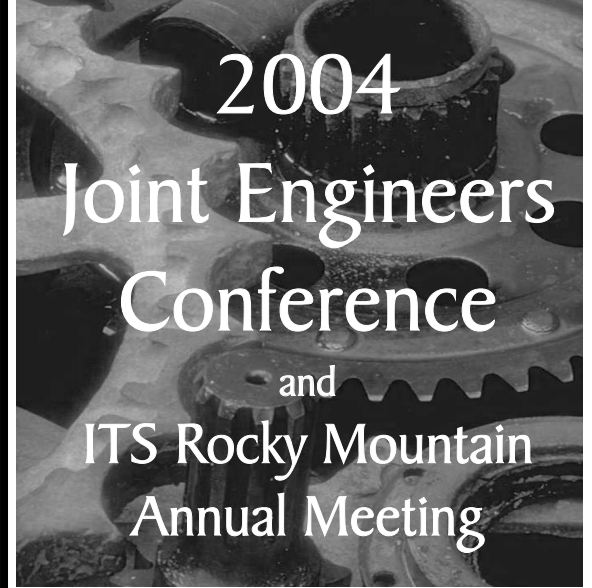
Vendors (to date)

Agenda

H&H Enterprises of Montana, Inc.	3M Company
Hilti, Inc.	ADDCO, Inc.
McCain	AMI Systems
Montana Board of Professional Engineers and Land Surveyors	American Concrete Pavement Association
Montana Contractors' Association	Anderson Precast & Supply, Inc.
Montana Department of Transportation	Big Sky Acoustics, LLC
Montana Society of Engineers	Big Sky Insulations, Inc.
Mountain CAD, LLC	Columbia Hydraulics Company
Northwest Pipe Fittings, Inc.	Contech Construction Products
PBC, Inc.	Cornet Technology, Inc.
Surface Systems, Inc.	CreteX Concrete Products West
Quitote Traffic Corporation	Daktronics, Inc.
Skyline Products, Inc.	Ductile Iron Pipe Research Association
ThomTech Design, Inc.	Earth Tool Company
TransCore ITS	GE Multilin

Wednesday, November 3
 7:30 AM Preconference Registration
 8:00 AM-12:00 PM **AI Increasing Human Effectiveness:**
 Managing the Rapids of Change (Part I)
 -Mike Reynolds, Edge Learning Institute of Montana
 Lunch On Your Own
 12:00 PM-1:00 PM **AI Increasing Human Effectiveness:**
 Managing the Rapids of Change (Part II)
 -Mike Reynolds, Edge Learning Institute of Montana
 1:00 PM-7:00 PM Montana Board of Professional Engineers and Land Surveyors Meeting
 8:00 PM Helena Ghost Tour

Conference Agenda is continued on the inside of brochure.



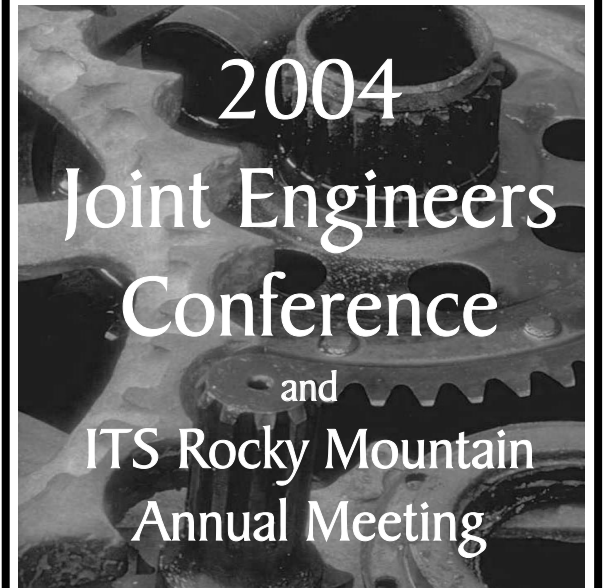
2004 Joint Engineers Conference and ITS Rocky Mountain Annual Meeting

Proudly brought to you by...

- American Council of Engineering Companies of Montana (ACEC)
- American Society of Civil Engineers (ASCE)
- American Society of Heating, Refrigeration & Air Conditioning Engineers (ASHRAE)
- Institute of Electrical & Electronic Engineers (IEEE)
- Institute of Transportation Engineers (ITE)
- Intelligent Transportation Systems - Rocky Mountain Chapter (ITS RM)
- International Code Council - Montana Chapter (ICC)
- Montana Society of Engineers (MSE)
- Society of American Military Engineers (SAME)
- Structural Engineer's Association of Montana (SEAMT)

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2004 Joint Engineers Conference and ITS Rocky Mountain Annual Meeting

Thursday & Friday November 4 & 5
 and
 "Increasing Human Effectiveness"
 preconference
 Wednesday, November 3

**Red Lion Colonial Hotel
 Helena, Montana**