



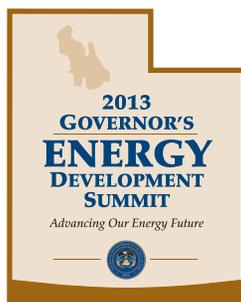
2013
Governor's

ENERGY DEVELOPMENT SUMMIT

Advancing Our Energy Future

Salt Palace Convention Center

January 10-11, 2013



FOR MORE INFORMATION VISIT
www.energy.utah.gov



Office of Energy Development



GARY R. HERBERT
GOVERNOR

STATE OF UTAH
OFFICE OF THE GOVERNOR

GREG BELL
LIEUTENANT GOVERNOR

January 10, 2013

Dear Utah Governor's Energy Development Summit Participants,

I am very pleased to welcome you to the second annual Utah Governor's Energy Development Summit.

The State of Utah has an extraordinary collection of energy resources that position us well for continued economic growth and prosperity. Households and small businesses enjoy some of the lowest energy costs in the nation, enabling greater investment in families and communities. Those low costs also help Utah's foundational industries and institutions thrive, and their success serves as the single best job recruitment tool, bringing new companies to Utah and solidifying the State's reputation as the nation's best state for business.

As we celebrate our economic achievement, it is important we tell the story of Utah's diverse energy industry. At the outset of my administration, I identified energy as one of the four cornerstones of economic recovery and prosperity, and worked to create a Ten-Year Strategic Energy Plan and an Office of Energy Development. These efforts provide new tools for companies and communities leading the way in the responsible development of Utah's conventional, unconventional, renewable, and energy efficiency resources.

My hope is that this second annual Energy Summit will provide a constructive forum that further advances your industry's goals in Utah. By coming together to identify shared objectives and opportunities, I am confident that we can bolster Utah's position as an energy leader, and guarantee a bright future for the State's economy and its environment, while at the same time advancing energy independence, both regionally and nationally.

Sincerely,

A handwritten signature in black ink that reads "Gary R. Herbert".

Gary R. Herbert
Governor



GARY R. HERBERT
Governor

GREG BELL
Lieutenant Governor

Office of the Governor

CODY B. STEWART
Energy Advisor

SAMANTHA MARY JULIAN
Director, Office of Energy Development

January 10, 2013

Dear Utah Governor's Energy Development Summit Participants,

As the newly appointed Energy Advisor to Governor Gary R. Herbert, I am excited to welcome you back for our second annual Utah Governor's Energy Development Summit.

Governor Herbert's Ten-Year Strategic Energy Plan provides Utah's energy advocates with an important roadmap that addresses reliability, affordability, diversity, and sustainability, and this summit has been crafted to explore those broad goals within the context of economic development.

Given Utah's near-endless supplies of fossil and renewable resources, as well as conservation opportunities, we can expect a very promising energy future; however, complacency is not an option. In order to retain its position as a leader on the energy front, Utah must cultivate energy education, advance thoughtful energy policies, incent responsible development activities, and recruit those companies that represent the technologies and opportunities of the future. This Energy Summit is demonstrative of the proactive approach to energy development that I have just described, and it will be a critical forum through which industry, government, and other stakeholders will address the state's most consequential energy issues.

I would like to commend the Utah Office of Energy Development for its tireless efforts organizing this event. As an office whose mission is to provide leadership in the balanced development of all Utah's energy resources, the Utah Governor's Energy Development Summit is a step in the right direction. Whatever your particular interest in Utah's energy landscape may be, today's event will offer you valuable networking opportunities, project updates, and policy insights, and I sincerely welcome your attendance and active participation.

Regards,

Cody B. Stewart
Energy Advisor

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UTAH GOVERNOR'S ENERGY DEVELOPMENT SUMMIT

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Let's turn the answers on.



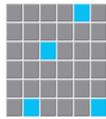
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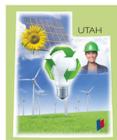
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UTAH GOVERNOR'S ENERGY DEVELOPMENT SUMMIT

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UTAH GOVERNOR'S ENERGY DEVELOPMENT SUMMIT AGENDA

Day 1 - January 10, 2013					
7-8		Registration			
8-9		Opening Plenary Speakers			
9-10:30	Hot Topics	Conventional	Unconventional	Renewable	Efficiency
		<i>Federal Lands Issues</i>	<i>The Real Impacts of Oil Shale & Oil Sands Development in Utah</i>	<i>Bridging Resources: Where Conventional & Renewable Resources Meet</i>	<i>Transportation Options for an Unpredictable Energy Future</i>
10:30-11		Tradeshow/Networking			
11-12:30	Energy in the National & International Economy	Conventional	Unconventional	Renewable	Efficiency
		<i>Energy & the Economy</i>	<i>The Global Oil Shale & Oil Sands Industry</i>	<i>Global Markets & Utah's Adoption Timeline for Renewable Energy</i>	<i>Financial Pathways for Energy Efficiency Projects</i>
12:30-2:30		2013 Governor's Excellence in Energy Awards			
		Utah Federal Delegation Keynote Panel Discussion			
2:30-4	Technology & Innovation	Conventional	Unconventional	Renewable	Efficiency
		<i>Technology: How it is Changing the Energy Landscape</i>	<i>The Future of Nuclear Energy</i>	<i>The Future of Electric Transmission in the West</i>	<i>Advanced Manufacturing Partnerships - Industrial Energy Efficiency Panel</i>
4-6		Networking Reception			

Day 2 - January 11, 2013					
7:30 - 8:30		Registration/Light Breakfast			
8:30-10	Hot Topics	Conventional	Unconventional	Renewable	Efficiency
		<i>Energy & the Environment: Responsible Energy Development</i>	<i>The Opportunities & Challenges of Developing Nuclear Energy in Utah</i>	<i>Increased Fire Hazards & the Biomass Resource Connection</i>	<i>Energy Efficiency at Work & Play: Success Stories from the Field</i>
10 - 10:30		Networking Break			
10:30 - noon	Technology & Innovation	<i>Technology Showcase</i>	<i>Accessing Utah's Unconventional Resources</i>	<i>Reducing the Risk & Cost of Geothermal Exploration in Utah</i>	<i>WGA: The West as the Nation's Energy Breadbasket: Driving America Toward Clean Energy and Energy Security</i>
Noon		Box Lunch			
12:15 - 1:45	Energy Development Wrap Up	<i>Uintah Basin Air Quality</i>	<i>Utah Energy Research Triangle Initiatives</i>	<i>Solar PV Installation Training</i>	<i>Utah Cluster Acceleration Partnership - Energy & Higher Education</i>
1:45		Sessions Adjourned ---- Meet for Tours			
(Optional) Utah Geologic Survey Core Research Lab		(Optional) Little Cottonwood Canyon Hydroelectric Plant	(Optional) City Creek Shopping Center	(Optional) University of Utah Nuclear Research Reactor	(Optional) Natural History Museum of Utah Rio Tinto Center

ENERGY SUMMIT TOURS – DAY 2

We are excited to introduce a new addition to the 2013 Governor's Energy Development Summit. At the end of the second day we will be hosting a series of energy related tours in facilities throughout the Salt Lake Valley. Please join us to experience first-hand the great diversity of energy resources the great state of Utah has to offer. The tour locations are within 30 minutes of the Salt Palace Convention Center. Tour leaders will facilitate transportation to and from the energy sites. Tours will meet immediately following the close of the last session.

Utah Geologic Core Research Lab

The Utah Geological Survey's Utah Core Research Center currently holds cuttings from more than 3,500 drill holes; core samples from more than 700 drill holes; a collection of type oils from all producing formations in the state; representative coal samples from Utah's producing coal mines; and miscellaneous samples of metallic minerals, industrial rocks and minerals, tar sands, oil shale, geothermal wells, and surface stratigraphic sections. Come see tangible examples of Utah's diverse energy resources.



Little Cottonwood Canyon Hydroelectric Plant

The Wasatch Mountains, aside from being a world class skiing and recreation destination, also offer the Salt Lake valley another valuable resource in the form of hydroelectric power. Please join us on a tour of the locally owned Little Cottonwood Canyon Hydroelectric Power Plant. Power is generated at two turbines within Little Cottonwood Creek and is transferred onto the larger power grid. Come and see this amazing renewable energy resource first hand.



City Creek Shopping Center

At The City Creek Shopping Center, you will see the latest in high-tech plant heating technology and application of efficient design. Great pains were taken to create one of the most efficient boiler plant systems in the United States, which delivers high-efficiency natural gas heat to a variety of locations, residences, facilities and unusual applications within the City Creek complex. You'll then be offered a tour of the retail aspects of the City Creek Center itself.

University of Utah Nuclear Research Reactor

The University of Utah Nuclear Engineering Program (UNEP) offers doctoral and master degrees and is involved in a variety of important energy and medical research. UNEP has one of only 33 active nuclear research reactors in the country. Along with touring the research reactor, attendees will learn more about the University of Utah's Nuclear Engineering Program and visit the nuclear forensics lab.



Natural History Museum of Utah Rio Tinto Center

Come explore the unique architecture of Utah's Natural History Museum and learn about its many energy efficiency and green design features. Learn how Rocky Mountain Power and the museum design team partnered to promote building energy efficiency and to showcase renewable energy in the form of a large rooftop solar photovoltaic installation. Originally situated at the University's Presidents Circle for forty-two years, the museum's Rio Tinto Center, located in upper Research Park near Red Butte Garden and the Bonneville Shoreline Trail, represents a new chapter in the museum's own history.



UTAH GOVERNOR'S ENERGY DEVELOPMENT SUMMIT

AGENDA

DAY ONE

7:00 a.m. – 8:00 a.m.

Registration

8:00 a.m. – 8:05 a.m.

Kickoff

Samantha Mary Julian, Director
Office of Energy Development

8:05 a.m. – 8:15 a.m.

Welcome Comments

Cody B. Stewart, Governor's Energy Advisor

8:15 a.m. – 8:25 a.m.

Opening Remarks

Ronald W. Jibson, President and CEO
Questar Gas; Chairman American Gas Association

8:25 a.m. – 8:45 a.m.

Welcoming Address

**Shades of Energy: the West Leading America
into Electrifying New Territory**

James D. Ogsbury, Executive Director
Western Governors' Association

9:00 a.m. – 10:30 a.m.

Hot Topics

ROOM B

CONVENTIONAL BREAKOUT SESSION

Federal Land Issues

Moderator: Cody B. Stewart, Governor's Energy Advisor

Panelists: Congressman Rob Bishop

Jeff Hartley, Hartley & Associates

Ashley Korenblatt, Western Spirit Cycling

Juan Palma, Bureau of Land Management

Representative Roger Barrus

The federal government controls the vast amount of land and resources in Utah. This panel will explore the challenges and opportunities to having the federal government manage approximately 65 percent of Utah's lands.

ROOM C

RENEWABLE BREAKOUT SESSION

Bridging Resources: Where Conventional and Renewable Resources Meet

Moderator: Ian Andrews, PacifiCorp Energy

Panelists: John Van Gulik, Abengoa Solar

Colin Duncan, Ormat

Dr. Richard Boardman, Idaho National Lab

Karl Rink, Infinia

As new technologies have unlocked vast fossil resources formerly considered unrecoverable, fewer and fewer resource specialists now subscribe the notion that cleaner gas and coal generation would be simply a bridge to a wholly renewable future in the near term. Understanding that fossil generation is here to stay, renewable energy advocates are finding ways to integrate renewable generation into conventional systems and infrastructure, unlocking new opportunities through hybrid systems, combined heat and power, and other exciting technologies.

AGENDA

ROOM E

ENERGY EFFICIENCY BREAKOUT SESSION

Transportation Options for an Unpredictable Energy Future

Moderator: Senator Stuart Adams

Panelists: Curtis Mansfield, Rocky Mountain Power

Representative Greg Hughes, UTA Board

Joe Cannon, Fuel Freedom Foundation

Richard Kauss, Rio Tinto

Do you get sticker shock every time you fill up your vehicle? Have you heard the words “alternative transportation” or “alternative fuels” but don’t know what they mean? This session will look at the options going forward for the transportation sector as it deals with the possibility of a high-cost energy future. Learn how today’s transportation decision makers are finding ways to reduce petroleum consumption through the use of alternative, advanced vehicles, and other fuel-saving measures.

ROOM F

UNCONVENTIONAL BREAKOUT SESSION

The Real Impacts of Oil Shale and Oil Sands Development in Utah

Moderator: Commissioner Mark Raymond, Uintah County

Panelists: Dr. Jennifer Spinti, Institute for Clean & Secure Energy, University of Utah

Dr. Jerry Boak, Colorado School of Mines

Ryan Clerico, Enenefit American Oil

Cameron Todd, U.S. Oil Sands

Oil shale and oil sands development in Utah and the West has been a polarizing issue. The projected impacts of commercial-scale oil shale and oil sands development have often been politicized and speculative. This session will explore the real economic, community and environmental impacts of industrial-scale oil shale and oil sands development in Utah, as well as the remaining challenges that stand in the way of large-scale development of these resources.

10:30 a.m. – 11:00 a.m.

Networking and Trade Show

MAIN HALL

11:00 a.m. – 12:30 p.m.

Energy in a National and International Economy

ROOM B

CONVENTIONAL BREAKOUT SESSION

Energy and the Economy

Moderator: Jeff Edwards, EDCUtah

Panelists: Mark Compton, Utah Mining Association

Sidney Green, Energy & Geoscience Institute, University of Utah

/Terra Tek/Schlumberger

Natilie Gochmour, Salt Lake Chamber

Dr. John McLennan, Energy & Geoscience Institute,

University of Utah

Energy is vital to the growth of our economy. How does the increase in domestic production change the way we think about energy? How does energy affect our local, national, and international economy?

UTAH GOVERNOR'S ENERGY DEVELOPMENT SUMMIT

AGENDA

ROOM C

RENEWABLE BREAKOUT SESSION

Global Markets & Utah's Adoption Timeline for Renewable Energy

Moderator: Rob Glen, Bloomberg New Energy Finance

Panelists: Carolyn Campbell, GreenTech Media Research

Mike Taylor, Solar Electric Power Association

Rachel McMahon, First Solar

Luigi Resta, Scatec Solar North America

The sources of and costs associated with electric generation have long been local issues defined by the availability of fossil resources and sound infrastructure. While this will largely continue to be the case, the rapid decline in the cost of renewable technologies has begun to change that picture in many states, particularly those that mandate the adoption of renewables. As prices continue to fall, those resources will begin to find utility applications in states without mandates. This panel will examine cost trends in solar and wind technologies, and reflect on the question of prospective adoption timelines in Utah.

ROOM E

ENERGY EFFICIENCY BREAKOUT SESSION

Financial Pathways for Energy Efficiency Projects

Moderator: Darin Lowder, Ballard Spahr LLP

Panelists: Alan Westinskow, Zions Bank

Robert Hooper, Chevron Energy Services

Heidi Henderson, Engineered Tax Services

Elizabeth Goryuna, Utah World Trade Center

A well-designed energy efficiency upgrade can provide your business a positive cash flow from energy savings while paying off the capital investment for new equipment. But what happens when the "low hanging fruit"

energy efficiency projects have been completed? What financial options do companies have to move beyond the simple upgrade project? This session will look at how to finance energy efficiency projects utilizing available financial pathways: both traditional and non-traditional.

ROOM F

UNCONVENTIONAL BREAKOUT SESSION

The Global Oil Shale and Oil Sands Industry

Moderator: Dr. Phillip Smith, Institute for Clean & Secure Energy,

University of Utah

Panelists: Dr. Indrek Aarna, Eesti Energia

David Argyle, Global Oil Shale Holdings

Ruslan Salikhov, ATOMENERGOPROEKT

Adolph Lechtenberger, Red Leaf Resources

The oil shale and oil sands industry is a global enterprise. Its extent and importance to the global energy economy is often underappreciated. In fact, the United States' largest supplier of petroleum, Canada, produces over 2 million barrels of oil from oil sands every day. Panelists will provide a variety of global perspectives on the oil shale and oil sands industry and address how this global industry is engaging Utah.

12:30 p.m. – 1:00 p.m.

Lunch Served

MAIN HALL

1:00 p.m. – 1:30 p.m.

Governor's Excellence in Energy Awards

Governor Gary R. Herbert

Lieutenant Governor Greg Bell

MAIN HALL

AGENDA

1:30 p.m. – 2:30 p.m.

Keynote Panel, Utah Congressional Delegation

MAIN HALL

Senator Orrin Grant Hatch
Senator Mike Lee
Congressman Jim Matheson
Congressman Rob Bishop
Congressman Chris Stewart

2:30 p.m. – 4:00 p.m.

Technology and Innovation

ROOM B

CONVENTIONAL BREAKOUT SESSION

Technology: How it is Changing the Energy Landscape

Moderator: Al Walker, USTAR

Panelists: Ron Snedic, Gas Technology Institute

Thomas Chidsey, Utah Geological Survey

Jerry Fish, Stoel Rives LLP

Todd Stevens, Renewable Tech Venture

One of the great technology success stories of the past decade is how technology has transformed energy extraction in the United States. How these technologies are changing the United States' role as a global player, as well as limitations to the development of new energy technologies, will be discussed.

ROOM C

RENEWABLE BREAKOUT SESSION

The Future of Electric Transmission in the West

Moderator: Brad Nickell, Western Electricity Coordinating Council

Panelists: Natalie Hocken, PacifiCorp

Doug Larson, WGA Western Interstate Energy Board

Ken Geisler, Siemens

Dan Simon, Ballard Spahr LLP

Rapid load growth in the southwest and other pockets like the Wasatch Front are prompting significant upgrades and expansion of the western electric grid. That, coupled with increases in variable generation and natural disaster events, will demand grid modernization in order to maintain reliability. This panel will outline those activities being undertaken regionally to anticipate and respond to the changing needs of the Western Interconnect.

ROOM E

ENERGY EFFICIENCY BREAKOUT SESSION

Advanced Manufacturing Partnerships - Industrial Energy Efficiency Panel

Moderator: Paul Olsen, Manufacturing Extension Partnership

Panelists: Doug Carlisle, Varian Medical Systems

Bryan Haney, Nexant

Patti Case, ETC Group

Chris Helmers, Rocky Mountain Power

Roger Weir, ATK

Implementing energy efficiency improvements in a manufacturing scenario are, like other innovations, affected by the bottom line. Are you considering adopting energy efficiency measures in your organization but are not sure where to start? Come hear from energy efficiency experts and learn how to streamline your facility's energy consumption and contribute to your bottom line.

AGENDA

ROOM F

UNCONVENTIONAL BREAKOUT SESSION

The Future of Nuclear Energy

Moderator: Paul Genoa, Nuclear Energy Institute

Panelists: James Howe, American Centrifuge

Dr. Tatjana Jeremovic, University of Utah

Michael McGough, NuScale Power

Dr. Kemal Pasamehmetoglu, Idaho National Laboratory

This session will explore the state of the art for nuclear energy and what new technology is being developed. Experts will also address the extent to which technology can lower the cost of developing nuclear energy and resolve safety and environmental concerns.

4:00 p.m. – 6:00 p.m.

Networking Reception

ROOM 155

FOYER OF BREAKOUT SESSION ROOMS

DAY TWO

7:30 a.m. – 8:30 a.m.

Registration/Light Breakfast

8:30 a.m. – 10:00 a.m.

Hot Topics

ROOM B

CONVENTIONAL BREAKOUT SESSION

Energy and the Environment:

Responsible Energy Development

Moderator: John Baza, Division of Oil, Gas and Mining

Panelists: Kim Heimsath, Questar Pipeline

JT Martin, Integrated Water Management

Michele Straube, Stegner Center, University of Utah

Commissioner Mike KcKee, Uintah County

Affordable energy is vital not only to Utah's economy, but the economic welfare of the entire United States. At the same time, how do we responsibly extract our vast energy wealth in ways that improve the environment and protect species? This session will explore the balance between making energy extraction both affordable and environmentally responsible.

UTAH GOVERNOR'S ENERGY DEVELOPMENT SUMMIT

AGENDA

ROOM C

RENEWABLE BREAKOUT SESSION

Increased Fire Hazards & the Biomass Resource Connection

Moderator: Representative Eric Hutchings

Panelists: Dr. Eric Eddings, University of Utah

James Rekoske, Honeywell UOP

Jeffrey Steiner, U.S. Department of Agriculture

Geoffrey McNaughton, Bureau of Land Management

An overwhelming season of natural fire events in 2012 ruined property in rural Utah and air quality in urban Utah, and prompted many questions about land management practices on state and federal lands. At the same time, a small community of biomass utilization specialists around the state has been aggressively educating the energy community about the extent and character of Utah's biomass resource. This panel will explain the exciting land management and biomass nexus, and the opportunities it offers to rural Utah.

ROOM E

ENERGY EFFICIENCY BREAKOUT SESSION

Energy Efficiency at Work & Play: Success Stories from the Field

Moderator: Chamonix Larsen, GSBS Architects

Panelists: Renee Zollinger, Jeff Sokol, Salt Lake City

John Burningham, Division of Facilities and Construction Management

Kenner Kingston, Architectural Nexus

Dr. Larry Walters, BYU

Making energy efficiency a reality in day-to-day operations starts with a clear vision of implementation. This session presents an overview of successful energy efficiency projects conducted by local entities. A variety of

case studies will be presented to provide helpful examples of how other organizations have already identified energy-saving opportunities, implemented cost-cutting measures, and developed alternative energy projects.

ROOM F

UNCONVENTIONAL BREAKOUT SESSION

The Opportunities and Challenges of Developing Nuclear Energy in Utah

Moderator: A. Richard Walje, Rocky Mountain Power

Panelists: Aaron Tilton, Blue Castle Holdings

Douglas Hunter, Utah Associated Municipal Power Systems

Michael McGough, NuScale Power

Christopher Thomas, HEAL Utah

Dr. Richard Boardman, Idaho National Laboratory

This session will weigh the economic, community and environmental benefits and challenges of developing nuclear power in Utah. Panelists will address whether nuclear power would produce a net benefit for quality of life in Utah, and what questions need to be answered to move forward with its development.

10:00 a.m. – 10:30 a.m.

Networking Break

ROOM 155

AGENDA

10:30 a.m. – Noon

Technology and Innovation

ROOM B

CONVENTIONAL BREAKOUT SESSION

Technology Showcase

Moderator: Dr. Rob Behunin, Utah State University

Panelists: Dr. Scott Hill, Utah State University-USTAR

Robert Bell, Energy Commercialization Center, University of Utah

Dave Krug, RodMax Oil and Gas

Robert Ballou, Flathead Energy Services

John Gordon, Ceramtec Inc.

Sidney Green, Energy & Geoscience Institute, University of Utah

/Terra Tek/Schlumberger

Examples of exciting technologies within energy extraction will be showcased and will cover multiple local spheres within conventional energy, including those technologies researched, developed, and deployed in Utah's energy industry.

ROOM C

RENEWABLE BREAKOUT SESSION

Reducing the Risk & Cost of Geothermal Exploration in Utah

Moderator: Clint Hanni, Stoel Rives LLP

Panelists: Richard G. Allis, Utah Geological Survey

David Post, Enel Green North America

Elise Brown, California Geothermal Energy Collaboration

Utah is one of just a handful of states with a viable utility-scale geothermal resource, yet the state has just a handful of active projects. This is owing largely to the fact that the cost associated with proving a resource is so high as to preclude many projects by default. The more developers and states can cooperate to drive down the exploration and predevelopment costs of geothermal resource development, the more those states fortunate to have this unique baseload resource will be able to make geothermal a key part of their energy future.

ROOM E

ENERGY EFFICIENCY BREAKOUT SESSION

Western Governors' Association

The West as the Nation's Energy Breadbasket: Driving America Toward Clean Energy and Energy Security

Moderator: James D. Ogsbury, Western Governors' Association

Panelists: Carl Zichella, Natural Resources Defense Council

A. Richard Walje, Rocky Mountain Power

Dr. Eric Toone, Advanced Research Projects Agency-Energy

Chris Smith, U.S. Department of Energy

At this session WGA Executive Director Jim Ogsbury will moderate a panel to discuss a variety of energy topics with individuals from four sectors: governmental energy agencies, advanced technology groups, the environmental community, and the utility sector. The session will be focused on what the West needs to do to achieve a clean, affordable, secure, and diverse energy future.

ROOM F

UNCONVENTIONAL BREAKOUT SESSION

Accessing Utah's Unconventional Resources

Moderator: Elizabeth Schulte, Parsons Behle & Latimer

Panelists: Senator Kevin Van Tassell

Robert Bayer, JBR Consultants

Anthony L. Rampton, Public Lands Policy Coordination Office

Rob Dubuc, Western Resource Advocates

James Holtkamp, Holland & Hart LLP

Governor Herbert's 10 Year Strategic Energy Plan supports the development of Utah's extensive unconventional energy resources. This session will examine the potential for expanding access to Utah's oil shale and oil sands resource. Experts will also explore innovative approaches to expanding resource access that properly balances Utah's energy, community, environmental, and outdoor tourism goals.

UTAH GOVERNOR'S ENERGY DEVELOPMENT SUMMIT

AGENDA

12:00 p.m.

Lunch

Box lunch provided at the back of each session room.

12:15 p.m. – 1:45 p.m.

Energy Development Wrap up

ROOM B

CONVENTIONAL BREAKOUT SESSION

Uintah Basin Air Quality

Moderator: Amanda Smith, Department of Environmental Quality

Panelists: Lenard Herr, Bureau of Land Management

Kate Faye, Environmental Protection Agency

Brock Lebaron, Division of Air Quality

Craig Brown, QEP Resources

Marie Durrant, Holland & Hart LLP

Irene Cuch, Ute Indian Tribe

Air quality and its regulatory implications is one of the greatest uncertainties facing energy development in the Uintah Basin. Industry and regulatory agencies will discuss reservations and possible solutions to the balance between energy development and air quality in the region.

ROOM C

RENEWABLE BREAKOUT SESSION

Solar PV Installation Training

Moderator: Brok Thayn, Hunt Electric, Inc.

NABCEP Certified Electrical Engineer

This is a course on solar voltaic designed to help owners, architects and other team members have a better understanding of renewable energy systems, design, installation and work procurement. The course is intended to introduce the basics of solar photovoltaic systems to anyone with little or no experience in this field

ROOM E

ENERGY EFFICIENCY BREAKOUT SESSION

Utah Cluster Acceleration Partnership: Energy & Higher Education

Moderator: Samantha Mary Julian, Office of Energy Development

Panelists: Karen Gunn, Salt Lake Community College

Melisa Stark, Department of Workforce Services

Paul Olsen, Manufacturing Extension Partnership

Jeff Aird, Utah System of Higher Education

Higher education is an economic development hub and driver in the energy economy. Efforts through our educational systems will be highlighted by panelists and are enumerated in the newly released Energy Cluster Acceleration Partnership (ECAP) report. Included in the discussion will be information on green jobs and the State Energy Sector Partnership, energy efficiency outreach, career pathways, and research triangle collaboration initiatives.

ROOM F

UNCONVENTIONAL BREAKOUT SESSION

Utah Energy Research Triangle Initiatives

Moderator: Brendon Merkley, Vivint Solar

Panelists: Richard Franklin, Clean Tech Open

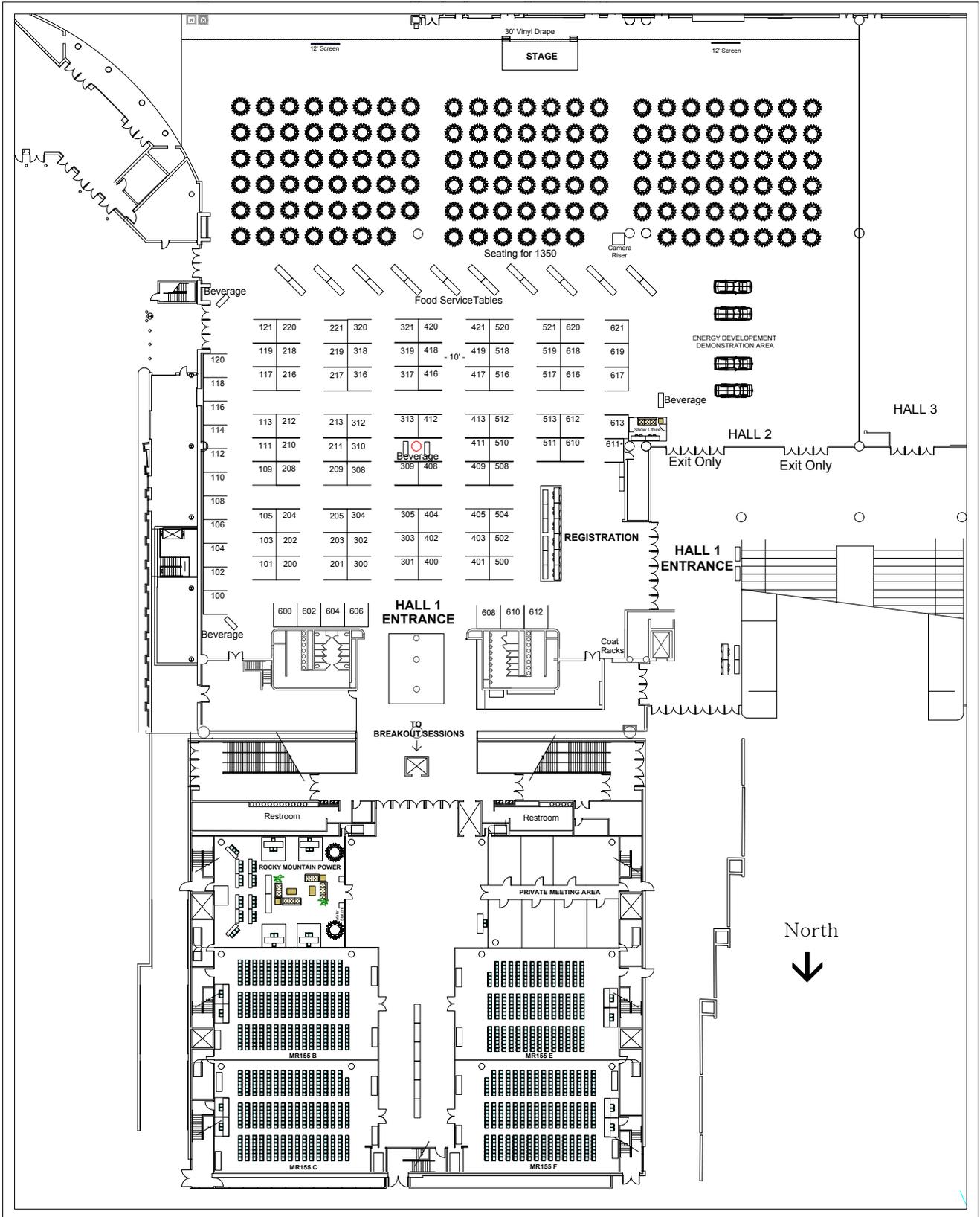
Alan Walker, USTAR/Energy & Geoscience Institute, University of Utah

G. Michael Alder, Brigham Young University

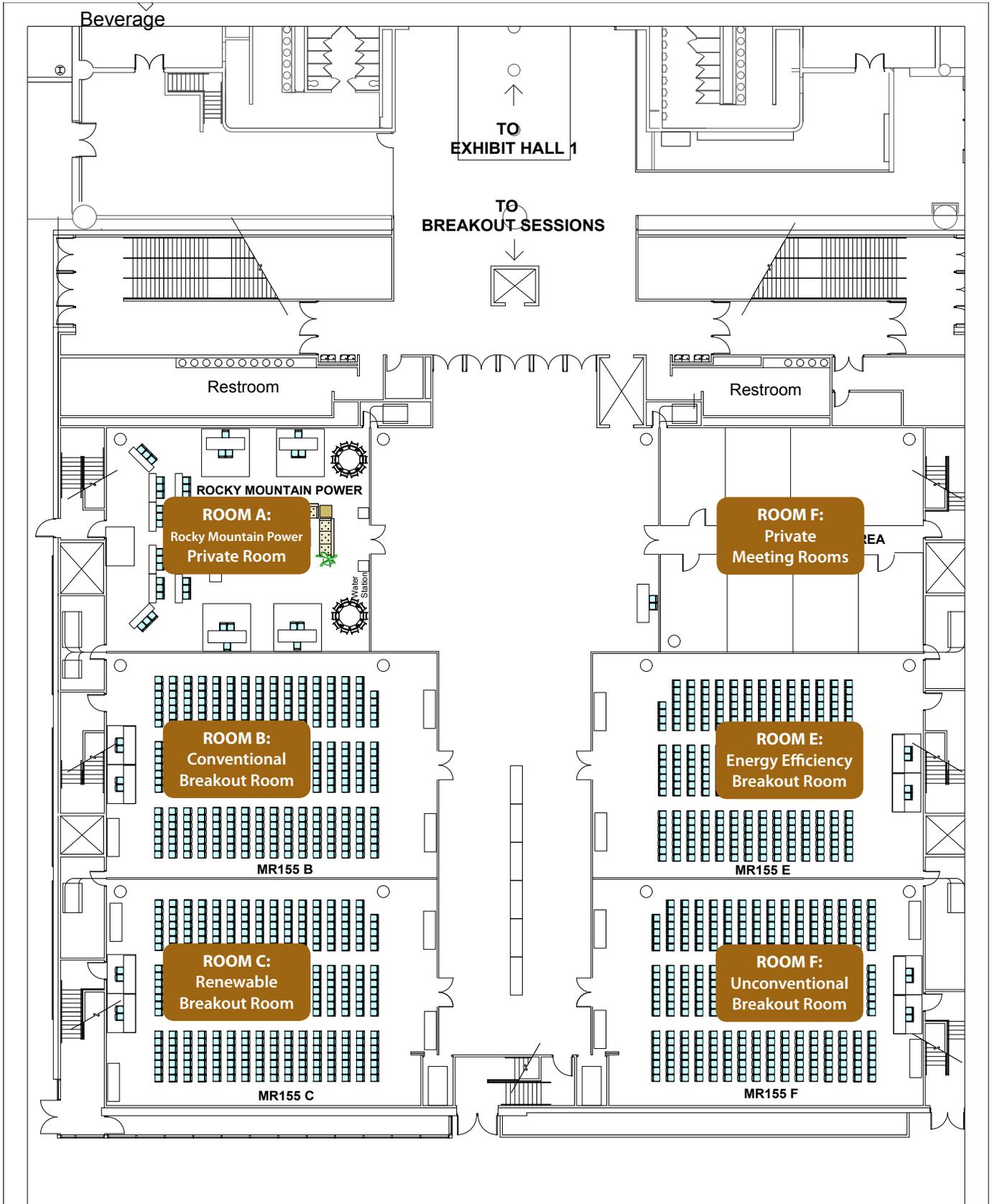
Dr. Robert Behunin, Utah State University

Governor Herbert's 10-year Strategic Energy Plan encourages Utah's research universities to work more closely together to advance energy innovation and Utah's energy economy. This session will discuss the respective strengths of Utah's research universities and opportunities for Utah's research universities to collaborate to solve several of Utah's most pressing energy challenges.

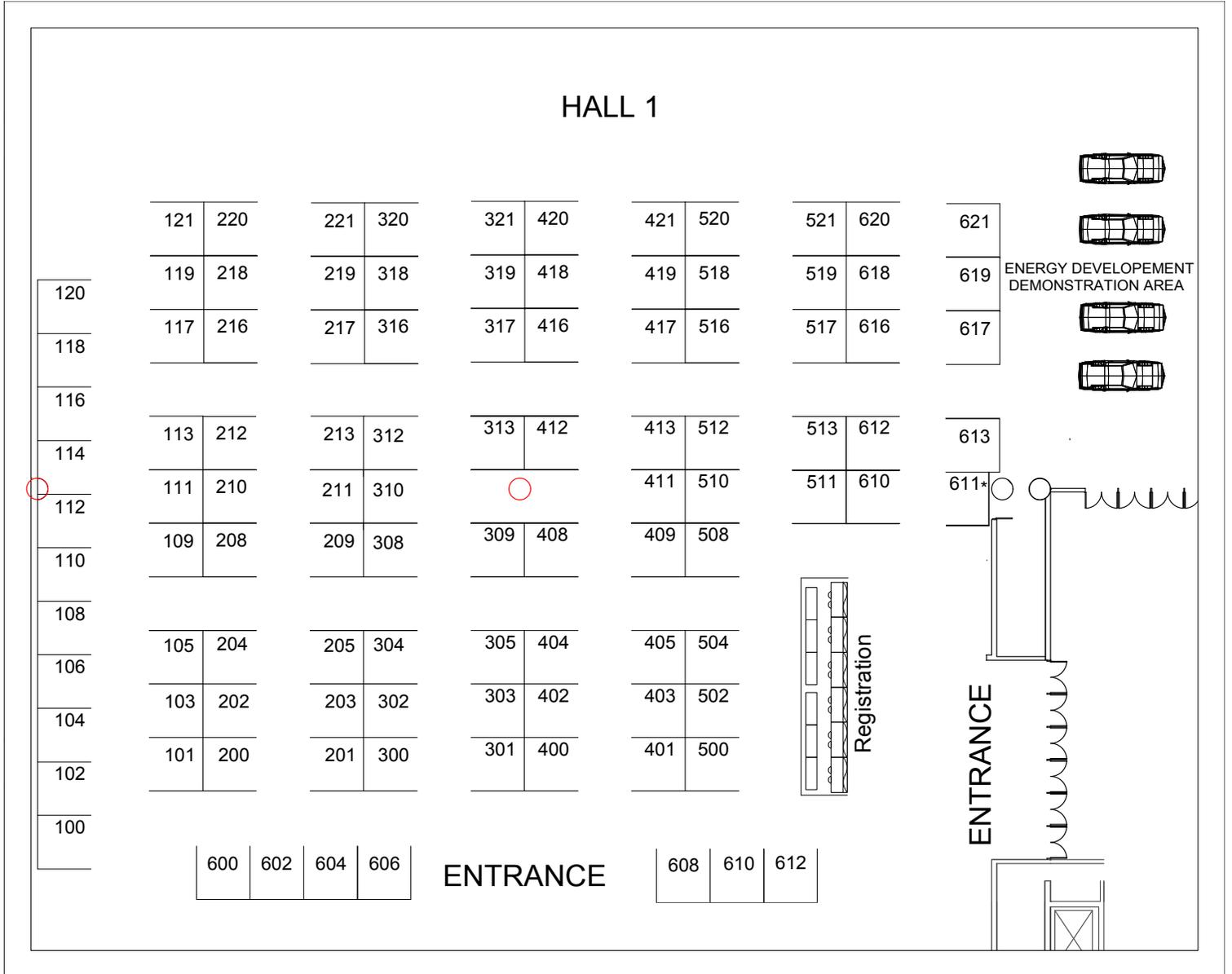
EVENT FLOOR MAP



DAY ONE



EXHIBITION MAP

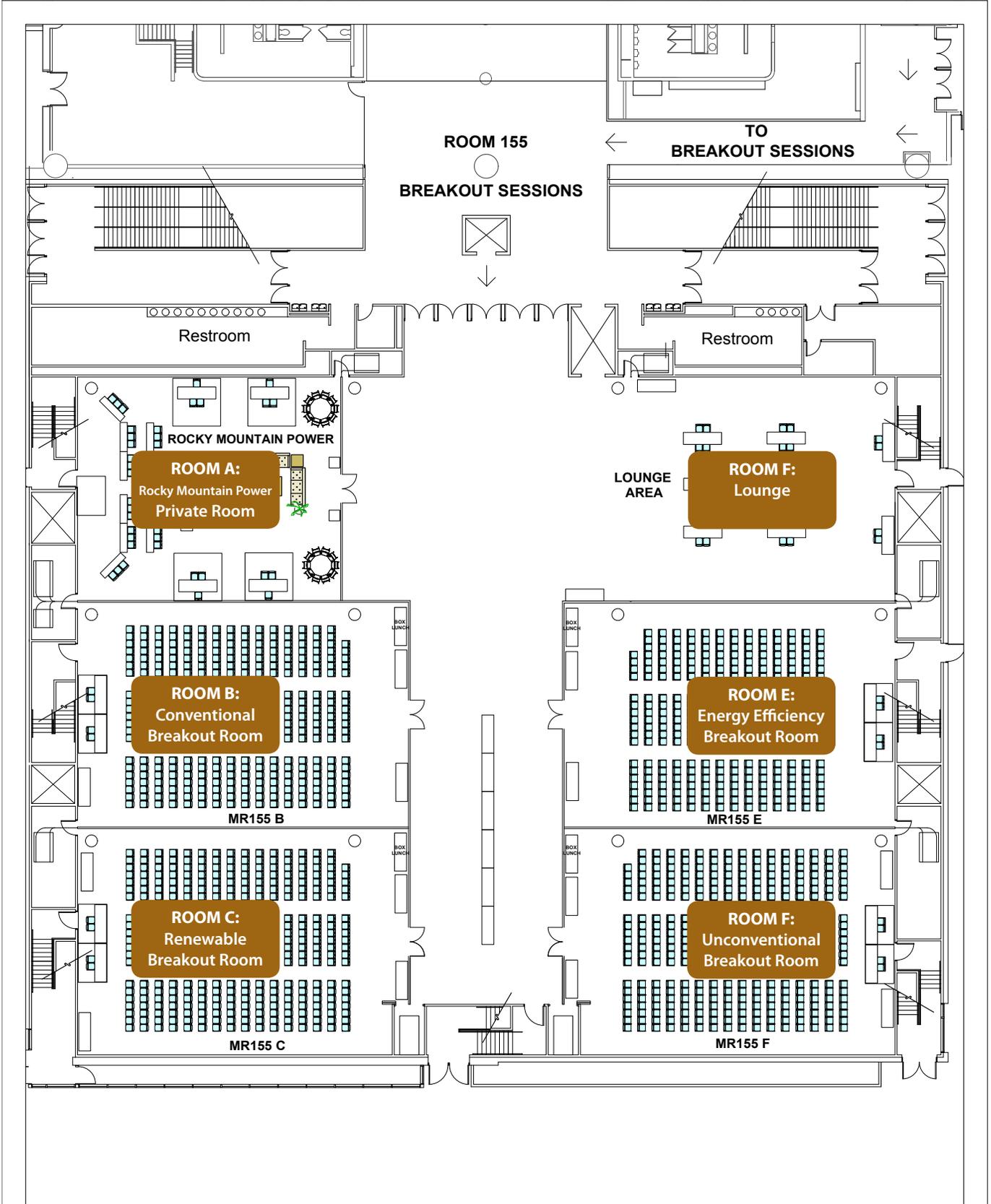


EXHIBITOR LIST

UTAH GOVERNOR'S ENERGY DEVELOPMENT SUMMIT

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Anadarko Petroleum Corporation	302	Oldcastle Precast.	312
ASM Affiliates, Inc.	417	Parsons Behle & Latimer	525
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DAY TWO



SPEAKERS AND PRESENTERS

UTAH GOVERNOR'S ENERGY DEVELOPMENT SUMMIT



Governor Gary R. Herbert

Governor, State of Utah

Gary R. Herbert is Utah's 17th Governor. He took his first Oath of Office on August 11, 2009. In 2012 he was re-elected Governor, winning all 29 of Utah's counties.

Governor Herbert is focused on four cornerstones to strengthen Utah's economy: Education, energy, jobs, and the ability of the State to solve its own problems. As a result, Utah is a premier destination for business, jobs, and an enviable quality of life. Under Governor Herbert's leadership, Utah has three times been recognized as the "Best State for Business and Careers" by Forbes magazine and the "best State to live in" by GALLUP.COM.

The Governor currently serves as the Chair of the Western Governors' Association (WGA), on the Executive Committee of the National Governors' Association (NGA), and on the Education and Workforce Committee of the NGA.

Prior to becoming the state's chief executive, Governor Herbert served as Lieutenant Governor for five years. In 1990, the Governor was appointed to the Utah County Commission. During his 14 years as county commissioner, he served as president of the Utah Association of Counties and the Utah Association of Realtors, and as a board member of the Provo Orem Chamber of Commerce and Utah Water Conservancy District.

Governor Herbert met his wife, Jeanette Snelson, while attending Brigham Young University. Shortly after their marriage, the Governor joined the Utah National Guard where he served for six years. He and Jeanette were small business owners for 23 years. The Herberts are the proud parents of six children and 13 grandchildren.



Greg Bell

Lieutenant Governor

Greg Bell has served as the Lieutenant Governor of Utah since September 1, 2009. Previously he served in the Leadership of the Utah State Senate having been a state senator representing Utah's 22nd District from January, 2003 until becoming Lieutenant Governor.

Lieutenant Governor Bell was born and raised in Ogden, Utah. He graduated from Ogden High School, Weber State University and the S.J. Quinney College of Law at the University of Utah. He practiced law at the firms of Kirton & McConkie and later at Fabian & Clendenin specializing in real estate law and has had extensive experience with real estate development, land use and finance.

Lieutenant Governor Bell is a past mayor and city councilman of Farmington. He has been the Chair of Envision Utah, an internationally acclaimed collaborative land use and transportation planning organization

Lt. Governor Bell and his wife, JoLynn, currently reside in Fruit Heights, Utah. They are the parents of six children and 18 grandchildren.



Senator Orrin Grant Hatch

Senator, State of Utah

Orrin Grant Hatch was born on March 22, 1934, to Jesse and Helen Hatch. He married Elaine Hansen of Newton, Utah in 1957. Senator and Elaine Hatch are the proud parents of six children, twenty-three grandchildren and ten great-grandchildren.

Now in his sixth term as Utah's senator, Orrin Hatch is championing vital legislation for Utahns. Among his many initiatives are the Balanced Budget Amendment to the Constitution, the Strengthening Our Commitment to Legal Immigration and America's Security Act, the Religious Freedom Restoration Act, the Americans with Disabilities Act, the Antiterrorism and Effective Death Penalty Act, and the Utah School Trust Lands Exchange Act.

Senator Hatch continues to lead in the fight to repeal the unconstitutional individual mandate and other provisions in the \$2.6 trillion health law called ObamaCare. He is on the front lines of legislative battles to secure the nation's borders, stop the forced unionization of American workers and to bring fiscal restraint back to Washington by ending the reckless spending that threatens to bankrupt the nation.

Senator Hatch is the ranking member of the Senate Committee on Finance and a member of the Judiciary Committee; the Senate Health, Education, Labor, and Pensions Committee; and the Joint Committee on Taxation. He also has the honor of serving on the Board of Directors for the Holocaust Memorial Museum in Washington, D.C.



Senator Mike Lee

Senator, State of Utah

Elected in 2010 as Utah's 16th Senator, Mike Lee has spent his career defending the basic liberties of Americans and Utahns as a tireless advocate for our founding constitutional principles.

Senator Lee acquired a deep respect for the Constitution early on. His father, Rex Lee, who served as the Solicitor General under President Ronald Reagan, would often discuss varied aspects of judicial and constitutional doctrine around the kitchen table, from Due Process to the uses of Executive Plenary Power. He attended most of his father's arguments before the U.S. Supreme Court, giving him a unique, hands-on experience and understanding of government up close.

Lee graduated from Brigham Young University with a Bachelor of Science in Political Science, and served as BYU's Student Body President in his senior year. He graduated from BYU's Law School in 1997 and went on to serve as law clerk to Judge Dee Benson of the U.S. District Court for the District of Utah, and then with future Supreme Court Justice Judge Samuel A. Alito, Jr. on the U.S. Court of Appeals for the Third Circuit.

Lee spent several years as an attorney with the law firm Sidley & Austin specializing in appellate and Supreme Court litigation, and then served as an Assistant U.S. Attorney in Salt Lake City arguing cases before the U.S. Court of Appeals for the Tenth Circuit.

Lee served the state of Utah as Governor Jon Huntsman's General Counsel and was later honored to reunite with Justice Alito, now on the Supreme Court, for a one-year clerkship. He returned to private practice in 2007.

Throughout his career, Lee earned a reputation as an outstanding practitioner of the law based on his sound judgment, abilities in the courtroom, and thorough understanding of the Constitution.

Today, Lee fights to preserve America's proud founding document in the United States Senate. He advocates efforts to support constitutionally limited government, fiscal responsibility, individual liberty, and economic prosperity.



Congressman Jim Matheson

Congressman, State of Utah

In January 2012, Jim Matheson was sworn in for a seventh term representing Utah and his first term as the representative of the new 4th Congressional District. Utah's 4th District comprises much of the west side of Salt Lake County, western portions of Utah County and parts of Juab and Sanpete Counties.

Congressman Matheson serves on the House Energy & Commerce Committee, an exclusive committee with the broadest jurisdiction of any Congressional committee.

Congressman Matheson is recognized as a champion of bipartisanship, looking to "reach across the aisle" for common sense solutions to issues. The Salt Lake Tribune Editorial Board said, "If, as many Utahns say, Washington is broken because too few politicians will steer a middle course between the extremes of the two parties, then Jim Matheson should be just the man voters are looking for."

Congressman Matheson is a member of the Blue Dog Coalition, a group of fiscally conservative House Democrats.

Matheson is a sixth-generation Utahn who was born and reared in Salt Lake City. Before his election to Congress, he worked in the energy industry for 13 years for several local companies and in his own firm. His wife, Amy, is a pediatrician and they have two sons.



Congressman Rob Bishop

Congressman, State of Utah

Served sixteen years in the state legislature, including as Majority leader and the unanimously elected Speaker of the House.

Served two terms as State Chairman of the Republican Party.

Co-founder of the Western States Coalition and past Chair of the Congressional Western Caucus.

Spent twenty-eight years as a high school teacher in Utah, focusing on American History and Government.

Married to Jeralynn Hansen Bishop. They are the parents of five and reside in Brigham City.

Currently serving his fifth term as a member of the United States House of Representatives.

Serves on the House Rules Committee, Natural Resources Committee, and is Chairman of the House Resources Subcommittee on National Parks, Forests and Public Lands.*On temporary leave from the House Armed Services Committee.



Congressman Chris Stewart

Congressman, State of Utah

Chris Stewart is Congressman in Utah's Second Congressional District. He is also a New York Times best-selling and national award-winning author, world-record-setting Air Force pilot, and the former owner/CEO of a small business.

Chris is one of ten children and grew up on a dairy farm in Cache Valley. He graduated from Utah State University, where he earned his degree in economics. Upon graduation, Chris joined the United States Air Force where he was the Distinguished Graduate (top of his class) in both Officer Training School and Undergraduate Pilot Training. He served for fourteen years as a pilot in the Air Force, flying both rescue helicopters and the B-1B bomber.

Chris is a prolific author having written 15 books, several of which have become national best-sellers.

Before being elected to Congress, Chris served as president and CEO of the Shipley Group, a nationally recognized firm for consulting expertise in energy and the environment, as well as government anti-terrorism training, and corporate security consulting.

He and his wife, Evie, are the parents of six children.



Cody B. Stewart

Energy Advisor, Governor Gary R. Herbert

Cody Stewart has over a decade of experience in government and public policy with a special focus on energy and western natural resource policy.

Mr. Stewart has worked in a number of capacities focusing on both Utah and national energy and natural resource policy, including as the Communications Coordinator for the House Committee on Natural Resources under Chairman Jim Hansen (UT-01), as a senior Legislative Assistant on Energy and Public Lands Policy to Congressman Chris Cannon (UT-03), as Executive Director of the Congressional Western Caucus, as a Legislative Director for Congressman Rob Bishop (UT-01), and most recently as Chief-of-Staff to Lt. Governor Greg Bell.

Stewart was born and raised in Utah. He graduated from Utah State University where he received bachelor's degrees in both History and Political Science.

Cody also received a joint MBA/Masters degree in Government from John's Hopkins University.

Stewart lives with his wife, Mary, and their five children in Farmington, Utah.



Samantha Mary Julian

Director, Office of Energy Development

Samantha Mary Julian was appointed by the Governor's Energy Advisor to be the Director of the Office of Energy Development in 2011. Before that, she served as the Energy & Natural Resources Cluster Director for the Governor's Office of Economic Development (GOED). The vision for the Office of Energy Development is to serve as the primary resource for advancing energy development in Utah.

Ms. Julian is responsible for the promotion of Utah's State Energy Policy, coordinating with the Governor's Energy Advisor to implement the Governor's energy goals and objectives, seeking federal grants and participating in federal programs, assisting industry, and making administrative rules. She is a member of the Governor's Energy Task Force and the Energy Coordinating Council. Under Ms. Julian's leadership the State of Utah launched the first annual Renewable Energy Business Summit (REBS). Ms. Julian has assisted in a number of key energy initiatives such as Governor Herbert's 10-Year Strategic Energy Plan.

Prior to joining GOED, Ms. Julian served as a Business Development Manager for the Economic Development Corporation of Utah (EDCUtah). In this capacity, she recruited companies to Utah and assisted companies to relocate or expand here.

Ms. Julian received her MBA from Westminster College and B.S. from the University of Utah in Political Science with a certificate in International Relations. She enjoys time reading and camping with her husband and three dogs.



Ronald W. Jibson

President & CEO, Questar Corporation

Ronald W. Jibson is chairman, president and CEO of Questar Corporation. Prior to his current assignment, Ron was president and CEO of Questar Gas Company and was responsible for distribution of natural gas services to more than 925,000 homes and businesses in Utah, southern Idaho and southwestern Wyoming. Ron has held Questar positions of corporate executive vice president; vice president of operations for Questar Gas and Questar Pipeline; and general manager of operations, operations manager and director of engineering for Questar Gas. He began his career with Questar 32 years ago, starting as a design engineer.

Ron graduated from Utah State University in civil engineering and later received an M.B.A. from Westminster College.

Ron's industry involvement includes serving as chairman of the American Gas Association, which represents more than 200 local energy companies delivering natural gas to more than 65 million customers. Ron is immediate past chair of Western Energy Institute and he also serves on the Board of Gas Technology Institute. He also serves as chairman of Utah State University's Board of Trustees and the Economic Development Corporation of Utah; as vice-chair of the Salt Lake Chamber Board of Directors; and on the board of the Utah Symphony/Utah Opera. He has served as board chair of Junior Achievement of Utah, and on the boards of United Way of Salt Lake and Utah Shakespearean Festival.

Ron, and his wife, Janet, have three sons. His hobbies include golf, fly fishing, hunting and spending time with his family.



James D. Ogsbury

Executive Director, Western Governors' Association

Jim was hired by the Governors in November 2012. He has over twenty years experience creating and implementing public policy, as well as designing successful lobbying, communications and public affairs strategies.

Prior to coming to WGA, Jim was the legislative director at the League of Arizona Cities and Towns, a voluntary association of all ninety-one municipalities in the State of Arizona. There he was responsible for development and execution of comprehensive political strategies concerning state legislation affecting cities and towns.

Jim also worked as Managing Principal, Washington Office Triadvocates, an Arizona-based public affairs firm, for Jones Walker as government relations counsel emphasizing federal appropriations and as subcommittee chief-of-staff on the Subcommittee on Energy and Water Development of the United States House of Representatives, Committee on Appropriations.

Dr. Indrek Aarna

Head of R&D, Eesti Energia

Indrek Aarna is currently a Head of the R&D Department of the biggest energy producing company in Estonia - Eesti Energia AS. He is responsible for development of Enefit retorting technology and shale oil upgrading technology for all Enefit shale oil development projects. His career in Eesti Energia started in 2000. He has been holding the following positions in Eesti Energia or its subsidiaries: New Business Development Manager and Member of the Management Board of Nordic Energy Link. He graduated with a Bachelor of Science degree in Chemical Engineering at Tallinn University of Technology in 1992. He obtained a PhD in Chemistry from Brown University in 1998. Twelve years of experience in Eesti Energia AS makes Indrek Aarna a very experienced energy specialist.

Jeff Aird

Program Manager, Utah System of Higher Education



Jeff Aird is the Program Manager for Economic Development for the Utah System of Higher Education. His expertise is in connecting educational organizations with the economic development needs of the state. Jeff works with education, industry, and government partners to develop the necessary connectivity to generate economic growth. Jeff received his Juris Doctorate and Master's of Public Administration Degrees from Brigham Young University and a Bachelor of Arts degree in American Studies from Utah State University. He currently manages the Utah Cluster Acceleration Partnership, a collaborative initiative of education, government, and business to grow core economic sectors through improving connectivity to education.

G. Michael Alder

Director of the Office Technology Transfer, BYU

Director of the Office Technology Transfer, for Brigham Young University, Provo, Utah. He is also the Chairman of National Centers of Excellence. In the last nine years he co founded 9 technology based businesses and continues to serve on the Board of Vaxin, Inc. and is Chairman of Praktika, Inc. Overall Mr. Alder has over 35 years of experience in leading technology based start up companies. He was previously CEO of Emerging Technology Partners in Birmingham, Alabama from 1997 to 2003. Prior to coming to Alabama in 1994 he co founded the Grow Utah Fund that focused on creating technology based businesses in the state of Utah. In 1989 he was asked by the Governor to head the Office of Technology Development for the State of Utah, which he did for 5 years. In 1973 he founded NPI, a plant biotechnology company in Salt Lake City, Utah and served as President, COO and Vice Chairman of that company for 15 years as it grew to over 700 employees. Mr. Alder received a MS in Biology from the University of Utah in 1971.

Dr. Richard G. Allis

Director, Utah Geological Survey



BSc Victoria University of Wellington New Zealand (Geophysics 1973). MSc University of Toronto, (Geophysics 1975). PhD University of Toronto, (Geophysics 1977).

Geothermal resource evaluation and environmental impact assessment with development. Oil and gas generation, coal maturation, and basin evolution. Epithermal mineralization. Ground water hydrology, development impacts. Project management/leadership strategic planning (Earth science organizations).

Ian Andrews

Resource Development Manager, PacifiCorp Energy

Mr. Andrews is the manager of the resource development group for PacifiCorp Energy. His current responsibilities include managing the development of new wind, solar and gas-based electric power generation resources to meet the needs of the company's integrated resource plan. He has been involved in a variety of functions in the power generation sector including project management, air pollution control

compliance, plant performance, plant design, contract negotiations, resource planning, due diligence for resource acquisition, renewables, integrated gasification combined cycle, and new technology assessment. Mr. Andrews has over 34 years experience at PacifiCorp Energy and its predecessors. He is a licensed professional engineer, with a degree in chemical engineering from the University of Utah and a business degree from Brigham Young University.

David Argyle

CEO, Brazil Potash Corporation



Mr. David Anthony Argyle, MBA presently serves as Chief Executive Officer of Brazil Potash Corp. Chairman of Agricultural Group, Forbes & Manhattan Inc., overseeing the development of global agricultural inputs and outputs projects. Co-Founder/Investor/ Chairman- Evaluating and investing in resource projects in Brazil. Projects that have advanced from project status to funded companies include: Agua Resources Limited (ASX:AGR) (fertilizers) & Irati Energy Corp (oil shale). Irati is in the process of drilling a resource of approx. 1 billion barrels of oil shale. David is the Founder and Chairman of ODYE- African onshore & offshore oil & gas projects with the cornerstone asset a joint venture with Chevron & Noble Energy in Sierra Leone. Founder and Chairman of Global Oil Shale Holdings (GOSH) - Created to explore and develop oil shale in the Hashemite Kingdom of Jordan utilizing proprietary technology with 8 billion bbl of oil shale potential.

Co-founder and Chairman of Datu-Tagleong Plantations Inc. Oil palm plantation development in Mindanao Philippines and Investor/ Chairman of Earthrenew Inc.

Producing biogas from green waste and generating electricity from natural gas.

Mr. Argyle has been Director/Chairman/ Investor and CEO of many companies in his foregoing career. Partial Eg; Dynamite Resources Ltd & Tau Mining Ltd, Asset Backed Holdings Ltd, Norwest Holdings Pte Ltd.

David Argyle graduated with his Masters of Business Administration at the University of Michigan, USA and Bachelor of Commerce University of Western Australia.

SPEAKERS AND PRESENTERS

Robert Ballou

Operations Manager, Flathead Energy Services



Geologist with diversified experience in exploration, production, engineering, and operations. Three years with Gulf Oil Co. in Casper, Wyoming. Ten years with Coors Energy Company of Golden, CO, where he drilled over a hundred wells in western Colorado, Wyoming, Nebraska and Utah. He was an equity owner and, operated, properties in the Uintah Basin with a local oil and gas company. He served as a VP/ Chief Geologist, with three local Uintah Basin Roosevelt based oil and gas companies. Mr. Ballou is a Registered Petroleum Geologist in both Wyoming and Utah and a 30 year member of the AAPG. He is a member of the UGA and active in the Uintah Basin chapter of the API, where for the last 8 years he acted, and continues to act as its program chairman. Currently he is a partner and Operations Manager for Flathead Energy Services, a company serving the oilfield community as a well and production enhancement company. He earned a BS degree from the University of Utah and a Master's degree from Brigham Young University. He is the proud father of three children and 8 grandchildren and together with his wife Trenna live and work in Roosevelt, Utah.

Representative Roger E. Barrus

House District 18



Representative Barrus was raised on a small family farm in Southeast Idaho. He graduated in 1974 from Utah State University's College of Engineering. He spent his career working primarily in the natural gas industry and retired in 2005.

Representative Barrus was elected to the Utah House of Representatives in 2000. He has served on the Natural Resources, Agriculture and Environment Committee since being elected and has chaired that Committee since 2005. He is Utah's legislative leader for most energy-related issues. He helped organize the workgroup that created the framework for Utah's Energy Policy and he sponsored the bill in 2006 that put Utah's Energy Policy into statute. He also sponsored the bill in 2011 that created the Governor's Office of Energy Development.

In addition to his legislative responsibilities, Representative Barrus serves on the Na-

tional Conference of State Legislature's Energy Supply Taskforce. He is also a member of the Executive Committee and Governing Board of the Council of State Governments where he is involved in creating a state compact template for siting electric transmission lines. He is also working with other western states in that organization on a public lands initiative to transfer ownership and management of federal public lands to the states.

Finally, he was just elected last month to chair the Energy Producing States Coalition, which is an organization of elected legislators from around the Nation who work together to promote the development of affordable, domestic energy.

Robert Bayer

President, JBR Environmental Consultants

Mr. Bayer is a founder, shareholder, and President of JBR Environmental Consultants, Inc., with more than 39 years of experience in the mining and environmental industries. He has served in his current capacity or as a principal in the firm since its founding in 1985. His environmental industry experience includes the following: management of multimedia permitting projects for coal, ferrous, and non-ferrous metallic and non-metallic mining operations, as well as for industrial facilities; managing and conducting environmental investigations; and management of environmental due diligence and audit projects. In addition, he is currently involved in permitting for both oil shale and oil sands projects on the Colorado Plateau. His due diligence experience includes: mine and mills; roasters, smelters, and refineries; oil and gas fields, gathering systems, and natural gas plants; and land disturbed and affected by abandoned mines and related facilities. Mr. Bayer has B.S. and M.S. degrees in geology from Marietta College and the University of Tennessee, respectively, and worked in the mining industry as well as with a regulatory agency prior to his co-founding JBR. He served on the Utah Board of Oil Gas and Mining for two 4-year terms ending in 2009, is a past chair of the Utah Section of the Society for Mining, Metallurgy and Exploration (SME), a past chairman of the Utah Mining Association's Environment Committee, and is active in community affairs.

John Baza

Director, Utah Division of Oil, Gas and Mining



Mr. John Baza is the Director of the Utah Division of Oil, Gas and Mining, having been appointed to that position in May 2005. He holds BS and MS degrees in petroleum engineering from Stanford University, and his work experience includes engineering positions with major and independent petroleum companies including Phillips Petroleum Co., Amoco Production Co., and Flying J Oil and Gas Inc. Mr. Baza has spent over 20 years with the Utah Division of Oil, Gas and Mining. Now as the Director of DOGM, he administers the Division's efforts in the areas of petroleum, coal mining, and mineral mining, along with abandoned mine reclamation.

In addition to his responsibilities as Division Director, he also serves as the Official Representative for Governor Gary Herbert of Utah on both the Interstate Mining Compact Commission (IMCC) and the Interstate Oil and Gas Compact Commission (IOGCC). Mr. Baza was recently elected as the First Vice-Chairman for the IOGCC for 2013, and he will serve under the chairmanship of Governor Robert Bentley of Alabama.

Dr. Robert T. Behunin

Vice President for Commercialization and Regional Development, USU



Since 2008, Robert T. Behunin, Vice President for Commercialization and Regional Development at Utah State University, has cultivated \$6M of investment into technology commercialization at USU, played a central role in bringing together the team and technology for Purestream, a company that cleans wastewater at well sites, and has helped to spin-out other USU companies. At present, Behunin participates in a variety of state and regional activities including Governor Herbert's Energy Task Force, Governor Herbert's Economic Development Council, the Utah Technology Council, Ashley Regional Medical Center, as well as the Utah State University Research Foundation.

SPEAKERS AND PRESENTERS

Robert Bell

Program Manager, Energy Commercialization Center

Robert is currently the Program Manager focused on commercialization at the Energy Commercialization Center (ECC). His international experience working with investors and negotiating JVs is being leveraged to drive emerging technologies and early-stage companies to the next stage of validation through the facilitation of a regional cleantech ecosystem. As the only cleantech accelerator in Utah, the mission of the ECC is to foster job creation, stakeholder education, and community engagement through the development of a regional clean energy ecosystem. The success of this ecosystem hinges on the growth and outreach of a partner network across academia, industry, investment, and entrepreneurs.

Robert has a BS in Mechanical Engineering from The University of Utah and recently completed a Professional MBA at the University of Utah as well, focused on Entrepreneurship. Previously, Robert was a Senior Program Administrator for Nexant Inc., an energy consulting firm focused in demand-side management for utilities, where he oversaw Rocky Mountain Power's and Pacific Power's largest commercial and industrial energy efficiency incentive program. Robert also worked in the Unconventional Gas Exploration and Production side of the energy industry, and has been involved with numerous coalbed methane and shale gas projects.



Dr. Jeremy Boak

Director, COSTAR

Jeremy Boak is the Director of the Center for Oil Shale Technology and Research (COSTAR) at the Colorado School of Mines, and served as the Chair or Co-Chair of the 26th through 32nd Oil Shale Symposia, held at Mines in 2006-2012, and is Co-Chair of the 33rd Oil Shale Symposium (October 14-18, 2013). Dr. Boak previously served as a Project Manager with the Colorado Energy Research Institute (CERI), and the Los Alamos National Laboratory. He served as Branch Chief at the U.S. Department of Energy, and Exploration and Development Geologist for ARCO Oil & Gas Company. He is President-Elect of the



Energy Minerals Division of the American Association of Petroleum Geologists (AAPG). He serves as a Non Executive Director at San Leon Energy Plc. Affiliated with AAPG, EMD, and the Geological Society of America, Dr. Boak is extensively published. Dr. Boak received his Ph.D. degree in Geological Sciences from Harvard University for work on the nature of metamorphism and continent formation in the earliest history of the earth, based upon work on 3.8 billion year old rock from Isua, West Greenland. He received MS degrees from Harvard and the University of Washington, and his undergraduate degree from Harvard, all in Geological Sciences.

Dr. Richard Boardman

Department Manager, Idaho National Laboratory

Richard Boardman received a doctorate degree in Chemical Engineering from BYU, the lead for a National Science Foundation Center of Excellence in Combustion Research and Engineering. He worked for Exxon Production Research and Geneva Steel before joining the Idaho National Laboratory in 1990. As the Department Manager for energy systems development and testing, he is responsible for the use of scientific computational tools and testing facilities supporting the evaluation and development of fossil-renewable-nuclear hybrid energy systems. His personal expertise also includes development of coal and biomass combustion and gasification, synthetic fuels process modeling and development, gas technology technology development, and atmospheric environmental chemistry. He is a recipient of the Idaho Academy of Sciences Engineer/Scientist of the Year Award.



Elise Brown

Assoc. Director, California Geothermal Energy Collaboration

Elise Brown holds a Master of Applied Science in Natural Resource Management from James Cook University (Queensland, Australia) and a Bachelor of Science in Environmental Studies from the University of Utah. Elise has held positions such as the Renewable Energy Coor-



dinator for the State of Utah, Business Development Manager for the University of Utah's Energy Commercialization Center and currently is a Program Manager at the Energy Institute and Associate Director of the California Geothermal Energy Collaborative.

Her work has ranged from renewable energy monitoring & siting, policy development, outreach and education & program management. Elise was lead staff on Governor Huntsman's, Utah Renewable Energy Zones Task Force and currently serves on the Scenario Planning Steering Committee with the Western Electric Coordinating Council. Her primary interest is research that can be translated to policies and the market that better foster further renewable energy penetration.

John Burningham

Energy Program Manager, DFCM

John joined DFCM in the fall of 2011. His work includes overseeing the implementation of the State's High Performance Building Standard as well as analyzing the effects thereof and revising the standard as necessary to further enhance the performance of state owned buildings. Additionally, he provides technical advice and support to design teams working on state buildings as it relates to energy and the High Performance Building Standard. He works with the state agencies and institutions to develop agency wide energy management plans and programs as well as identifying feasible energy efficiency projects. He also works on state initiatives such as State facility energy performance measurement, integrating and maximizing utility incentive programs, and participating on the Utah Building Energy Efficiency Strategies (UBEES) team, an entity charged with promoted energy performance measurement, above code programs, workforce development, and education.

John holds a Masters of Architecture from the University of Utah and has practiced architecture locally for several years. He is also a LEED Accredited Professional and worked as a consultant to the EPA, DOE and United States Green Building Council prior to coming to DFCM.

SPEAKERS AND PRESENTERS

Carolyn Campbell

Analyst, GreenTech Media Research



Carolyn Campbell is a Solar Analyst at GTM Research. She covers utility and commercial project development in the U.S, tracks quarterly performance of PV manufacturers, and assists with data collection and analysis for GTMR projects, including the SELA/GTM Research US Solar Market Insight Reports. Her internship experience includes work with energy demand management, sustainable development, and corporate environmental responsibility. Carolyn has a BA in Environment, Economics, and Politics from Claremont McKenna College.

Joseph Cannon

President & CEO, Fuel Freedom Foundation

Joe brings a wide array of leadership experience in government, law, business, and journalism to the building of this national effort. He served as editor of the Deseret News, the leading newspaper in Utah. Prior to the Deseret News, he was a partner and co-leader of the Public Practice & Political Law practice team at Pillsbury Winthrop Shaw Pittman LLP. Joe played a pivotal role in the purchase of Geneva Steel (a steelmill in Vineyard, Utah) and the reopening of the plant in 1987. He served as Chief Executive Officer and Chairman until 2001. From 1981 to 1985, he served in the Reagan administration as an Assistant Administrator in the US Environmental Protection Agency, first for Policy and Resource Management and later for Air and Radiation. Joe received his undergraduate and law degrees from Brigham Young University.

Doug Carlisle

Facilities Manager, Varian Medical Systems



Doug Carlisle has been the Facilities Manager at Varian Medical Systems for over 15 years. He oversees Manufacturing Systems Engineering, capital construction, plant maintenance, calibration, security and other functions. Doug's sustainability vision for X-Ray products is apparent in every goal and objective in his department, making significant financial savings for the business unit. He holds B.S. and Masters degrees in Accounting from Brigham Young University and has earned CPA and CMA certifications.

Patti Case

Vice President, ETC Group



Patti Case has been Vice President of ETC Group since its start up in 1988. The company's mission is to improve the energy efficiency of commercial and industrial businesses and reduce the impact of energy use on the environment through engineering, analysis, education, and advocacy.

Patti has a MS in Mechanical Engineering and BS degrees in Chemistry and Biology. She is a registered PE in Utah and California. Before quitting her day job and going into business with her brother Mark Case (President of ETC) she did combustion research and development and industrial process engineering for 10 years. She now leads ETC Group's industrial practice. She has served on the South West Energy Efficiency Project's board of directors since 2002. She has been the Director of the Intermountain Combined Heat and Power Application Center (now the Clean Energy Center) since 2003.

Ryan Clerico

Manager, Environmental and Regulatory Affairs, Enefit



Mr. Ryan Clerico serves as Manager, Environmental and Regulatory Affairs for Enefit American Oil, the U.S.-based subsidiary of Eesti Energia. Eesti Energia is Estonia's national energy company and is the largest employer in the Baltic Region of northern Europe, with nearly 100 years of experience working with oil shale. Responsible for the permitting and environmental management of Enefit's Utah Project, a proposed 50,000 barrels per day oil shale mining, retorting, and upgrading commercial operation south of Vernal, UT, Mr. Clerico brings more than 15 years of environmental industry experience to the Enefit project team. He joined Enefit in August 2012 following a long career in environmental consulting, as well as a brief stint as an environmental regulator in his home state of Florida. Mr. Clerico is a specialist in the National Environmental Policy Act, completing every level of NEPA documentation for more than a dozen different federal agencies across the U.S. His industry experience has focused on energy, mining, and infrastructure, both domestically and internationally.

Mr. Clerico holds a Bachelor of Science in Biology with a minor in Chemistry (magna cum laude) from Mars Hill College, as well as a Master of Science in Biology from the University of Central Florida. He is also a member of the Draper City Planning Commission and spends his free time volunteering with the Brighton Ski Patrol. Mr. Clerico is an avid backcountry skier and soccer player and enjoys spending time outdoors with his wife, three children, and Belgian Shepherd.

Mark Compton

President, Utah Mining Association



Mark Compton, president of the Utah Mining Association (UMA) since July 2012, has a strong background in government relations and natural resources policy. Before joining UMA, Mark spent four years as the Government Affairs Manager for the Northwest Mining Association in Spokane, Washington. Previously, he served for seven years on the congressional and gubernatorial staff of C.L. "Butch" Otter of Idaho, and spent a decade as a forester and public affairs specialist in the forest products industry in Idaho and Montana. Originally from Virginia, Mark has been married for twelve years to his wife, Kelley.

Irene C. Cuch

Chairwoman, Ute Indian Tribe Business Committee representing the Uintah Band



Chairwoman of the Ute Indian Tribe Business Committee representing the (Uintah Band). The Ute Tribal Business Committee is the governing body of the Ute Indian Tribe and members are elected from among the tribal membership according to band. As a sovereign nation, the Tribe establishes all policies regarding its energy estate and is responsible for the implementation and coordination of all governmental activities on the Reservation. Irene has served on the Business Committee in the past and has dedicated her career to serving the Tribe in numerous capacities over the years.

Rob Dubuc

Western Resource Advocates

Mr. Dubuc joined Western Resource Advocates Salt Lake City office in August, 2009. Most recently, he was President/CEO of Aspen Homes Development, and a partner in Aspen Homes Real Estate. Mr. Dubuc had a distinguished career in the military, including several years as a Minuteman Missile combat crew commander and a Russian cryptologic linguist. He was also responsible for monitoring nuclear weapons production in the former Soviet Union to ensure compliance with arms reductions treaties. He completed his military service at the rank of major. Mr. Dubuc has a B.A. in Business Management from the University of Maryland, a Masters of Business Administration from the University of Montana, and his Juris Doctorate, Certificate in Environmental & Natural Resource Law, from the University of Utah, College of Law, in Salt Lake City, Utah.



Colin Duncan

Recovered Energy Manager, Ormat Technologies, Inc

With over 30 years' experience in the renewable energy industry, Colin Duncan, recovered energy manager at Ormat Technologies, Inc., has a multitude of success covering a variety of renewable energy technologies including solar, wind, geothermal, biomass, hydroelectric, waste heat recovery, fuel cells and others. Colin is responsible for the sales, commercialization and marketing for renewable energy products and projects in North America. He also works to identify opportunities for viable Recovered Energy REG® Generation projects worldwide. Throughout his time working for Ormat and his previous employer, NV Energy/Sierra Pacific Power, Colin has gained an extensive knowledge in renewable energy and geothermal contracts, transmission systems, distribution systems, planning and power production, and regulatory and legislative activities on a state and federal level.



Marie Durrant

Holland & Hart LLP

Ms. Durrant assists energy and mining clients with environmental compliance and litigation concerning the Clean Air Act, the Clean Water Act, NEPA, the National Historic Preservation Act, consultation with Indian tribes, federal public lands issues, and other environmental matters. In addition, Ms. Durrant advises clients on both domestic and international project negotiations, such as project consultation involving cutting-edge technologies and unconventional locations. She has extensive experience with environmental legislative and regulatory work, including analysis and critiques of proposed rules and administrative actions.

Ms. Durrant also works with clients to help them meet Clean Air Act requirements for New Source Review and negotiated settlements with the EPA for potential violations. Ms. Durrant also has expertise in historic preservation and consultation with Indian tribes to comply with NHPA Section 106. She has conducted training and outreach with Indian tribes, energy companies, and the FCC related to NEPA and NHPA compliance for cell towers used to control energy operations in rural areas. She has also helped clients meet NEPA and NHPA requirements and obtain FONISs for energy projects including consultation with the U.S. Fish and Wildlife Service for endangered species and flood plain compliance.

Dr. Eric Eddings

Associate Dean of Research, University of Utah

Professor Eric Eddings' is Associate Dean of Research at the University of Utah College of Engineering. His research interests focus on studies of the formation, control and fate of a variety of air pollutants for a range of industries, including the electric utility, cement, metallurgical, and the pulp and paper industries. He has been involved in both experimental and computational analyses of these processes. These studies have been carried out with a wide variety of solid, liquid and gaseous fuels, and encompass fundamental lab-scale research through pilot-scale verification. Professor Eddings is Director of the Combustion Research Group at the University of Utah, with responsibility over two laboratory sites including the Industrial Combustion and Gasification Research Facility. He received his Ph.D. in Chemical Engineering from the University of Utah.



Jeff Edwards

President & CEO, EDCUtah

Jeff was appointed President & CEO of the Economic Development Corporation of Utah in January 2005. He joined the company as the Vice President of Client Services in June 2001. A public-private partnership founded in 1987, EDCUtah has responsibility for recruiting new businesses to Utah by working with corporations and site consultants across the US. The company also works with municipalities in all parts of the state and does economic research and modeling as well as provides assistance to existing Utah businesses with expansion and financing resources. EDCUtah works closely with the Utah governor's office and others to target recruiting in energy, biotech, aerospace, outdoor products, information technology and financial services. Over the last three years, has assisted companies in the creation of more than 15,000 new jobs and more than \$3B in capital investment in Utah. Jeff was also named CEO of the Year for Non-Profit companies by Utah Business Magazine in May 2008 and 100 Most Influential People by Utah Business Magazine in January 2011.



Kate Fay

Senior Advisor, Energy and Climate, EPA

Kate Fay is a nationally known expert in environmental and energy policy development and implementation. In February 2011, Kate was appointed to serve as EPA Region 8 Senior Advisor for Energy and Climate, reporting directly to the Regional Administrator. For the preceding four years, Kate was Energy Manager for the Colorado Department of Public Health and Environment where she has led the Department's participation in the statutorily mandated overhaul of the Colorado Oil and Gas Commission regulations - and their subsequent implementation. Kate is also presently leading an effort to design Colorado's approach for meeting a tighter federal ozone standard, expected to be announced soon by the EPA.

Kate has been a German Marshall Fund Environment Program Fellow, a member of the Aspen Institute Series on Natural Resources and the Environment, an advisor to the Center for Clean Air Policy's national dialogue on transportation, and the environment and an adjunct professor of environmental planning at the University of Colorado at Denver.

SPEAKERS AND PRESENTERS

Richard Franklin

*Executive Director,
Cleantech Open*

Richard brings 25 years of CEO, COO, CSO, SVP level experience with corporations such as Reebok, Coors, Head Sports, Seven-Up, TCI, Nestle etc. His expertise is in strategic, organizational and process change which transforms ecological challenges with economic returns. He has done sustainability work, CSR (Corporate Social Responsibility) projects, EMS (Environmental Management Systems), eco-strategies and brand positioning for organizations such as Merrick, Channel 9, Douglas County Schools, St. Mary's University, Accuwater, Texas Business for Clean Air, etc. Among his many community activities are United Way Denver, Children's Museum, Renewable Energy Task Force, Audubon Society, Denver South Metro Chamber, Renewable Energy Taskforce, CORE, Clean Start Incubator, Rocky Mountain Cleantech Open, Earth Protect and CCIA.

Richard earned a Bachelor of Science degree in Marketing from St. Mary's University, Halifax, Nova Scotia; a Master of Business Administration from Dalhousie University, Halifax; and was awarded an Honorary Doctorate of Commerce degree from SMU, Nova Scotia in 1999. In 2008, the South Metro Chamber awarded Richard the "Volunteer Leader of the Year" award.

Ken Geisler

*Vice President,
Siemens Energy & Automation*

Ken Geisler has over 29 years of management and technical experience in defining, designing, developing and implementing large integrated solutions in the energy industry. His background covers real-time analysis, control and integration for systems addressing both operations and planning for transmission and distribution systems, as well as wind generation, substation automation and protection, and distribution automation. Ken has served in various technical, management and executive roles for large international engineering companies.

From 2004-2010 Ken served as chief architect, Smart Grid, Siemens Energy & Automation. In this role he was responsible for solution vision, direction, strategy, definition, design and initial implementations for all areas of EA business, including Smart Grid solutions related to transmission control centers; distribution control centers, distributed energy resources, substation intelligence and automation; distribution automation, demand side management and response; and the overall integrated solution.



Prior to his time with Siemens, Ken was president, CEO and chairman of the board of Configured Energy Systems Inc. from 1991-2004. He was responsible for the vision, direction, strategy, operations, financial performance and management of the executive team. While in this role, he grew the company from 2 to 150 people with \$17 million in annual revenues, brought in venture investment to support growth and drove the company to become the largest outage management solution provider in the market during that period.

Ken earned a B.S. in Electrical and Computer Engineering and a M.S. in Electrical Engineering from the University of Wisconsin, Madison.

Paul Genoa

*Director, Nuclear Energy
Institute*

Paul Genoa is the senior director of policy development at the Nuclear Energy Institute. In this capacity, he helps shape comprehensive energy and environmental policy initiatives and advocates them to lawmakers, NGOs, the media, academic audiences and other key stakeholders. He is also vice chair of the Industry Trade Advisory Committee on Energy, chartered by Congress to advise the U.S. Secretary of Commerce and the U.S. Trade Representative

His ability to make complex science accessible to a general audience leads to him being frequently quoted in diverse media outlets such as the Wall Street Journal, Washington Post, National Public Radio, Platts Energy Week TV, Popular Mechanics, The Economist, Nature and Discover magazines.

Genoa's career spans 30 years in the nuclear industry and includes roles as a health physicist at Florida Power Corporation's Crystal River Nuclear Plant, Arizona Public Service Company's Palo Verde Nuclear Generating Station and at the Consumers Power Big Rock Point Atomic Plant in Michigan. He joined NEI in March 1995.



Rob Glen

*Regional Director,
Bloomberg New Energy Finance*

Rob Glen has served as Bloomberg New Energy Finance's regional director for Western North America since 2008. Glen's career includes fifteen years in the securities business, most of them in corporate strategy and technology investment banking with Prudential Securities. For the nine years prior thereto, he was a staff correspondent and contributing editor for National Journal in Washington, focused on economics policy, and a nationally syndicated newspaper columnist. He holds an MBA from New York University, MA from the Johns Hopkins School of Advanced International Studies and BA from the University of North Carolina at Chapel Hill.



Natalie Gochnour

*Vice President,
Salt Lake Chamber*

Natalie Gochnour serves as an executive vice president for policy and communication and chief economist at the Salt Lake Chamber. In this role she oversees the public policies and communications of Utah's largest and longest-serving business association and provides economic counsel to the Chamber's more than 6,000 member businesses.

In the past four years, Gochnour has helped secure increased funding for highway projects, TRAX light rail, and FrontRunner commuter rail, served as the point person for the Chamber on health system reform and bolstered Utah's economy by advancing policies that strengthen Utah's business climate. She is also the policy architect of Downtown Rising, a movement to enhance Utah's capital city.

Natalie has both an undergraduate and graduate degree in economics from the University of Utah. When she is not working, you can find her walking her yellow lab along the Jordan River Parkway, on the sidelines of her two children's soccer games, or up on the slopes skiing with her husband of 25 years.



SPEAKERS AND PRESENTERS

John Gordon

Manager, Ceramatec, Inc.

Mr. Gordon has been developing technologies utilizing electrochemistry for over 25 years, most recently applied to oil upgrading. Mr. Gordon studied Extractive Metallurgical Engineering at Columbia University in New York then was a process engineer in Copper, Arsenic and Magnesium plants in Washington State and Utah before joining the R&D company, Ceramatec, 21 years ago. During that time he has been issued 33 US Patents had about 50 more on file.



Elizabeth Goryunova

Executive Vice President & Chief Operating Officer, World Trade Center Utah

Elizabeth Goryunova is the Executive Vice President & COO of the World Trade Center Utah and Director of International Relations for the Salt Lake Chamber. At the WTCU she is responsible for organization operations and strategic development, including establishing collaboration agreements with international business entities, diplomacy and educational programs and events as well as conducting client consultations. At the Salt Lake Chamber she is responsible for international business development services for members of the Salt Lake Chamber, including expanding Chamber network abroad, international hosting and events as well as the Chamber International Committee.



Sidney Green

Professor, University of Utah

Sidney Green is Research Professor at the University of Utah, where he holds an appointment in Mechanical Engineering. He is also Senior Advisor for Schlumberger, the world's largest oilfield services company. He is a founder and is retired President / Chief Executive Officer of TerraTek, a well known geomechanics engineering firm. TerraTek is a spin-off from the University of Utah, started in 1970 when Dr. Wayne Brown persuaded Mr. Green to leave General Motors and come to Salt Lake City. TerraTek was the first commercial tenant in the University of Utah Research Park in 1972, and was acquired by Schlumberger in 2006. He has published numerous papers and reports, holds a number of patents, has given



many presentations, and has received a number of geomechanics recognitions. He is the past chairman of the National Academy of Sciences US National Committee on Rock Mechanics, has served on the National Research Council committee on Destruction of Non-Stockpile Chemical Weapons, on the Department of Defense committee for archiving Nuclear Effects Geotechnical Data, on the Academy of Sciences Methane Hydrates Research committee, and most recently on the Academy of Sciences Committee on Induced Seismicity from Energy Recovery. Mr. Green has a BS and MS in Mechanical Engineering, and the degree of Engineer from Stanford University in Engineering Mechanics. He received the Outstanding Engineer award for the State of Utah, Entrepreneur of the Year from the Mountain West Venture Group of Utah, the Honorary Alumni Award from the University of Utah, and the 2009 Engineering Achievement award from the University of Utah. He is a past member of the Greater Salt Lake Chamber of Commerce Board of Governors, and is a member of the US National Academy of Engineering.

Karen Gunn

Associate Provost, Economic Development and Business Partnerships, Salt Lake Community College

Karen has over thirty years' experience as an educator, corporate manager, and entrepreneur. Currently, Karen has oversight for programs associated with professional and continuing education, workforce training and development, global entrepreneurship, small business development, and women's business training. Karen actively participates in several community and economic development initiatives on behalf of Salt Lake Community College, and provides institutional leadership as part of Utah's Energy Cluster Accelerator Partnership and Governor Gary Herbert's state energy initiative. She has received academic and community recognition including teaching excellence awards, refugee community service, and women's leadership advancement, and was named the 2009 Women in Business Champion by the US Small Business Administration. In addition, Karen is co-author and editor of Foundations of Business, published by Prentice-Hall, Inc. and ranked as a "best value" for college throughout the United States.

Karen holds a Master of Business Administration degree with an emphasis in international business and economics.



Bryan Haney

Senior Project Manager, Nexant

Bryan is a Sr. Project Manager with Nexant, located in Salt Lake City, UT. Over the past five years, he has overseen the development and administration of commercial and industrial energy efficiency programs on behalf of utilities in the Northwestern United States. Before starting at Nexant, he served as an analyst for the Energy Information Administration, and conducted energy assessments as part of the DOE's Industrial Assessment Center at the University of Delaware. He holds a degree in Chemical Engineering, and a Master's in Energy and Environmental Policy.

Clint M. Hanni

Stoel Rives LLP

Clint Hanni practices in the Corporate Group of the Salt Lake City Office. His finance law practice focuses on all aspects of renewable energy project finance law, commercial finance and debt finance. He has negotiated and drafted a broad array of commercial finance, debt finance and renewable energy project finance loan documents, including credit agreements, loan agreements, security agreements, guaranties, pledge agreements, forbearance agreements, loan modification agreements, promissory notes, intercreditor agreements and subordination agreements. He represents clients located within Utah and outside Utah, including California and other western states. His work as a lawyer has included a wide range of commercial finance transactions, including large syndicated credit facilities, private placements and single-lender transactions. He represents both borrowers and financial institutions, including national banks and Utah-based banks, asset-based lending companies, equipment finance companies and financial service companies. He has experience in multiple-creditor settings and second-lien finance. He also has experience as a Salt Lake City-based lawyer in debt finance restructuring, loan workout finance, debtor-in-possession (DIP) finance, contract renegotiation, commercial project finance and real estate finance. Clint has applied his knowledge of commercial finance and project finance to renewable energy projects, including wind, ethanol, solar and geothermal renewable energy projects. He is an expert on all aspects of the Uniform Commercial Code (UCC) of Utah and California.

SPEAKERS AND PRESENTERS

Jeff Hartley

Hartley & Associates

Jeffrey Hartley has been working in public policy and political strategy for nearly 20 years. Hartley served as a Senior Policy Advisor and Communications Director in Congress, and has been a strategic consultant to several high-level campaigns and causes across the country.

Hartley has a strong record of helping corporate clients find solutions to government challenges. His government affairs consulting practice is one of the leading firms in Utah specializing in energy, and his clients cover the spectrum of energy production: oil & gas, oil shale, renewables, nuclear and both electric and gas utilities. Hartley currently serves on the Salt Lake Chamber Energy Task Force and Uintah Basin Air Quality Working Group, and previously served on the Governor's 10 Year Energy Plan Task Force.

Hartley graduated from Brigham Young University.



Kimberley Heimsath

Vice President, Environment, Health and Safety, Questar Corporation

Graduated with a B.S. and M.S. in Environmental Resources from the University of Utah.

Started her career in the Environmental and Safety Department at the University of Utah.

After 5 years of working on extremely diverse health and safety projects, left for an entry-level environmental and safety coordinator position at the former Mountain Fuel Supply, now Questar. Duties from Day 1 included working with Questar employees to find the safest way to do their work and to minimize environmental impacts from Company activities.

Sit on Questar's executive management committee and lead a staff of 15 employees who work with Questar's subsidiaries to reach the goal of compliance and beyond... for all safety and environmental activities. In 2011 coordinated our first corporate social responsibility team and published our first Corporate Social Responsibility Report in early 2012.

Participate on the Interstate Natural Gas Association of America and the American Gas Association to assist our industry work with the regulators as they craft new regulations or make changes to existing regulations.



Locally active with both the U of U Rocky Mountain Center for Occupational and Environmental Health and the Utah Safety Council, initially as a continuing education instructor for environmental regulations and various safety topics, and currently as member of the Advisory Boards for both organizations.

Chris Helmers

Program Manager, Rocky Mountain Power, Energy Efficiency Program

Over 14 years of experience in working with commercial and industrial customers across 5 western states to identify and implement energy efficiency measures. The resulting projects have saved customers millions of dollars in operating costs and hundreds of millions of kilowatt hours of energy.

Program Advisory Committee Member: Salt Lake Community College, Energy Management Program

Past voting member of the Northwest Power Planning Council: Regional Technical Forum

Executive Board: Association of Professional Energy Managers

Association of Energy Engineers: Certified Energy Manager (CEM)

Northwest Energy Efficiency Alliance: Utility Representative: Commercial Sector

Lane Community College: Associates of Science - Energy Management



Heidi Henderson

Director of Sales, Engineered Tax Services

Heidi Henderson is the Director of Sales for the Midwestern U.S. for Engineered Tax Services. Heidi began her career in accounting for a destination resort development in northern Utah. She later earned her real estate license, where she helped a variety of developments market, advertise and plan for multiple projects. She later expanded her education to include business and marketing and successfully helped numerous companies create campaigns that expanded their market reach and contributed to their overall success. Ms. Henderson has a thorough knowledge of construction, development and accounting.



Leonard Herr

Air Resource Specialist, BLM

Started with BLM in July of 2009. Prior to that worked 5 years with the Idaho Department of Environmental Quality as the airshed manager for Idaho's southwest region. Supervised a diverse air staff and dealt with significant regional air quality issues including pending ozone nonattainment. Worked with a broad spectrum of public and private stakeholders in developing innovative proactive control programs.

Worked many years as an air quality specialist for the North Coast Air Quality Management District in Northern California. Developed and managed the Smoke Management Program for the District, including serving as the burn authorization officer. Private sector experience doing environmental work for a large corn processing plant in Minnesota, working at an oil refinery in Los Angeles doing fugitive emission inspections, and owning and operating small businesses (dairy farm, bookstore, restaurant).

BS in Natural Resources from Humboldt State University in California (87).



Dr. Scott Hill

Associate Director, Bingham Energy Research Center

Dr. Hill received his Bachelor and Doctoral degrees in Chemical Engineering from Brigham Young University. He has worked his entire career in the area of energy research and development, with an emphasis on combustion, gasification, and processing of fossil fuels (i.e., gas, coal, oil sands, oil shale). Following graduation he worked at Los Alamos National Laboratory on numerical simulations of various processes including coal gasification. He then worked in the Advanced Combustion Engineering Research Center (ACERC) at Brigham Young University, where he managed the Combustion Computations Laboratory and directed development of their multi-dimensional combustion/gasification simulation codes. Dr. Hill currently works for Utah State University as the Director of their Carbon Energy Innovation Center (CEIC) located near Price, UT. The CEIC facility is being established to provide companies a location where they can install pilot-scale equipment to test, develop, and evaluate their technology for potential commercialization. The first pilot-plant being established at CEIC is for the Clean Coke process, which produces metallurgical quality coke from various carbonaceous feedstocks, including waste coal fines.



SPEAKERS AND PRESENTERS

Natalie Hocken

*Senior Vice President,
Transmission & System
Operations, PacifiCorp*

Natalie Hocken is senior vice president, transmission & system operations at PacifiCorp. She was appointed to this position in September 2012. Hocken is responsible for management of transmission services, planning and system operations for PacifiCorp's six state service area. Prior to this appointment, she was the vice president and general counsel for Pacific Power from January 2007 to August 2012.

Hocken joined PacifiCorp in 2002 and has held the positions of lead counsel and assistant general counsel in its office of general counsel. Prior to joining PacifiCorp, Hocken was an energy attorney with the law firms of Heller Ehrman LLP and LeBoeuf Lamb Greene & MacRae LLP in Portland, Ore.

Hocken earned a bachelor's degree in 1991 from the University of Washington and a juris doctorate degree in 1994 from the University of Oregon. She completed the Utility Management Certificate Program offered by Willamette University Atkinson Graduate School of Management in December 2005.

Hocken currently serves as an executive sponsor of Pacific Power's Rose Festival Court and is a senior fellow of Class XXIII of the American Leadership Forum of Oregon



James Holtkamp

*Team Leader,
Holland & Hart LLP*

Mr. Holtkamp is the Climate Change Practice Team Leader at Holland & Hart and resident in the Firm's Salt Lake City office. Mr. Holtkamp has actively represented industry and government clients in various environmental, natural resources and energy project development issues throughout the United States and overseas. He has also been general counsel to an electrical utility system and has represented various clients in utility regulatory proceedings. He is



extensively involved in climate change issues, including developing state, regional and national climate change policies and programs; avoided deforestation sequestration in Central America; carbon credit trading in the United States, Canada, Latin America and Europe; corporate climate change policies in the energy sector, and carbon capture and sequestration. He served on the staff of the U.S. Senate Select Committee on Presidential Campaign Activities (Watergate Committee) and as an attorney for the U.S. Department of the Interior before entering private practice. He served as President of the Rocky Mountain Mineral Law Foundation in 2005-2006. Mr. Holtkamp is an adjunct professor of law at the University of Utah. He received his B.A. from Brigham Young University in 1972 and his J.D. from George Washington University in 1975.

Robert Hooper

*Business Development
Manager, Chevron
Energy Solutions*

Robert Hooper brings a wealth of industry experience and a passion for Energy Conservation to his employer Chevron Energy Solutions. In his current position as Business Development Manager for the Intermountain Region, Mr Hooper consults with public entities such as K-12, Higher Ed, and State and local municipalities. He specializes in helping these unique customers maximize energy efficiency; significantly reduce energy consumption while improving the environment. His past experience includes Regional Sales Director for Yamas Controls Intermountain where he oversaw sales and marketing operations in the Intermountain area, managing the National Material Sales Center with Johnson Controls and his current position with Chevron Energy Solutions where he serves as the Business Development Manager for the Intermountain Region. Robert has a Bachelor of Science Degree from Weber State University, Associates Degree in Economics from Brigham Young University Idaho (Ricks College) and is a Certified Business Energy Professional through the Association of Energy Engineers. Robert lives in Layton, Utah and has been married to his sweetheart Susan, just celebrating their 24th anniversary. They have 3-children Chris, Caden and Mykell. Mr Hooper does a great deal of volunteer work in the community that includes Scouting (Venturing Leader, Scout Master) and Coaching soccer for more than 10-years. He is an avid fly fisherman and outdoorsman.



James Howe

Director of Government Relations, USEC

Jim Howe is responsible for interacting with congressional, state, administrative, and nongovernmental organizations on USEC's work in uranium enrichment and the storage and transportation of spent nuclear fuel. His work focuses on the state-of-the-art American Centrifuge enrichment plant as well as leading edge storage technologies developed by NAC International, a subsidiary of USEC.

Prior to joining USEC, Howe served for two years as Deputy Assistant Secretary for Legislative Affairs at the Department of Homeland Security. He retired from the U.S. Coast Guard in 2008 following 27 years of commissioned service. His last active duty assignment began in 2005, where as Chief of Congressional Affairs he oversaw all Coast Guard activity related to Capitol Hill.

From 2003 to 2005, Howe served in the Office of the Vice President of the United States as a Special Advisor for Homeland Security, focusing on border and transportation security issues.

He is a 1981 graduate of the U.S. Coast Guard Academy, where he earned a Bachelor of Science degree in Government. In 1991 he earned a Master of Liberal Arts degree in Government from Harvard University (Extension School). In 2002 he graduated from the Marine Corps War College, earning a Masters of Strategic Studies. He currently is pursuing a Master of Science in Space Studies from American Military University. Howe is a graduate of the MIT Seminar XXI program and served as Vice Chairman of the Editorial Board for the U.S. Naval Institute. He is married with five children and lives in northern Virginia.



**Representative
Greg Hughes**

House District 51

Utah State Representative Greg Hughes resides in Draper, Utah with his wife Krista and their three children. He is a small business owner working in real estate development and property management.

Representative Hughes was elected to the Utah Legislature in 2002 and is currently serving in his sixth term. In 2010, Greg was elected as Majority Whip in the House Leadership and continues to serve in that position.

Notable accomplishments during his time in the Utah State Legislature include service as the Chair of the House Education Committee for four Sessions, House Speaker Pro Tem, Vice-Chair of the House Rules Committee, a member of the House Tax and Revenue Committee, and a member of the House Law Enforcement and Criminal Justice Committee. Greg also founded the House Conservative Caucus. Greg has spent his time in the legislature fighting for lower taxes, reform in public education and helping our veterans and National Guard.

Outside his Legislative service, Greg is also active in the community with positions as Chairman of the Board of Trustees of Utah Transit Authority, and on the Boards of Summit Academy Charter School and United Way of Salt Lake. As the leader of the UTA Board, Greg primarily champions alternative fuel sources, transit-oriented development and technological innovation. On weekends you may also find him enthusiastically coaching from the sidelines of a Little League football game or cheering at his children's soccer games.

Douglas Hunter

General Manager, UAMPS

General Manager of Utah Associated Municipal Power Systems or UAMPS, is a 30 plus year veteran of the electric utility industry. UAMPS is a joint action agency, organized in 1980 to plan, finance and operate electric power projects for its members. Its members include 51 municipals throughout Utah, Arizona California, Idaho, Nevada, New Mexico, Oregon and Wyoming.



Mr. Hunter believes that public power systems are powered by two main principles; first, to provide economically priced and reliable energy, and second to provide the consumer a voice thus allowing a community decision-making process. Mr. Hunter holds a Bachelors degree in biochemistry from the University of California and a Masters degree in business administration from Utah State University.

**Representative
Eric K. Hutchings**

House District 38

Representative Eric Hutchings was elected to the Legislature in 2001 and currently serves as the Chair of the Executive Offices Criminal Justice Sub-Appropriations Committee and Chair of the Utah State International Trade and Relations Commission.

Eric grew up on a farm in South Jordan and has always been interested in better and smarter ways to work with the land. When he was working his way through college he worked for an industrial scale company that allowed him to work in and crawl through just about every mine, pit, quarry, power plant, and load out in the state; and since he was elected to the legislature nearly twelve years ago he has been a strong supporter of new technologies and processes that can help to keep the environment of the state clean, abundant and prospering.



Dr. Tatjana Jeremovic

**Director of the Utah Nuclear
Engineering Program,
University of Utah**

Dr Tatjana Jevremovic, native of Serbia, received her BS and MS degrees in nuclear engineering at the University of Belgrade, Serbia, and her PhD degree in nuclear engineering at the University of Tokyo, Japan. She was a project manager in Energo-project Co. in Belgrade for 8 years, Chief Engineer in Nuclear Fuel Industries, Ltd. in Japan for 5 years; she was a professor at the University of Tokyo for 2 years, at Purdue University for 8 years. While in Nuclear Fuel Industries, Ltd. in Japan, she has developed a nuclear reactor lattice physics code for advanced simulations of



nuclear power reactor performances. The code was selected to be included as a part of the BWR power plants licensing procedure in Japan. In 2001 she received a prestigious company annual award for that development. From 2009 she is Endowed Chair Professor and Head of Nuclear Engineering Program and The University of Utah, Salt Lake City. She authored a textbook, Nuclear Principles in Engineering published by Springer, that is used at a number of universities worldwide. She published over 150 conference and journal papers mainly in the fields of nuclear reactor physics modeling, radiation transport, nuclear medicine, nuclear forensics and nuclear engineering education.

Richard Kauss

**Superintendent of
Support Services,
Kennecott Utah Copper**

Richard has over 43 years of experience in the mining industry. He has worked at Kennecott for the last 16 years where he currently manages the Operational Services group that oversees maintenance of all building facilities, road infrastructure and mobile equipment across Kennecott. He developed, implemented and manages the highly successful Kennecott idling reduction program. Additionally, Richard is developing and implementing the compressed natural gas (CNG) alternative fuel program for light vehicles and medium duty trucks. Prior to coming to Kennecott Richard worked at Copper Range where he managed the Smelter in Michigan and was responsible for the environmental cleanup of the property after Copper Range closed their business.



Kenner Kingston

**Senior Principal,
Director of Sustainability
Architectural Nexus**

Kenner Kingston is an architect and partner at Architectural Nexus, a Salt Lake City firm with a practice reaching throughout the West. Kenner was an early adopter of the USGBC's LEED Rating System. He is Director of Sustainability at Nexus and is responsible to initiate research about, spearheading education for, and ensuring implementation of sustainable practices within the firm.



Ashley Korenblatt

CEO, Western Spirit Cycling

Ashley Korenblatt is CEO of Western Spirit Cycling, a national bicycle outfitter and one of the largest holders of recreation permits on the public land system. She formerly ran Merlin Metalworks, a bicycle manufacturing company focused on titanium alloys. Ashley served on the Utah BLM Resource Advisory Council for two terms, as well as the Utah Outdoor Recreation Economic Ecosystem Taskforce. She has testified before Congress on the recreation economy and served on Get Out West Committee for the Western Governor's Association. Ashley is a past president of the International Mountain Bicycling Association (IMBA), and recently created the Public Lands Initiative at IMBA, representing the bicycle industry in over 30 Wilderness and land protection bills around the country. She has an MBA from the Tuck School at Dartmouth and was inducted into the Mountain Bike Hall of Fame in 2003.



Dave Krug

RodMax Oil & Gas

Dave Krug was born and raised in Minnesota. In 1983 I graduated from the Fluid Power Technology curriculum presented by Granite Falls AVTI in Granite Falls, MN. His entire adult career is based around electric and chemical energy management as it relates to powering, controlling and "using" hydraulic energy to do "real-work" in a wide variety of differing applications. Hydraulics simply defined is the transmission of energy within a confined column of fluid. Electricity and diesel are the two primary energy sources we utilize. Past and current projects include manufacturing sintered polycrystalline diamonds in high tonnage high temperature multi-axis presses. The diamonds typically are used in down-hole oil and gas drill bits. We have chemical / mining applications all over the world where millions of tons of bulk high explosives are blended and dispensed in mining operations. Extensive mineral coring exploration drill rigs including deep sea ocean floor core drilling and retrieval while exploring for minerals and methane hydrates. Vehicle drives in the form of railroad "mini-locomotives". RodMax Oil & Gas, Inc. is now beginning to manufacture hydraulically powered and controlled surface units for operating rod pumped oil and gas wells. Mountain States Steel, Inc. in Lindon Utah is our manufacturing, logistics and mobile crane partner plus base of operations.

Chamonix Larsen

Architect, GSBS Architects

Chamonix Larsen is a LEED Accredited Professional who focuses on green building and energy efficient design. At GSBS she helps clients with high performance building design as well as behavioral training for staff to improve energy efficiency. Chamonix understands long term building ownership. Prior to working at GSBS, Chamonix served as the Energy Program Director for the Utah Division of Facilities where she raised standards for building efficient and healthy spaces for State business. She also coordinated renewable energy projects all across Utah. Chamonix has a Master of Architecture degree from the University of Utah.



Chamonix is interested in developing sustainable communities and economies in Utah. She serves on the Board of Wasatch Community Gardens and the Utah Chapter of the US Green Building Council. She values education and serves on Salt Lake Community College's Program Advisory Council for Energy Management. She has lectured on high performance building topics for several organizations such as the National Association of State Facility Administrators, The Utah League of Cities and Towns, Brigham Young University, and the Salt Lake Sustainable Building Conference. Chamonix was recently recognized for her abilities to expand opportunities within her given positions by Utah Business Magazine as one of "30 Women to Watch 2010".

Doug Larson

Executive Director, WGA, Western Interstate Energy Board

Doug Larson is the Executive Director of the Western Interstate Energy Board, an association of 11 western states and three western Canadian provinces. Members of the Board are appointed by the governor or premier. Mr. Larson also supports the work of the:

Western Interconnection Regional Advisory Body established by Western Governors under Section 215 of the Federal Power Act to advise the Western Electricity Coordinating Council, the North American Electric Reliability Corporation and the Federal Energy Regulatory Commission on electric reliability issues;

The Committee on Regional Electric Power Cooperation, a joint committee of the Western Conference of Public Service Commissioners and the Western Interstate Energy Board, established to address Western electricity issues; and

The Western Interconnection State-Provincial Steering Committee which provides input into interconnection-wide transmission planning and fosters policies to make more efficient use of the existing grid and lower the cost of integrating variable generation.

Mr. Larson has 37 years of experience in Western energy policy issues. He holds a Master of Public Policy degree from the University of Michigan.

Brock Lebaron

Deputy Director, Utah Division of Air Quality



Brock completed an undergraduate degree in Biology in 1975 from Utah State University. He went on to complete a graduate degree in Meteorology from Utah State University in 1980. His graduate work focused on meteorology in mountainous terrain.

After graduation, Brock worked as a staff scientist for Battelle - Pacific Northwest National Laboratories in Richland, Washington. During this time he specialized in atmospheric and climatic research, and published over 15 papers in peer-reviewed journals.

In 1990 Brock started working for the Division of Air Quality as an air quality modeler. He has worked on models for both air quality permits and state implementation plans (SIPs), and drafted the Division's first modeling guidance. He coordinated the development of the State's rules on modeling criteria and hazardous air pollutants.

He serves as a state representative on the Western States Air Resource Council (WESTAR), a board member of the Western Regional Air Partnership (WRAP), and has been a member of the Air and Waste Management Association since 1990. He was actively involved with the Governor's Quality Growth Commission and the ENVISION Utah process.

In 2011 Brock became the Deputy Director for the Division of Air Quality with primary responsibility for coordinating air issues in the rural areas of Utah. He is currently focused on wintertime ozone issues in the Uintah Basin where a multi-agency study is being planned for this winter.

SPEAKERS AND PRESENTERS

Adolph Lechtenberger

CEO, Red Leaf Resources

CEO Adolph Lechtenberger joined Red Leaf Resources in November, bringing with him vast experience in natural resource development. He has worked in surface mining, refining and marketing of petroleum products, and was the new technology manager for the Colony oil shale project in the 1980s. Adolph has overseen the full life-cycle of energy production and has helped several companies through growth periods that require strong leadership.



Darin Lowder

Ballard Spahr LLP

Darin Lowder is an attorney in the Business and Finance Department and a member of the Energy and Project Finance Group, Real Estate Department, Tax Credits Group, and Climate Change and Sustainability Initiative. He focuses his practice on energy, project finance, and related tax and public financing tools, including public-private partnerships. Mr. Lowder has worked with utilities, energy project developers, tax equity investors, engineering and construction firms, project site owners including governmental and housing authorities, and power purchasers on a variety of renewable-energy, alternative-energy and conventional-fuel power projects.

Mr. Lowder is experienced with project technologies ranging from solar photovoltaic systems, onshore and offshore wind development, biomass and biofuel projects, coal-fired generation, next-generation nuclear power, energy efficiency projects, and other alternative energy technologies. He has also advised clients on renewable energy tax and regulatory issues affecting the energy industry, including the large-scale military clean energy procurement.

Before joining Ballard Spahr, Mr. Lowder worked in the real estate, financial services, and nonprofit sectors, serving as an economist for a consulting firm, a strategic marketing director for a publicly-traded home builder, a business strategist for a publicly held technology company, and an executive at a nonprofit educational organization.



Curtis Mansfield

Managing Director, T&D Support Services, PacifiCorp

Mansfield was appointed to the position of managing director, transmission & distribution support services at PacifiCorp in June 2004. In this capacity he oversees PacifiCorp's vegetation management, transportation, street lighting, rubber goods testing and distribution equipment maintenance centers (DEMC) programs for Rocky Mountain and Pacific Power.

Additionally, he is responsible for the logistics, disaster and risk management, scheduling & compliance organization, pole test and treat along with the facility inspector programs for the Rocky Mountain Power business unit.

Mansfield joined PacifiCorp in 1981, working up through the business units, ranging from meter reading, journeyman lineman, operations manager, customer service director, distribution dispatch director, and managing director of major projects. As managing director of major projects Mansfield oversaw and managed the construction requirements for PacifiCorp's Quantum Leap project, a \$203 million, three-year Wasatch Front investment program. He has also served our company as the 2002 Salt Lake City Winter Olympic Command & Control Center project manager.

Curt currently serves on the board of directors of NeighborWorks Salt Lake City. NeighborWorks is a non-profit organization that creates opportunities through youth and economic development in partnership with residents, government, and businesses to build and sustain neighbourhoods of choice.



Eric Martin

Associate, Stoel Rives LLP

Eric Martin concentrates his legal practice in the areas of permitting and natural resource development. He helps clients obtain the property rights and secure the local, state and federal permits needed to implement their development projects. Eric's experience includes representing clients before local governing bodies, the Oregon Land Use Board of Appeals and the Oregon Court of Appeals.

Prior to law school, Eric taught English as a Peace Corps volunteer in Targu Ocna, Romania (2003-2005) and worked at Historic Boston Incorporated, a historic preservation revolving fund and advocacy organization (2002-2003).



JT Martin

Managing Director, Integrated Water Management

JT Martin is the Managing Director of Integrated Water Management (IWM) an E&P waste management company located in Utah's Uintah Basin.

JT brings to IWM and E&P waste management a unique and broad operational perspective to the industry. He has owned and operated a precious metals manufacturing business, been the National Director of Marketing for two animal protein companies and has lived and worked in Central Europe for a numbers of years as a Deputy Marketing Director for an airline serving Central and Eastern Europe. Mr. Martin has served as an elected official for Salt Lake City where he is known for his work on riparian restoration efforts, environmental stewardship, energy substantiality and urban farming legislation and advancement. The district Mr. Martin represented was directly affected by the Chevron oil pipeline spill. He gained great experience working with city, state, federal, environmental groups, citizens and Chevron company representatives to find workable and ongoing solutions to a catastrophic urban environmental incident and public relations challenge. Mr. Martin has served on several boards for the State of Utah such as the Quality Growth Commission (Chair), Agricultural substantiality task force and several legislative sub-committees.



SPEAKERS AND PRESENTERS

Michael McGough

Marketing Director, NuScale

In his role at NuScale, Mike McGough oversees all sales, marketing, business development, proposal management, customer relationship management, customer advisory board, collateral materials, tradeshow, website, social media and branding.

McGough joined NuScale from UniStar Nuclear where he was Senior Vice President, Commercial Operations, with responsibilities for sales, marketing, business development, communications, commercial processes and advocacy.

McGough is a 33-year veteran of the commercial nuclear industry, working as a vendor for companies supporting nuclear plants worldwide. He has been involved in new plants at Westinghouse and UniStar, dry fuel storage as senior vice president of marketing for NAC International, low level waste management and decommissioning at Duratek and Energy Solutions. He was senior vice president then President of PCI Energy Services where he spent 11 years working mechanical projects such as steam generator replacements and decommissionings.

McGough holds a Bachelor of Science in Physical Metallurgy from Washington State University, and MBA from the Katz School of Business at the University of Pittsburgh. He is also a graduate of the Kellogg Management Institute at Northwestern University.



Michael J. McKee

Commissioner, Uintah County

- Currently serving 10th year as Uintah County Commissioner
- 2010 Utah Association of Counties Elected Official of the Year
- 2010 Utah County Commissioner of the Year
- National Association of Public Lands Committee
- Utah State University Uintah Basin Regional Campus Director's Award 2006

Currently serving on the following State boards:

- Community Impact Board
- Constitutional Defense Council
- Governor's Balanced Resource Council



Leader on Public Land's and Energy issues. Has given testimony before Congressional committees on several occasions.

Proponent of responsible energy development.

Actively involved in Uintah Basin Air Quality Study, Sage Grouse management, Updated EIS for Oil Shale and Oil Sands, Resource Management Plans etc.

John McLennan

Associate Professor, Department of Chemical Engineering, University of Utah

Since October 2009, John McLennan has been an Associate Professor in the Department of Chemical Engineering at the University of Utah. He has been a Senior Research Scientist at the Energy & Geoscience Institute and a Research Professor in the Department of Civil Engineering at the University of Utah, since January 2008. He has a Ph.D. in Civil Engineering from the University of Toronto, in 1980. He has thirty years of experience with petroleum service and technology companies. He worked nine years for Dowell Schlumberger in their Denver, Tulsa and Houston facilities. Later, with TerraTek in Salt Lake City, Advantek International, in Houston, and ASRC Energy Services in Anchorage. He has worked on projects concerned with hydrocarbon recovery in a variety of reservoir environments, in domestic and international settings.

Rachel McMahan

Director of Government Affairs, First Solar

Rachel McMahan is Director of Government Affairs for First Solar, a fully vertically integrated solar thin film PV company, with nearly 3,000 megawatts of utility-scale projects in operation, development and construction in the United States. She began her career in environmental and renewable energy policy fifteen years ago. She was an energy and legislative analyst with a California-based advocacy group, the Center for Energy Efficiency and Renewable Technologies, and represented environmental and clean energy interests before California state agencies and



legislature for ten years. For two years, she represented solar parabolic trough development company Solar Millennium on project-related matters to agencies and legislators in California and Washington, DC. For one year, she directed state and federal government affairs for a leading designer and manufacturer of concentrating PV (CPV) systems. She is currently responsible for state level legislative and regulatory representation for First Solar throughout the United States.

Geoffrey McNaughton

Forestry Programs Administrator, Utah Department of Natural Resources

Geoffrey McNaughton is the Forestry Programs Administrator for the Utah Department of Natural Resources, overseeing the State's cooperative forestry programs. Prior to joining the Utah DNR, he was the State of Washington's Forests & Fish Adaptive Management Administrator, managing a research and monitoring program designed to test the effectiveness of Washington's new Forest Practices Rules. Geoffrey holds a B.S. in Forest Science/Botany from the University of Montana, a M.S. in Botany from the University of Wyoming, and a Ph.D. in Forest Resources (Ecosystem Analysis) from the University of Washington.

Brendon Merkley

COO, Vivint Solar

Brendon Merkley is the COO of Vivint Solar. Before joining Vivint Solar, Brendon worked at Goldman Sachs providing market and industry analysis and served in the White House as a director in the Office of Presidential Speechwriting. He also worked in the U.S. Department of Agriculture, creating a department-wide communications plan and leading the development of the new USDA biotechnology website. He holds a bachelor's degree in political science from Brigham Young University and an MBA from Stanford.

SPEAKERS AND PRESENTERS

Brad Nickell

Director of Transmission Planning, Western Electricity Coordinating Council

Bradley Nickell currently serves as the Director of Transmission Planning at the Western Electricity Coordinating Council (WECC). In this capacity, he leads the Regional Transmission Expansion Planning program, which serves to understand the future transmission needs of the Western Interconnection. In addition, Mr. Nickell leads WECC's planning policy support collaborations with state and provincial organizations in the West.

Prior to joining WECC, Mr. Nickell served as the Technology Manager for Wind Energy Systems Integration at the U.S. Department of Energy. His 15 years of electric utility experience includes generator control design, system operations, facility planning and regulatory compliance training.

Mr. Nickell holds a BSEE in electric power systems from Iowa State University and an MBA in finance from the University of Colorado.



Paul Olsen

Public Relations Manager, Manufacturing Extension Partnership

Paul Olsen has worked in business development and public relations for MEP for the past 7 years. Prior to this he was operations manager for Parvus Corporation, an embedded controls manufacturer in Salt Lake. For the past 2 years he has focused on sustainability in business. He graduated from the University of Utah with a degree in Political Science. He enjoys photography and golf. He and his wife Kathy live in Sandy and are the parents of 4 children and have 8 grandchildren.



Juan Palma

Director, Utah BLM

Juan Palma is the Utah State Director for the Bureau of Land Management (BLM). He provides leadership for the 23 million acres of BLM in Utah. Prior to his appointment to Utah he was the State Director for the BLM's Eastern States. Under his guidance and leadership, the BLM's mission and vision



were carried out in 31 states east of and bordering the Mississippi River. Juan joined the BLM-Eastern States in February, 2008, bringing with him more than 20 years of Federal public service. Juan began his federal career with the U.S. Forest Service in 1984, where over fifteen subsequent years he worked in a variety of positions including Budget Officer, Administrative Officer, District Ranger, and Deputy Forest Supervisor. From 1997 – 2000, he served as Forest Supervisor on the Lake Tahoe Basin Management Unit, followed by a period as Executive Director of the Tahoe Regional Planning Agency, a bi-state compact agency overseeing regional land-use issues within the Lake Tahoe basin. Since joining the BLM, Juan has served as District Manager in Vale, Oregon, and Field Office Manager in Las Vegas, Nevada.

While raised in Toppenish, Washington, Juan's educational endeavors took him to Brigham Young University and Oregon State University, where he ultimately graduated with a degree in Business Management. Juan also studied at the University of Nevada at Reno, earning his Master's degree in Environmental Sciences. Now with Utah BLM, Juan looks forward to expanding his community-oriented approach to establishing and enhancing partnerships on public lands. As a married father of three, he wants to make memorable experiences for families and individuals alike on the lands the BLM manages in Utah. When not at work on those initiatives, Juan can be found tending his garden, spending time with family, or hitting the slopes as an avid snowboarder.

Dr. Kemal Pasamehmetoglu

Associate Laboratory Director for the Nuclear Science & Technology Directorate, INL

Dr. Kemal Pasamehmetoglu holds a doctorate in mechanical engineering from the University of Central Florida and has more than 25 years of research engineering experience within the national laboratory system. He has been with INL since 2004, most recently serving as the Associate Laboratory Director for the Nuclear Science & Technology Directorate. Prior to his time at INL, he held senior technical leadership positions at Los Alamos National Laboratory. Kemal also served as the national technical director (NTD) for Fuel Cycle Research and Development in the Advanced Fuel Cycle Initiative. During his tenure as a division director and as a NTD he has transformed nuclear fuels capabilities in the nation and at INL into world-leading endeavors.



David Post

Vice President of Business Development, Enel Green Power North America

David is responsible for all development activities in the US and Canada. His office is in Andover Ma, with regional offices in Washington, DC; Canada; California; and Nevada.

Enel Green Power North America, Inc. (EGP-NA), part of Enel Green Power, is a leading owner and operator of renewable energy plants in North America with projects operating and under development in 20 U.S. States and three Canadian Provinces. EGP-NA owns and operates over 80 projects with an installed capacity of over 1,000 MW powered by renewable hydropower, wind, geothermal and biomass energy.

Enel Green Power operates in 23 countries on four continents with over 6,000 MW's of production capacity.

David graduated with an MBA from Columbia Business School.



Anthony L. Rampton

Attorney, PLPCO

Anthony L. Rampton is an accomplished attorney with 35 years of extensive experience in civil litigation, trial and appellate practice. His substantial accomplishments also include a wide spectrum of expertise in government relations at federal, state and local levels, administrative and regulatory law, eminent domain, natural resources and water law, as well as public lands and utilities. He has years of experience in energy, especially oil shale development, as well as environmental regulation and permitting, and endangered species assessment.

Tony has been very active in civic and community affairs, having served as chairman of the Utah Personnel Review Board, the Utah Arts Council, the Western States Art Federation, the Utah Common Cause, the Salt Palace, Fine Arts Advisory Board, and Red Butte Garden. He also was on the board of the University Hospital Foundation, and currently serves on the board of the Henry's Fork Foundation.



Mark Raymond

*Commissioner,
Uintah County*

Mark Raymond is currently serving his second term as a County Commissioner in Uintah County. He is very passionate about multiple land use issues and is very aggressive in protecting those rights.



He serves as the President of the Utah Association of County's Public Lands Committee. He is a board member of the Utah Dept. of Transportation Joint Highways and serves on the Technical Non-Urban sub-committee. He is also an active member of the Institute for Clean and Secure Energy Board at the University of Utah. Commissioner Raymond is also a board member for the Uintah County Transportation SSD and the Recreation SSD.

Before life as a Commissioner Mark was the Associate Director for the Eastern Region with USTAR. Worked many years for Deseret Generation and Transmission, Halliburton, and Atlas Minerals. Mark proudly graduated from the University of Utah with two Bachelors of Science Degrees. He also lived for 2 years on the remote islands of Samoa in the South Pacific.

He is married to MaryAnn Raymond, the father of four grown children and Grandfather to seven and a half grandchildren.

James Rekoske

*VP and General Manager
Honeywell, UOP*

Jim Rekoske is Vice President and General Manager of the Renewable Energy and Chemicals business unit at Honeywell's UOP, a leading developer and licensor of technologies for the production of high-quality green fuels. Prior to this role, Jim served as the Senior Manager of Catalysis Research and Development for UOP where he provided the strategic direction and management for programs critical to the commercialization of new refining, petrochemical and renewable energy technologies. In his 14 years with UOP, Jim has also served as the Technical Director for Petrochemical Catalysts and the Director of Technology for Universal Pharma Technologies, a former UOP joint venture focused on technology and services in pharmaceutical chemistry. Jim is the inventor or co-inventor on 20 U.S. patents, with another 10 patent applications pending, and is the author of more than 20 peer-reviewed scientific articles. He was recently awarded the 2010 Herman Pines Award from the Chicago Catalysis Club in recognition of his numerous technical

breakthroughs in catalysis science. He earned bachelor's and master's degrees in chemical engineering at the University of Wisconsin and a doctorate in chemical engineering from the University of Delaware. He also earned an MBA degree from the University of Chicago.

Luigi Resta

CEO, Scatec Solar North America

Scatec Solar North America, INC. ("SSNA"), headquartered in California, is in the business of developing, building, owning and transferring turnkey solar power solutions, for on-grid and off-grid applications. SSNA, formed in January 2009, focuses on utility scale projects in the range of 5MW-200MW. Since its inception, SSNA has developed and sold over 55MW of utility scale projects in California and Hawaii. To date, these projects have each been delivered on-time with no significant delays. SSNA is 100% owned by Scatec Solar Global and is quickly becoming one of the most significant subsidiaries. Mr. Resta has worked diligently to drive renewable energy policy and incentives in several states. He has experience in high-level negotiations around transmission, interconnection, PPAs, federal and state permitting, historical review and structured finance. During his tenure at SSNA, Mr. Resta has executed over \$1.5B (300 MW) of project development in various stages. Before joining SSNA, Mr. Resta was a founding member of AMG Energy, a renewable energy company. Mr. Resta has been a property developer, certified electrician and held posts with several progressive groups in the environmental arena.

Karl K. Rink

*VP of Engineering and
Development, Infinia*

Karl Rink received his Bachelor of Science in Aerospace Engineering and Mechanics from the University of Minnesota in 1983 and his Master of Science in Engineering from Purdue University in 1986. He was subsequently employed by Solar Turbines Incorporated of San Diego, California where he was responsible for the design, development, and testing of gas turbine combustion systems and components. Karl earned his Ph.D. in Mechanical Engineering from the University of Utah in 1994, where he demonstrated the thermal remediation of hazardous wastes using circulating fluidized bed technology. Subsequently, Dr. Rink was



employed by Autoliv in Ogden, Utah where he was responsible for the development of advanced airbag inflation technologies. His work in airbag technology has led to over 50 U.S. patents, many of which entered production and one of which received the prestigious and internationally-acclaimed 2000 PACE award recognizing outstanding innovation in automotive technology. In 2001 Dr. Rink accepted a position as Professor of Mechanical Engineering at the University of Idaho, located in Moscow, Idaho. At the university, Dr. Rink's research focused on the performance and reliability of components such as bridge-wire initiators, detonators, pyrotechnic gas generators and their associated microelectronic components. Of particular emphasis was the application of the radioactive isotope of krypton (85Kr) to understand the hermetic integrity of microelectronic packages and energetic components, as well as providing a means to detect flaws, porosity, and other defects in metal alloys and their associated weldments. Dr. Rink was named an Outstanding Mechanical Engineer by Purdue University in 2000 and an Associate Fellow of AIAA in 2007.

Ruslan Salikhov

Deputy Chief Engineer Designer, ATOMENERGOPROEKT, Russia

Ruslan Salikhov has 9 years experience at the Oil Shale Mining Company LENINGRAD-SLANETS as position of Deputy General Director on development, and since 2006 works as deputy chief engineer designer in ATOMENERGOPROEKT. His responsibilities include research, design and development of thermal power plants, nuclear power plants and oil shale processing plants all over the Worlds. The institute has been involved in the oil shale industry since 1950s and for today, a significant part of Estonian oil shale processing industry is based on ATOMENERGOPROEKT's designs including oil shale firing power plants (Ahtme 45 MW, Estonian 1700 MW, and Baltic 1800 MW). All installations in Estonia based on the Galoter method were built by ATOMENERGOPROEKT's designs: installation UTT-200 in Kiviylil since the 1950s, installation UTT-500 from 1963 till 1980, two installations UTT-3000 in Narva Oil Factory operating now as Enefit-140, and UTT-3000 on the site of Viru Keemia Group in Kohtla Jarve commissioned in 2009 and operating as Petroter.

SPEAKERS AND PRESENTERS

Daniel R. Simon

Partner, Ballard Spahr LLP

Daniel R. Simon is a partner in the Business and Finance Department of Ballard Spahr and a member of the Energy and Project Finance Group and the Climate Change and Sustainability Initiative. Mr. Simon's practice focuses on a wide range of energy regulatory issues, primarily in the electricity sector. He represents regional transmission organizations (RTOs) and independent system operators (ISOs), vertically integrated electric utilities, independent power producers (including qualifying facilities), renewable energy project developers (particularly biomass and solar projects), hydroelectric project licensees, and large commercial and industrial electricity consumers. Mr. Simon also represents oil pipeline shippers on regulatory matters.



Elizabeth Schulte

Associate, Parsons Behle & Latimer, LLP

Schulte is a member of Parsons Behle & Latimer's Environmental and Natural Resources practice group where she concentrates on NEPA, mining, water, contaminated property, and environmental litigation. She formerly served as the chair for the Environmental Committee of the Utah State Bar's Energy, Natural Resources and Environmental Law Section. She is now the treasurer for the section.

In law school Ms. Schulte was a Dewsnup Fellow, received a Stegner Certificate in Environmental Law, and was editor-in-chief of the Journal of Land Resources and Environmental Law. She has also earned a master's degree in natural resource sociology from Utah State University, where she received an Environmental and Natural Resources Policy Certificate. Prior to attending law school, Ms. Schulte worked for the Utah Chapter of The Nature Conservancy.



Amanda Smith

Executive Director, Utah Department of Environmental Quality

Amanda has been reappointed to serve as the Executive Director of the Utah Department of Environmental Quality (DEQ), serving under Governor Gary Herbert. She also served concurrently as the Energy Advisor to the Governor from January, 2011, to May, 2012.



© photo by Trenton Davis

Prior to this, Amanda was the Legislative Director and Rural Advisor to Governor Huntsman. In this capacity she worked on a broad array of natural resource, energy, water and economic development issues. Additionally, she worked closely with the State Legislature on Governor Huntsman's priority issues. Before joining Governor Huntsman's office, Amanda was the Government Relations Director for The Nature Conservancy of Utah.

Amanda Smith received her undergraduate degree in Political Science from the University of Utah and her Juris doctorate degree from Gonzaga University School of Law. She is licensed by the Utah State Bar. Ms. Smith has worked professionally on conservation issues regarding public lands, preservation of private lands, energy policy, water resources and community planning. She has served as a member of the Bureau of Land Management Resource Advisory Council and has also served as a member of the State Institutional Trust Lands Board of Trustees.

Amanda is married to Evan Dillon and they have two children; Miles, age 16, and Madeline, age 8. She enjoys running with her dog, skiing, biking and cooking.

Christopher Smith

Deputy Assistant Secretary for Oil & Natural Gas, U.S. Department of Energy

Christopher Smith is Deputy Assistant Secretary for Oil and Natural Gas in the Office of Fossil Energy of the U.S. Department of Energy. In this position, Smith is responsible for administering domestic and international oil and gas programs, including research and development, policy analysis, and LNG import and export licensing. Smith served as the Designated Federal Official for the National Commission on the BP Deepwater Horizon Oil Spill and Offshore Drilling, established by President Obama to investigate the root causes of the Gulf oil spill. He currently chairs the steering team that will lead efforts to coordinate research on shale gas and tight oil resources conducted by the Department of Energy, the Department of the Interior, and the Environmental Protection Agency.



Dr. Philip J. Smith

Director, Institute for Clean and Secure Energy, University of Utah

Professor Philip J. Smith is the director of the Institute for Clean and Secure Energy (ICSE), a multidisciplinary research program for understanding the techni-



cal, policy and environmental issues for clean fossil fuel energy production and utilization. Dr. Smith is also a professor of Chemical Engineering at the University of Utah. Dr. Smith is a native Albertan who has spent the last two decades researching, analyzing and working with fossil fuels in Utah. Oil sands and their potential development have been studied extensively by Dr. Smith and ICSE. For this reason, Dr. Smith is one of the most quoted and referenced experts on oil sands in the Utah Academic community.

Ron Snedic

Vice President, Corporate Development Gas Technology Institute

As the Vice President of Corporate Development, Ronald N. Snedic leads the effort to expand GTI's customer base and increase revenues from technology-based product and service offerings. The Corporate Development team is committed to finding and implementing solutions that create exceptional value for GTI customers. Snedic's duties include management of the sales, marketing, communications, commercialization, and proposal center activities for GTI. Snedic also oversees GTI's human resources department, Washington DC office, and a wide range of education and training programs on technical and business topics.

Snedic serves as President of Operations Technology Development, NFP and Utilization Technology Development, NFP. Both companies focus on the development of new technology for the natural gas industry.

Snedic joined GTI as the Regional Manager of Customer Relations for the Southern Gas Association in April 1997. Since that time, he has held positions of increasing responsibilities for sales, customer relations and the management of collaborative R&D programs at GTI.

Prior to GTI Ron held various positions at Nicor Gas Distribution and UtiliCorp United. Snedic earned a bachelor of science degree in marketing and a master's degree in business administration from Northern Illinois University. He is a member of the LNG17 Steering Committee and Society of Gas Lighting. He also serves on the Board of Directors of Pipeline Research Council International (PRCI) and GRI International.



SPEAKERS AND PRESENTERS

Jeff Sokol

Energy Utilities Maintenance Coordination, Salt Lake City Corporation

Jeff Sokol is a LEED AP specializing in Existing Building Operations and Maintenance and is passionate about energy efficiency and historic buildings. He holds a BS in Facilities Management and is working on his Master of Public Administration. Jeff enjoys spending time with his wife and three daughters.



Dr. Jennifer Spinti

Assistant Director, Institute for Clean and Secure Energy, University of Utah

Jennifer Spinti is the Assistant Director of the Clean and Secure Energy from Domestic Oil Shale and Oil Sands Resources program at the Institute for Clean and Secure Energy, The University of Utah. Since 2006, this program has conducted engineering, economic, scientific, and legal research related to oil shale and oil sands development in Utah. Dr. Spinti and a team of researchers have recently completed an economic analysis of four oil shale and oil sands development scenarios in the Uinta Basin. Dr. Spinti received a B.S. in Chemistry from Brigham Young University and a Ph.D. in Chemical Engineering from The University of Utah. She has performed both simulations and experiments with fossil-fuel-fired energy systems, specifically looking at issues related to air quality, fuel efficiency, and carbon management.

Melisa Stark

Workforce Development Grants Specialist, Department of Workforce Services

Melisa Stark is a Workforce Development Grants Specialist at the Utah Department of Workforce Services. She co-manages the State Energy Sector Partnership grant and the National Emergency Grant for ATK Launch Systems. She participates in other energy related economic and workforce development initiatives. She also supports initiatives to encourage women to work in non-traditional fields.



Dr. Jeffrey Steiner

National Program Leader for Biomass Production Systems Office of National Programs Agricultural Research Service, USDA

Dr. Jeffrey Steiner is the USDA-Agricultural Research Service National Program Leader for Biomass Production Systems and agency lead of the USDA Regional Biomass Research Centers. His responsibilities include strategic planning and coordination of research for sustainable production of dedicated energy crops and their genetic improvement. He also is involved in the development of partnerships with the Department of Energy, Federal Aviation Administration, and Department of Navy, and with commercial technology providers and other businesses interested in advanced bio-fuels. Previous to this assignment, Dr. Steiner was Senior Advisor for Bioenergy in the USDA Office of the Chief Scientist, and was the principal co-author of the President's Interagency Working Group Growing America's Fuels report. He received his Ph.D. from Oregon State University, and is a fellow of the American Society of Agronomy and Crop Science Society of America.



Todd Stevens

Managing Director, RenewableTech Ventures

Todd Stevens, based in Salt Lake City, Utah, is a Co-Founder and Managing Director of RenewableTech Ventures. He previously was the Founder and Managing Director of EPIC Ventures (formerly known as Wasatch Venture Fund) and manager of the Zions Bank Venture Capital Department (a publicly traded bank headquartered in Utah). Mr. Stevens raised and managed six venture funds, investing in over 100 companies and serving on over a dozen board of directors including Netcentives, i-Central, O'Curran, Vertical Technologies, My-Family/The Generations Network, Cirque and ZARS Pharma. He also served as a Director of MorAmerica Capital Corporation (NASDAQ: MACC) for five years.

Prior to his 16-year venture career, Todd worked as a development and finance executive for a publicly traded independent power company and developed and financed renewable energy power projects with capacity of over 300 MW and financing lines of over \$400 million. He also participated in clean tech and energy conservation projects as a venture capital, development and finance executive. Todd also worked in real estate development, planning and control for a Chicago developer.



Todd's current non-profit activities include the Executive Committee of Utah Technology Council (UTC), Co-Chair of the Clean Tech Initiative for UTC, Academy for Creating Enterprise Advisory Board, University of Utah Technology Commercialization Advisory Board, and University of Utah Lassonde Center Advisory Board.

Todd holds a Bachelor of Science degree, cum laude, in Accounting and Management from the University of Utah and a Master of Business Administration with honors, from the Harvard Graduate School of Business.

Michele Straube

Professor, University of Utah

Michele Straube was a practicing lawyer for more than 15 years, representing private and public sector clients. She has extensive experience with administrative agencies in their regulatory and enforcement functions. For the past 15 years, she has focused exclusively on alternative dispute resolution, including mediation, facilitation, training, and collaborative problem-solving. Professor Straube maintained a private mediation practice in which she designed and facilitated consensus-building processes and offers conflict management training. In addition to being on several national rosters for environmental third-party neutrals, she conducted mediations for the U.S. Postal Service REDRESS program, and has been a long-term-care ombudsman for Salt Lake County.

From January 2008 to August, 2010, Professor Straube directed Salt Lake Solutions, SLC Mayor Ralph Becker's collaborative government initiative. Salt Lake Solutions projects model collaboration by engaging all segments of the community to address difficult public problems.

Professor Straube designed the Environmental Dispute Resolution class with Professor James Holbrook, and will be updating the course for the Spring 2013 Semester. In spring 2007, she designed and taught a pilot course (then entitled Comparative Dispute Resolution) to introduce students to the broad range of conflict prevention, management and resolution options available in addition to litigation. The revised and retitled Conflict Management course was accepted into the permanent curriculum in spring 2009. She also teaches Conflict Management and Public Policy Collaboration as an Adjunct for the Masters of Public Administration Program.



SPEAKERS AND PRESENTERS

Mike Taylor

Director of Research, Solar Electric Power Association

Mike Taylor is the Director of Research at the Solar Electric Power Association (SEPA) and leads the Research department's initiatives to provide industry-leading analysis on electric utilities and solar market development for SEPA members, clients, and industry stakeholders. Prior to joining SEPA in 2006, Mike spent seven years with the Minnesota Department of Commerce State Energy Office working on renewable energy policy and program development. Mike holds a Master's in Science, Technology, and Environmental Policy from the University of Minnesota and a Bachelor's in Environmental Biology from St. Mary's University of Minnesota.



Christopher Thomas

Executive Director, HEAL Utah

Christopher Thomas joined the HEAL Utah staff in September, 2006, as Policy Director and held that role for four years before becoming Executive Director in December, 2010. In that time, he has made numerous presentations to the Utah Radiation Control Board and Utah Legislative Committees. He has been invited to participate in national meetings held by the Nuclear Regulatory Commission. In the Fall of 2010, he was invited to participate on a subcommittee of Utah Governor Gary Herbert's Energy Task Force. Christopher graduated Phi Beta Kappa from Grinnell College in Iowa with degrees in English and Biology and received the English department's top honor, the Beulah Bennett-Loring Prize for Excellence in English. He is also a computer and information systems consultant.



Aaron Tilton

President & CEO, Blue Castle Holdings

Mr. Tilton is President and CEO of Blue Castle Holdings. A cofounder of BCH, Mr. Tilton has overseen the acquisition and development of assets and guided political strategies for the company.

Prior to BCH, Aaron developed and negotiated equity positions and power purchase agreements with municipal and investor owned utilities throughout the Southwest. Mr. Tilton led these activities for two new coal fired projects in the region.



In parallel with these responsibilities, Mr. Tilton also advised a venture capital firm on state regulatory matters, particularly in the fields of pharmaceuticals and healthcare. In this role, Aaron called upon broad experience in the fields of pharmacy automation software development and internet communications.

Mr. Tilton is a former Utah State Representative, having originally been appointed to the seat by Governor Walker when it was prematurely vacated. He was formally elected to the position in 2004, and again re-elected in 2006.

Mr. Tilton served as Vice Chair of the Board for Americans for American Energy.

In this role, Aaron Tilton has been active nationwide in advocating AAE positions on important energy policy matters. AAE supports the development and growth of all indigenous U.S. energy resources.

Cameron Todd

CEO, U.S. Oil Sands

Cameron Todd has been CEO of US Oil Sands since April 2011. Previously, Mr. Todd worked as Senior VP, Operations, Refining and Marketing at Connacher Oil and Gas limited, a TSX-listed independent oil sands development and production company. Mr. Todd has worked in Canada, Argentina, and Texas for various companies (Chauvco, Pioneer Natural and Amoco Canada Petroleum). He has over 30 years' experience in all facets of the domestic and international oil and gas industry, is the author of a number of papers, and a member of various professional societies. Mr. Todd graduated from the University of Calgary with a B. Sc. in Mechanical Engineering.



Senator

Kevin T. Van Tassell

Senate District 26

Senator Kevin Van Tassell represents Utah's 26th District including Daggett, Duchesne, Summit, Uintah and Wasatch Counties. Senator Van Tassell began with the Utah State Legislature in November 2006 and is an awarded Banker with a long and distinguished career at Zion's Bank. Senator Van Tassell has long played an important role in Utah's Energy Economy, traveling across the globe to identify and research important energy companies for Utah. Senator Van Tassell attended Brigham Young University and graduated from the American Banker's Commercial Lending School.



A. Richard Walje

President & CEO, Rocky Mountain Power, PacifiCorp

A. Richard Walje is president and chief executive officer of Rocky Mountain Power at PacifiCorp. He was appointed to this position in March 2006. Walje has executive management responsibility for the company's strategy, operations, community relations, regulatory affairs and customer service in Utah, Idaho and Wyoming.

Walje has worked in the electric utility industry since 1972, starting as a journeyman lineman. As an electrical engineer, he worked for General Electric's power engineering business and focused on high-voltage equipment applications. During that time he was a member of IEEE's Power Engineering Society. Walje joined Utah Power & Light in 1984 as a substation design and applications engineer.

With PacifiCorp, he has held senior management positions in transmission and distribution network operations, community relations, customer services and information technology. In 2000, Walje was named ScottishPower's chief information officer.

Walje currently serves on the Wyoming Business Council Board of Directors, the University of Utah's Business School National Advisory Committee, the University of Wyoming Art Museum Advisory Board, the Utah Sports Commission Board of Directors, and is Chairman of the Economic Development Corporation of Utah. He is Chairman of the PacifiCorp/Rocky Mountain Power Foundation Board of Directors.

Walje received a Bachelor of Science degree in electrical engineering in 1984 and a Masters of Business Administration degree in 1991, both from the University of Utah. He is a member of the Tau Beta Pi and Eta Kappa Nu honor societies and was recognized as an outstanding alumnus of the University of Utah's electrical and computer engineering school in 2008.



Alan Walker

Director of Technology Outreach, USTAR



Al Walker is the Director of Technology Outreach for Utah Science, Technology and Research (USTAR) with the Energy & Geosciences Institute (EGI) at the University of Utah. He is responsible for commercial development of USTAR energy initiatives in traditional and renewable energy technologies at the U of U and USU. Al grew up in the Catskill Mountains, has a BS from West Point in mechanical/weapon systems engineering and an MBA from Rensselaer Polytechnic Institute in production management. After ten years in the Army, he worked for General Electric, Amoco, and Questar in energy production engineering and management prior to USTAR. Al is married to Victoria (Vickey) from Orem, Utah. Vickey is a commercial agent for CBRE specializing in investment grade properties. Al and Vickey live in North Salt Lake and they have two children Angela and Alec and two grandsons.

Carol Walters

Energy Activist



Carol Walters is a housewife, mother and grandmother who is dedicated to community service. She has been actively engaged in church service, started community theaters, worked with the PTA on education reform and the creation of a character education program for Provo City, and for the past ten years has been actively involved in promoting energy conservation, including overseeing the design and construction of a nearly net-zero model home in Provo, Utah.

Larry Walters

Professor, BYU



Larry Walters is the Stewart Grow Professor of Public Management in the Romney Institute at Brigham Young University. He teaches courses in managerial economics, public budgeting and evaluation. His co-authored book "Wicked Environmental Problems: Managing Uncertainty and Conflict" was recently published by Island Press. He has also published extensively on state and local tax policy.

Roger Weir

Energy Manager, ATK

Bacchus, Energy Manager for ATK Aerospace Group – Utah Operations, and Corporate Energy Coordinator for ATK - Alliant Technologies. On the board of the Industrial Gas Resource Corporation and on the Executive Board of the Utah Association of Energy Users, currently as Treasurer. Have been engaged with energy and energy issues for more than 35 years. Recent projects include the Integrated, Automated Distributed Generation Technologies Demonstration Project funded in part by the DOE/NETL (wind, hydro, compressed air and waste heat generation, with storage for demand management). Other projects include compressed air systems efficiency improvements, lighting retrofits, boiler and steam systems efficiency improvements, HVAC systems efficiency improvements, etc. Established the ATK Corporate Energy Team in 2003; as the team leader, help to direct the energy plans and programs at 24 ATK locations across the country.

Alan Westenskow

*Vice President, Zions Bank
Public Finance*



Alan Westenskow is a Vice President at Zions Bank Public Finance, where he has assisted cities, counties, school districts, states and other local governments throughout the region borrow money through the issuance of municipal bonds for the past 13 years.

Alan has assisted several local governments finance energy efficiency, renewable energy and traditional power generation projects, including the Salt Palace Convention Center roof top solar project. Alan serves on the board of directors for Utah Clean Energy, is a member of the Utah Economic Council and is the past president of the Wasatch Front Economic Forum.

Alan attended Brigham Young University and received his MBA with a major in finance from the Wharton School of Business at the University of Pennsylvania.

Carl Zichella

*Director of Western Transmission,
Land & Wildlife Program*



Carl Zichella is the director for western transmission for NRDC. He is the organization's lead staff for western U.S. renewable energy transmission siting and serves on a nationwide team working on renewable energy development issues. In this role he works with stakeholders from environmental organizations, renewable energy development and transmission industries, local, state and national governments, regulatory agencies and the public to find renewable energy transmission solutions that accelerate renewable energy development while respecting wildlife and land conservation efforts.

Before joining NRDC he was the director for western U.S. renewable projects for the Sierra Club. He served in leadership capacities on the Sierra Club staff for 23 years.