



PRACTICAL SOLUTIONS

for transportation systems

April 6, 2009 - Monday

3:00 pm – 5:00 pm Registration Desk Open

April 7, 2009 - Tuesday

8:00 am – 9:00 am Registration Desk Open and Exhibits Area Open

9:00 am – 9:10 am Flag Ceremony - **City of Boise Police Pipes & Drums with Boise Police Honor Guard**

9:10 am – 9:30 am Welcome - **Lee Gagner, Idaho Transportation Board Member**

9:30 am – 9:50 am Opening Remarks - **Pamela Lowe, ITD Executive Director**

9:50 am – 10:50 am **Kathy Harvey, PE, Missouri Department of Transportation**

10:50 am – 11:30 am Morning Break - Visit Exhibits

11:30 am – 12:30 pm **Lane Beattie, President of the Salt Lake Chamber**

12:30 pm – 1:45 pm Lunch - Falcon's Eyrie

1:45 pm – 2:45 pm **Lynn Iaquinta, HDR Engineering Inc., Oregon Bridge Delivery Partners**

2:45 pm – 3:15 pm Afternoon Break - Visit Exhibits

3:15 pm – 4:15 pm **Anne Canby, President of the Surface Transportation Policy Partnership**

4:30 pm – 6:00 pm Pre-Banquet Social (No-Host Bar)

6:00 pm – 8:00pm Banquet, Awards Presentation and Program - Falcon's Eyrie

Featured Speaker: **Dr. Michael S. Sweeney, "America Hits the Road"**

EXCELLENCE *in Transportation Awards*

...are presented by ITD in recognition of outstanding achievement in the areas of Transportation Planning, Environmental Stewardship, Public Participation, Construction, and Maintenance & Operations. Project boards furnished by the applicants are displayed in the lobby. Entries are due in February and winners will be announced during the banquet.

April 8, 2009 - Wednesday

8:00 am – 8:30 am Exhibits Area Open

8:30 am – 10:10 am **Breakout Sessions***

10:10 am – 10:40 am Morning Break - Visit Exhibits

10:40 am – 12:20 am **Breakout Sessions***

12:20 am – 1:35 pm Lunch - Falcon's Eyrie (Special presentation by **The Fools Squad**)

1:35 pm – 2:20 pm **Breakout Sessions***

2:20 pm – 2:35 pm Afternoon Break - Visit Exhibits

2:35 pm – 3:40 pm **Breakout Sessions***

3:40 pm – 4:00 pm Closing Remarks and Raffle - Falcon's Eyrie

Raffle sponsored by the Associated General Contractors of Idaho

***Planning, Design, Environmental & Materials Breakout Sessions run concurrently on April 8th**

See the following 2 pages for session details

Project Development Conference • April 8, 2009

See page 3 for Materials and Environmental Sessions

<h2 style="text-align: center;">Planning / Traffic</h2> <p style="text-align: center;">Held in the Snake River Room - Sessions run concurrently</p>	<h2 style="text-align: center;">Design / Traffic</h2> <p style="text-align: center;">Held in the Willows & Ponderosa Pines Rooms - Sessions run concurrently</p>
<p>8:00-8:30 Exhibits Area Open - Flying Hawk Eyrie</p>	
<p>8:30-9:00 Making the Case for Enhanced Funding through Statewide Planning Every state has its own approach to bring more funding to transportation, ranging from "do-nothing" to "all politics, all the time" to "planning-based approach" and everything in between. This presentation introduces examples of how states use the Statewide Planning Process to improve their transportation funding situation, including the consequences, pros and cons. Dale Janik, PE, Vice President, Wilbur Smith Associates</p>	<p>8:30-9:00 Developing Stronger Justification for Design Exceptions Having been around as long as standards themselves, Design Exceptions are not new. Over the years, Design Exceptions have taken on a largely negative connotation. But, are Good Design and Design Exceptions mutually exclusive? Is a design without a single exception inherently better than one with exceptions? This presentation seeks to dispel myths associated with Design Exceptions and share best practices to analyze and mitigate for common Design Exceptions, with emphasis on safer projects. Jeff Shaw, PE, PTOE, PTP, FHWA Resource Center</p>
<p>9:05-9:35 Transportation Development Agreements Transportation Development Agreements (TDAs) are new tools developed by the Idaho Transportation Department. TDAs are voluntary agreements between ITD, local land-use planning agencies, MPOs, and developers that coordinate timing of transportation and land-use improvements as well as mitigate issues concerning access and funding for future infrastructure needs based on impacts from new development. Pam Golden, PE, & Sonna Lynn Fernandez, ITD</p>	<p>9:05-9:35 Highway Safety Manual Update An overview on the forthcoming Highway Safety Manual (HSM), anticipated in summer 2009. HSM will be an effective resource to quantify and predict the safety performance of elements considered in road planning, design, maintenance, construction, and operation. A brief overview of major elements will be presented with summary of example applications. Attendees will gain understanding of tools available to facilitate roadway design and operational decisions based on explicit consideration of their safety consequences. Elizabeth Wemple, PE, Kittelson & Associates</p>
<p>9:40-10:10 Local Funding for Transportation Projects There are a variety of funding sources available to smaller transportation agencies for roadway projects. Michael and Clair will review several of these, including bonding, Local Improvement Districts, impact fees and surcharges on existing fees, including specific examples of projects for which each source might be appropriate. Clair Bowman, PhD, & Michael Fuss, PE, City of Nampa</p>	<p>9:40-10:10 Integrating Road Safety Audits and Value Engineering Beginning with an overview of Road Safety Audits (RSAs) practices in the U.S., this presentation advocates for the increased use of RSAs during the preliminary and final design stages of a project. Accordingly, since Value Engineering (VE) is also a design stage activity, this presentation examines how RSAs and VE studies can be conducted in a way that enhances both, and avoids some potential pitfalls of conducting them separately and exclusively of one another. Jeff Shaw, PE, PTOE, PTP, FHWA Resource Center</p>
<p>10:10-10:40 Morning Break - Flying Hawk Eyrie Refreshments in Exhibit Area</p>	
<p>10:40-11:25 US-95 Access Study: Efficient Urban Corridor Traffic Reassignment Techniques for Alternative Analysis This study evaluated the closure of non-signalized median breaks along the corridor and deliver recommendations on how to better manage the flow of traffic on US-95 while still providing essential community access to the highway. The primary goal of the study was to determine ways to effectively manage and balance access to US-95 from adjacent streets and roads without adversely affecting overall transportation system performance for intra and interstate travelers and the local business community. Sean Hoisington, PE, & Mazedur Rahman, PE, David Evans & Associates</p>	<p>10:40-11:25 Practical Design A highway's primary purpose is to move people and goods safely to their destination as efficiently as possible. The need for highway projects has always been greater than available funding. The Idaho Transportation Department (ITD) has found in order to more efficiently use limited funds, it is necessary to review how highway projects are developed and as a result has produced a manual of Practical (Cost Effective) Solutions for Highway Design. ITD has applied practical solutions and in many cases utilized Practical Design on a routine basis for several years. Formalizing this process will help to bring uniformity to Idaho Highway designs. With funding short falls and many competing needs, it is the desire of ITD to use this manual as a guide to building good projects that are safe, cost effective, and meet the needs of the motorist. Jim Ross, PE, H.W. Lochner</p>
<p>11:35-12:20 Access Management & Innovative Intersection Treatments Access management to and from the roadway is the single most critical element in roadway design, operation and public safety. Recapturing roadway capacity requires significant capital investment. In the presentation, the use and benefits of access management will be highlighted. Recent national research and experience will be illustrated including incorporating access management into long range planning, application on rural and urban arterials as well as context sensitive design for local streets, and comparing traffic signal systems to roundabouts in series as a solution to reducing delay and intersection accidents. Phil Demosthenes, Parametrix</p>	<p>11:35-12:20 BridgeWatch: Real-time Bridge Monitoring ITD has implemented BridgeWatch, to monitor scour critical bridges. BridgeWatch, a web-based application, collects and processes real-time data from weather and hydrological sources, meters, gauges and other sensing devices. ITD's adoption of BridgeWatch is an innovative, cost effective way to meet today's heightened expectations for public safety. - Kathleen Slinger, PE, ITD</p>
<p>12:20-1:35 Lunch - Falcon's Eyrie Special Guest: Fool's Squad</p>	
<p>1:35-2:20 High Capacity Intersection Analysis This intriguing session will feature a discussion about innovative intersection applications, including a brief exercise in the application of innovative intersection treatments. Hear from staff and two of the consultants involved in COMPASS' study, which identified optimal designs for nine intersections. Findings included cost/benefit analyses, simulations, and guidelines for appropriate designs for other intersections. Michael Brown, PE, PTP, AICP, WCEC Engineers, Inc.; David Thompson, PE, avenue CONSULTANTS; & Don Matson, AICP, COMPASS</p>	<p>1:35-2:20 Sustainable Engineering Sustainable Design is the approach of meeting today's needs without compromising the ability of future generations to meet their own needs. Leadership in Energy and Environmental Design (LEED) is a well known program for promoting sustainable design in building construction ("vertical" infrastructure). There are also numerous civil engineering advances promoting sustainability in transportation, water and wastewater, landfills, and landscape design that have received less attention. This presentation examines these topics, identifying opportunities and illustrating examples of successful applications of sustainable design in the realm of "horizontal" infrastructure. Mike Worrall, PE, J-U-B Engineering</p>
<p>2:20-2:35 Afternoon Break - Flying Hawk Eyrie Refreshments in Exhibit Area</p>	
<p>2:35-3:05 Idaho's Statewide Comprehensive Plan for Mobility Idaho's Mobility and Access Pathway (IMAP) outlines the vision and scope within a new paradigm for working and furthering public transportation in Idaho, through an approach called "Mobility Management" which is an institutional state of mind that emphasizes moving people instead of the mode of transportation. IMAP describes the way in which the state and its many stakeholders will restructure and refocus themselves so that a meaningful long-term Statewide Mobility Management Plan can be generated and pursued. Randy Kyrias, ITD</p>	<p>2:35--3:40 ITD's Overview of MicroStation XM This presentation will cover the purpose and goals of the ITD CADD Upgrade Project. Also to be introduced are ITD's new CADD Standards, the result of this CADD Upgrade Project. Ray Oldham and Chris Derbidge, ITD and Bentley Systems</p>
<p>3:10-3:40 Visualizing Corridor Health & GIS Analysis The corridor visualization system produces visual displays of how growth in key corridors will affect the future health of the state facilities and how investments can reduce the long-term impacts of the growth. The system includes GIS as the base platform where a variety of data on roadway characteristics, land use, population and employment forecasts, and traffic counts are stored and organized. The system also includes a module for producing travel forecasts from population and employment growth forecasts and from historical trends. Bill Loudon, PE, PhD, DKS Associates; Bill Shaw, PE & Tim Cramer, MS, ITD</p>	
<p>3:40-4:00 Closing Remarks & Raffle - Falcon's Eyrie Raffle sponsor: Associated General Contractors of Idaho</p>	

Project Development Conference • April 8, 2009

See page 2 for Design, Traffic and Planning Sessions

Environmental

Held in the Salmon River Room - Sessions run concurrently

8:00-8:30 Exhibits Area Open - Flying Hawk Eyrie

8:30-9:15 Historic Bridges: A Nationwide Perspective

This presentation will cover the requirements of the National Historic Preservation Act and Section 4(f) to evaluate and preserve historic bridges. Interesting case histories and innovative practices along with requirements for consideration in replacement of historic bridges will be included. Mitigation of project impacts, inventory, retention, rehabilitation, adaptive reuse, and future study of historic bridges will also be covered. **Mary Ann Naber, Federal Historic Preservation Officer, FHWA - Washington DC**

9:25-10:10 Sandpoint Archeological Dig: Show & Tell

Over the past few years, ITD has conducted archaeological data recovery excavations at four National Register Eligible archaeological sites located within the proposed Sandpoint Byway project location. Investigations have uncovered a wide array of artifacts associated with individuals who lived and worked in Sandpoint during the late 1800s and early 1900s. This presentation will provide a brief overview of the archaeological excavations and highlight numerous artifacts including Chinese and Euro-American ceramics, various coins and tokens, medicinal bottles and related items, and a variety of other unique items. **Robert M. Weaver, Environmental History Company**

10:10-10:40 Morning Break - Flying Hawk Eyrie Refreshments in Exhibit Area

10:40-11:45 Lolo Pass Lynx Study

ITD contributed funding to research Lynx in the Lolo Pass area. Hear what the study objectives were, how the study was accomplished, and what we have learned from this endeavor. **Michael Schwartz, US Forest Service - Rocky Mountain Research Station**

11:50-12:20 Wildlife Crossing Information

ITD and the Idaho Department of Fish and Game (IDFG) work closely together during project planning and implementation to minimize and mitigate impacts to fish and wildlife and to insure the best in public safety. This presentation will include wildlife collision data, wildlife linkage and corridor mapping, culvert and fish passage projects and specifications, highway underpasses for wildlife, and mitigation for loss of wildlife habitat. In addition, efforts on data collection and mapping of fish and wildlife information will be discussed in terms of how and when they can be used during project assessment, planning, and implementation. **Gregg Serveen, IDFG**

12:20-1:35 Lunch - Falcon's Eyrie Special Guest: Fool's Squad

1:35-2:20 National Perspective on Wildlife Crossings

Case studies regarding wildlife issues and wildlife crossings from around the country will be presented. Discussion will include how problematic project situations were handled, innovative solutions that were found for difficult situations, and emerging issues regarding wildlife, endangered species, habitat linkage, and wetlands. **Paul Garrett, PhD, FHWA - Office of Natural Environment**

2:20-2:35 Afternoon Break - Flying Hawk Eyrie Refreshments in Exhibit Area

2:35-3:05 Storm Water Management: What the Future holds based on Lessons Learned

ITD has faced significant challenges regarding construction storm water management throughout the state. This presentation provides a brief overview of where the department has been, what's working with the current system, and what the future holds for ITD Construction Storm Water Management Program. **Steve Burgos, Brown & Caldwell**

3:10-3:40 What's New in ITD's Environmental Section

Changes that have occurred or are on the horizon as we move forward will be the topics of conversation. **Sue Sullivan, ITD Environmental Section Manager**

3:40-4:00 Closing Remarks & Raffle - Falcon's Eyrie Raffle sponsor: Associated General Contractors of Idaho

Materials

Held in the Douglas Firs & Cottonwood Rooms - Sessions run concurrently

8:30-9:00 Practical Design using Recycled Asphalt Pavement

Using recycled asphalt pavement saves money. The key to its success is in proper processing, handling and designing. This presentation will identify important issues to be aware of and provide direction for obtaining a better result. **Mike Santi, PE, ITD Asst. Materials Engineer**

9:05-9:35 Warm Mix Asphalt

Warm mix asphalt (WMA) is rapidly advancing toward becoming standard practice. In 2004, demonstration projects started modestly with only a couple hundred tons of production; in 2008 projects grew to hundreds of thousands of tons. How do we implement the technology effectively and ensure long term performance? This presentation will discuss the cooperative WMA implementation and research activities pursued by the highway industry, how WMA specifications will differ from those for hot mix, and how WMA will influence you. **Mathew Corrigan, PE, FHWA - Office of Pavement Technology, Washington DC**

9:40-10:10 Browns Park Byway - FHWA/Local Project using Observational Approach

The Browns Park Byway project is a federal aid project where the county is the roadway's owner. The project consists of two segments of roadway; Segment 1 includes paving and other roadway improvements to an existing roadway and Segment 2 includes a new roadway alignment through scenic mountain terrain. The observational approach was used to complete the design and construction due to difficult and isolated terrain and investigation constraints. **Stanley Crawford, PE, American Geotechnics**

10:40-11:10 Updates on Mechanistic Empirical Pavement Design Guide (MEPDG)

This session will be an overview of MEPDG, along with a report on implementation status. MEPDG has been accepted as an AASHTO interim guide in 2007. MEPDG offers significant improvement in the ability to develop reliable design for changing conditions, including changes in truck configurations and material properties. This presentation will provide a detailed description of the traffic inputs, and a discussion of the impact of various traffic inputs on pavement design. **Tom Yu, PE, FHWA - Office of Pavement Technology, Washington DC**

11:15-11:45 Perpetual Pavement

Perpetual pavement presents a concept of long-lasting structural design, construction and maintenance. ITD's first perpetual pavement is being constructed on I-84. This presentation discusses ITD's experience with this type of pavement design and construction. **John Andreae, PE, Terracon**

11:50-12:20 University Students' Presentation: Lime-Fly Ash Soil Subgrade Stabilization

Research report on the performance of lime-fly ash stabilization of sub-base/base course and sub-grade pavements. **Meron Yosief Araya and Andrea Tone, Idaho State University**

1:35-2:20 Basics of Self-Consolidating Concrete

Self-consolidating concrete (SCC), also known as self-compacting concrete, is a highly flowable, non-segregating concrete that can spread into place, fill formwork, and encapsulate even the most congested reinforcement without any mechanical vibration. As a high-performance concrete, SCC delivers these attractive benefits while maintaining all of concrete's customary mechanical properties and durability characteristics. As ITD's experience with SCC is minimal, this presentation is intended to cover the basics of SCC to educate designers on this material. **Rob Shogren, PE, Lafarge North America**

2:35-3:05 Conservative/Unconservative AASHTO LRFD Foundation Design

This presentation will examine several foundation design procedures provided in the AASHTO LRFD Bridge Design Specifications and discuss when these design procedures may be too conservative or unconservative for use during a bridge design analysis. **Charles Burgert, PE, American Geotechnics**

3:10-3:40 Pavement Preservation Techniques

Pavement preservation is a planned system of treating pavements at the optimum time to maximize their useful life, thus enhancing pavement longevity at the lowest cost. This presentation will discuss various types of pavement preservation techniques and their respective advantages and disadvantages. Discussions will include how to choose the right pavement preservation technique for the right project. **Delmar Salomon, PhD, Pavement Preservation Systems, LLC**