

**ENGINEERS WEEK**<sup>®</sup> Engineers Make a World of Difference

**FEBRUARY 14–20, 2010**

REX W. TILLERSON, Chairman and Chief Executive Officer, ExxonMobil, Honorary Chair, Engineers Week 2010

BLAINE D. LEONARD, P.E., 2010 President, American Society of Civil Engineers, Chair, Engineers Week 2010

## **Welcome to the 2010 Engineers Week Workshop and Dinner**

### **“Opportunities for Engineering During Economic Recovery February 19, 2010**

The National Engineers Week Foundation coalition comprises more than 75 engineering, professional, and technical societies and more than 50 corporations and government agencies. The coalition is dedicated to sustaining and growing a dynamic engineering profession by ensuring a diverse and well-educated future engineering workforce, increasing understanding of and interest in engineering and technology careers among young students, and promoting pre-college literacy in math and science. Among the oldest of America’s professional outreach efforts, the coalition also raises public understanding and appreciation of engineering contributions to society through year-round innovative programming and celebration.

Engineers Week recognizes engineers and celebrates engineering achievements that have improved and advanced our lives. Engineers use their imagination and analytical skills to invent, design, and build things that matter. They are team players with independent minds who turn ideas into reality. By dreaming up creative and practical solutions, engineers are changing the world all the time. Engineering has been called the “invisible” or “stealth” profession. Everything around us and that we use every day has been engineered in some way yet we may not see the engineers behind the scenes or know much about engineering.

Engineering societies in every state are celebrating Engineers Week with a multitude of programs and projects.

DoubleTree Hotel  
Denver, Colorado

## 2010 Engineers Week Workshop - Agenda

7:45 – 7:50 am	<b>Welcome, Opening Remarks – President NSPE-Colorado, Nate Dowden, PE</b>		
7:50 – 8:30 am	Setting the Stage  .5 PDH	<b>Jeff Holwell, OEDIT</b>	A Framing of Current and Projected Economic Trends in Colorado
8:30 – 10am	<b>Energy Panel</b>  <b>Moderator: Paul Gulman, PE</b>  1.5 PDH	<ol style="list-style-type: none"> <li>1. <b>Tom Poeling, PE</b></li> <li>2. <b>Laura Farris, EPA</b></li> <li>3. <b>Mona Newton, GEO</b></li> </ol>	<ol style="list-style-type: none"> <li>1. and in an Economic Recovery</li> <li>2. Carbon Considerations for Infrastructure Projects</li> <li>3. State Priorities and Funding Opportunities for Energy Projects in Colorado; ECBCGs stimulus funding</li> </ol>
10 – 10:15 am	Networking Break		
10:15 – 11:45 am	<b>Transportation Panel</b>  <b>Moderator: Rick Coldsnow, PE</b>  1.5 PDH	<ol style="list-style-type: none"> <li>1. Steve Rudy, PE, DRCOG</li> <li>2. Keith Reester</li> <li>3. Rob MacDonald</li> <li>4. Carla Perez, Governors Office.</li> </ol>	<ol style="list-style-type: none"> <li>1. Upcoming DRCOG Projects</li> <li>2. How City of Loveland DPW Utilizes Maintenance Fees to Fund Improvements</li> <li>3. Upcoming Needs of PPACOG</li> <li>4. FASTER funding</li> </ol>
12 – 1:30 pm Lunch	1 PDH	<b>Jeff May, ASCE-Colorado</b>	ASCE Infrastructure Report Card for Colorado
:45 – 3:15 pm	<b>Water Panel</b>  <b>Moderator: Mike Fink, PE</b>  1.5 PDH	<ol style="list-style-type: none"> <li>1. Gary Barber, Basin Roundtable</li> <li>2. Doug Kemper, Colorado Water Congress</li> <li>3. John Fredell, Colorado Springs Utilities</li> <li>4. Kevin Meador, Black &amp; Veatch</li> <li>5. Carl Brouwer, NCWCD</li> </ol>	<ol style="list-style-type: none"> <li>1. IBC / Roundtable Planning Process</li> <li>2. Water Concerns 4 Weeks into the 2010 Legislature</li> <li>3. SDS Project</li> <li>4. AV Conduit</li> <li>5. Northern Colorado Water Conservancy District</li> </ol>
3:15 – 3:30 pm	Networking Break		
3:30 – 5 pm	<b>Built Environment</b>  <b>Moderators: Bill Hyatt, PE and Paul Bakken, PE</b>  1.5 PDH	<ol style="list-style-type: none"> <li>1. Hal Alquire, Ft. Carson</li> <li>2. John Leatherman, GSA</li> <li>3. Norbert Klebl</li> <li>4. Richard Romig, PE</li> </ol>	<ol style="list-style-type: none"> <li>1. 2010 Capital Improvements Program</li> <li>2. US General Services Administration</li> <li>3. Geos Development</li> <li>4. AECOM – Denver Union Station</li> </ol>

# 2010 Engineers Week Dinner

## Opportunities for Engineering during Economic Recovery

5:00 pm to 6:30 pm  
5:45 pm to 7:30 pm  
6:30 pm to 9:00 pm

Reception  
Order of the Engineer Ceremony  
Dinner

Master of Ceremonies, Nathan Dowden, PE, President of NSPE-Colorado

Keynote Speaker, Tisha Conoly Schuller,  
President of the Colorado Oil and Gas Association

“How the Colorado Oil and Gas Industry  
Plans to Move Forward in a Recovering Economy”



The ASME Colorado Section is proud to participate  
in Engineers Week and sponsor NSPE-CO

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[sections.ASME.org/Colorado](http://sections.ASME.org/Colorado)

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Diana L. Dean, P.E., F.NSPE  
and  
Michael R. Fink, P.E., F. NSPE  
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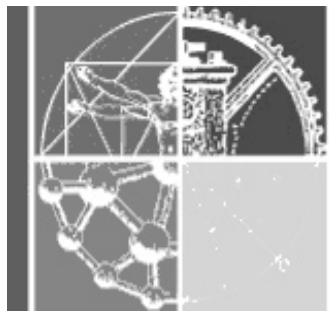
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## 2010 Engineers Week – Colorado

## Speakers

### “Opportunities for Engineering During Economic Recovery”



#### **Jeff Holwell, OEDIT**

Division Director of Business Development at the Colorado Office of Economic Development and International Trade (OEDIT), Holwell joined the OEDIT staff as the metro Denver Business Development Representative in April 2004 and became the Division Director of Business Development in May 2005. In this position he leads the state's economic development activities with the intent to grow and retain quality primary jobs in Colorado; he works closely with local businesses, governments, and economic development organizations to achieve these goals. In addition to those duties, he provides day-to-day management of the activities and members of OEDIT's Business Development Division.

Prior to OEDIT, Jeff served as Manager of Public Affairs and Economic Development at the South Metro Denver Chamber of Commerce and as Community Services Manager at the Town of Superior. He also is a graduate of the Economic Development Institute at the University of Oklahoma. Holwell attended the University of Colorado and received his Master's degree at its Graduate School of Public Affairs. Jeff, a Denver resident, is a Colorado native and was born and raised in Littleton.

### Energy Panel



#### **Moderator: Paul Gulman, PE**

Mr. Gulman has a degree in Mechanical Engineering and is a licensed Professional Engineer. Before focusing on Energy Efficiency and Renewable Energy, he designed production machinery for various industries and worked on Airborne Structures and Mechanisms for Space Launch Vehicles. For 20 years he has worked on Wind Turbines and Hybrid Electric Vehicles. He engineered part of the hybrid electric power system for RTD's 16th Street Mall Shuttle Buses. Mr. Gulman is a founding trustee and the first president of the Professional Engineers of Colorado Education Foundation, and has worked on MATHCOUNTS at local, state, and national levels for 27 years.



#### **Laura Farris, EPA**

Laura received her formal education as a Mechanical Engineer. She has twenty years experience building upon that education - focusing her work on environmental protection. She has worked for a variety of federal agencies, an environmental non-profit, and as an elected official, specializing in pollution prevention, sustainable development, and climate change. Laura currently is the Climate Change Coordinator for the regional office of EPA in Denver, CO



#### **Tom Poeling, PE, CCP, CEM**

Mr. Poeling is a Vice President with E M C Engineers, Inc., with over 17 years experience in the field of energy conservation and the optimization of HVAC systems. He is a graduate of Colorado State University in Mechanical Engineering, and a registered Professional Engineer, Certified Energy Manager and LEED™ AP. He has overall responsibility for managing EMC's significant Commissioning (Cx) and Retro-commissioning (RCx) projects in the western region. He has extensive experience with K-12 and university facilities, commercial, institutional and healthcare buildings.

Tom is a member of the Building Commissioning Association (BCA) and a Certified Commissioning Professional (CCP). He is currently serving on the Board for the Southwest Chapter of the BCA

## Transportation Panel



### **Moderator: Rick Coldsnow, PE**

Rick Coldsnow, PE is the Municipal Services Practice Center for the Western Region of Short Elliott Hendrickson Engineers overseeing staff in Denver, Lakewood and Pueblo.

He has over 30 years of design and project management experience for municipal infrastructure projects, including over 20 years in Colorado. For the past two years he has served as contract Capital Improvement Manager for the City of Centennial and has been a member on the Aurora Chamber of Commerce Transportation Committee for the last seven years. He was also a member of the Silverthorne Colorado Town Board of Trustees. He is Past President of NSPE Colorado and has served in several NSPE chapter and state roles in Colorado and Wyoming



### **Keith A. Reester, Jr., City of Loveland**

Currently Keith Reester serves as the Director of Public Works for the City of Loveland, Colorado; and has served in that role for over 7 years. Keith also provides consulting services to private sector clients nationwide under the flagship of Reester & Associates; his clients include contractors, engineers, and associations. Prior to this assignment he spent several years in the private sector as a management consultant, traversing North America and working with a diverse client base helping to improve their business success.

In addition, several years were spent working with the world's largest solid waste and recycling company Waste Management, Inc, and leading very ethnically diverse work forces. Early in his career, Mr. Reester had the fortunate experience to work in the public sector in a mid-size city in New York. In 2007, Keith traveled to Australia to represent the Eisenhower Institute and American Public Works Association as a Randolph Jennings Fellow, sharing and learning innovative ideas. In 2007 Keith was also named one of 25 Industry Trendsetters by Public Works Magazine. In 2009 Keith was named one of twelve members of the American Public Works Association's inaugural Center for Sustainability; the group is engaged in defining the future for sustainability in the public work industry.

### **Rob MacDonald, PPACG**

Rob is currently the Executive Director of the Pikes Peak Area Council of Governments (PPACG). He has served in this position since 2004. In this capacity, Rob oversees 28 staff members, six programs, and administration. From 1999 to 2004, Rob served as the Transportation Program Director at PPACG.

In 2005, Rob was appointed as Board Secretary to the newly formed Pikes Peak Rural Transportation Authority (PPRTA). He also serves on the Colorado State Transportation Advisory Committee, the Colorado Springs Airport Advisory Commission, and the Powers Boulevard/Major Thoroughfares Task Force Policy Committee.

Rob's 20-year career has been evenly split between the private and public transportation engineering/planning sectors. He is a registered professional engineer in Colorado and has worked on projects ranging from Boston's multi-billion dollar "BIG DIG" to neighborhood traffic studies. Within the range of assignments, Rob has managed multi-million dollar capital improvement programs for cities and regions, managed parking systems, and planned and designed a variety of transportation infrastructure projects. He has written several articles related to transportation engineering and has been an invited speaker to various local and national conferences. Rob holds a Bachelor of Science in Civil Engineering from Northeastern University and a Master of Public Administration from the University of Colorado. A native of the Boston area, Rob and his family have made Colorado Springs home since 1991.



### **Steve Rudy, DRCOG**

Steve Rudy is the Director of Transportation Planning and Operations at the Denver Regional Council of Governments—DRCOG ("doctor cog"). An engineering graduate of Cornell University and the University of California at Berkeley, he has more than 30 years experience working in the fields of traffic engineering, transportation operations, and transportation planning--with consultants, local government, and DRCOG. He is a registered P.E. He directs the development of DRCOG's Transportation Improvement Program (TIP), coordinated the process DRCOG utilized to select projects to receive ARRA (stimulus) transportation funding in 2009, and has kicked off initial planning to respond to a 2010 stimulus program if (or when) Congress adopts such.

## Water Panel

### **Moderator: Mike Fink, PE**

Michael Fink is member of NSPE-Colorado (Pikes Peak Chapter), licensed in Indiana as a Land Surveyor and in Indiana, Illinois, Ohio, Colorado, Michigan, Wisconsin, Virginia, D.C., Maryland and New Jersey as a P.E. His undergraduate BSCE is from Valparaiso University; his MSCE is from Illinois Institute of Technology. Mr. Fink is Past-President of the Indiana Society of Professional Engineers, a former NSPE National Director and is currently the Water Resource Engineer for the City of Fountain, Colorado. He has served as an ABET Commissioner and as a Committee Member on National Committees both in ASCE and NSPE

### **Gerald L. (Gary) Barber**

Gary is originally from Colorado Springs, graduating from the U.S. Air Force Academy in 1976 and returning in 1993 to raise a family. He has been involved in commercial real estate brokerage, water rights brokerage and consulting to public and private entities. Gary represents the El Paso County Water Authority, the Pikes Peak Regional Water Authority and manages two Metropolitan Districts, quasi-municipal governments formed to provide public services and resolve water issues of various types. He is currently chairman Arkansas Basin Roundtable, a collaborative group of representatives from the counties, cities and special interests in Southern Colorado, attempting to address the consumptive and non-consumptive needs for water in the future.

### **Douglas Kemper, Colorado Water Congress**

Doug Kemper is the Executive Director of the Colorado Water Congress. He served on the Board of Directors from 1990 through 2003 and was elected CWC President (1994) and Treasurer (1996-2003). He holds degrees in Water Resources Engineering from University of Colorado (Masters) and Vanderbilt University (Bachelors) and is a registered Professional Engineer. Prior to joining the Water Congress, Doug spent 20 years as the Water Resources Manager with Aurora Water. He was responsible for the planning, development, and operation of the city's raw water supply system. His activities included water policy and legislative analysis, acquisition of new water supplies, system modeling, and development of intergovernmental agreements. Doug began his water resources experience by working for 4 years as an engineer with Rocky Mountain Consultants. His primary duties were analysis of agricultural water use, water supply modeling, dam safety risk assessments, and water quality remediation studies

### **John Fredell, SDS**

John Fredell was selected as the Project Director for the Southern Delivery System (SDS) in September 2007. In that role, Mr. Fredell is responsible for planning, permitting and construction of the SDS, a major water delivery system that will bring water from the Arkansas River to Colorado Springs and its project partners. John has been with Colorado Springs Utilities since 1993, and has been closely involved with development of the Southern Delivery System since 2002. Prior to his selection as SDS Project Director, he held other legal positions with Colorado Springs Utilities, most recently Deputy City Attorney-Utilities. In that role, he served on the Chief Executive Officer's leadership team. The Southern Delivery System (SDS) is a regional project to bring water from the Arkansas River to the Southern Colorado communities of Colorado Springs, Fountain and Security and Pueblo West.

### **Kevin J. Meador, Black & Veatch**

Kevin has been a project manager with Black & Veatch Corporation in Denver since 2000. Throughout his 30 year engineering career, he has designed and managed a wide range of water and wastewater projects in the Rocky Mountain region. A native of South Dakota, Kevin earned a Bachelor of Science Degree in civil engineering from South Dakota School of Mines and Technology and is a registered professional engineer in Colorado. He enjoys the Colorado outdoors and high school basketball officiating.

### **Carl Brouwer, PE, PMP**

Carl Brouwer is a Project Manager for the Northern Colorado Water Conservancy District. He has 23 years of experience in the planning, design and implementation of water projects. He has worked for Northern Water for 19 years and is presently the Project Manager for NISP. His experience also includes being project engineer and then project manager on the Southern Water Supply Project, which consists 110 miles of raw water transmission extending from Carter Lake Reservoir south to Broomfield and east to Fort Morgan. Mr. Brouwer graduated with a Bachelors degree in Civil Engineering from University of Michigan and a Masters degree in Civil Engineering from Colorado State University. He is married to his wonderful wife Jana and has three children. In his spare time he enjoys camping, helping with Boy Scouts, and tending a few cows on his mini-farm.

**Built Environment Panel**  
**Moderators: Bill Hyatt PE/ Paul Bakken, PE**



**John Leatherman, GSA**

John Leatherman began his career with the General Services Administration in November, 2002 working as a project manager. As a project manager in the GSA's Public Building Service he has managed the design and construction of numerous federal construction projects for various federal agencies in Colorado. John's experience in federal construction projects ranges from renovations in historic federal buildings to security projects for federal law enforcement agencies. In addition to project management, John has also worked as a senior property manager for GSA, managing federal buildings and courthouses in GSA's inventory. Currently John works for the Regional Recovery Executive managing the execution of GSA's Recovery Act projects in Region 8. Prior to GSA, John worked as a project coordinator for a General Contractor based in Steamboat Springs, Colorado on commercial and industrial projects on Colorado's western slope. Education: University of Denver, Daniels College of Business, Denver, Colorado, B.S.B.A. - Construction Management



**Hal Alguire, Fort Carson**

Hal Alguire is currently serving as the civilian Director of Public Works at Fort Carson, Colorado. He was hired into this position in February of 2007. Born in Lima, Ohio on 4 March 1956, Hal graduated from the United States Military Academy at West Point in 1978 as a Second Lieutenant in the Engineer Branch, U.S. Army.

Army assignments have provided Hal with a variety of engineering experiences only a few are included here:

- In 1989, he returned to the United States as the Operations Officer of the 52nd Engineer Battalion at Fort Carson, Colorado. During his tour with the 52nd, the entire battalion deployed to the Persian Gulf and participated with the 20th Engineer Brigade in Desert Storm.
- Hal was assigned as the Deputy District Engineer of the Jacksonville District Corps of Engineers in 1991. During this three-year assignment, Hurricane Andrew struck south Florida. Hal, along with the entire district and much of the Corps, supported the large clean-up and recovery effort.
- For the next six years, COL Alguire served as Director of Public Works on three separate Army installations. After a short 10-month assignment as the Deputy Director of Public Works at Fort Eustis, Virginia, COL Alguire was assigned in 1995 as the Director of Public Works for Fort Monroe, Virginia, home of the Training and Doctrine Command Headquarters. He then was selected and served as Director of Public Works for Fort Leonard Wood, Missouri from 1998 to 2000. While at Fort Leonard, he managed the \$250M facilities construction and renovation program in support of the Military Police and Chemical Schools move from Fort McClellan, Alabama to Fort Leonard Wood.

After retiring in June of 2004, Hal was hired by Tetra Tech, Inc to serve as an engineering consultant. For the next two years, Hal provided support to sustainability work at Fort Carson and the Pueblo Army Depot while pursuing engineering opportunities for Tetra Tech.

**Richard Romig, AECOM Transportation**

Richard Romig, PE, is the Technical Director of the Denver Office of AECOM Transportation. He is also the Deputy Project Manager for the Design of the Denver Union Station Project. Rick has 25 years of engineering experience in the transportation field, including highway, bridge, light rail, multimodal, and tunneling projects.

**Keynote Speaker, Engineers Dinner**

Tisha Conoly Schuller, President  
Colorado Oil and Gas Association



Ms. Tisha Conoly Schuller serves as President of the Colorado Oil & Gas Association. As President, Ms. Schuller is responsible for leading the industry in Colorado legislative, regulatory, and public relations matters. Previously, Ms. Schuller served as a Principal and Vice President with Tetra Tech, a national environmental consulting and engineering firm. In addition to running business operations, Ms. Schuller has spent the last 15 years conducting environmental permitting for oil and natural gas projects across the country. She has a B.S. in Earth Systems with an emphasis in Geology from Stanford University

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