

ISPE 2010 Annual Meeting

"Creating the Next 100 Years With Engineering"

Thursday, June 10

7:30 AM

Convention Center Lobby

Registration

8:00 to 8:30 AM

Cascade Room

Welcome Breakfast

Welcome/ Introduction –

Lynn Olson, ISPE State President

David Waite, ISPE SW Chapter President

Bishop Kelly High School Junior Engineering Technical Society (JETS) Team

Student Speakers:

Ms. Kate Franklin

Mr. Dominic Chumich

Mr. Nick Wendt

Advisors:

Dr. Guy Hudson

Dr. Larry Neznanski

Presenting the Portable Assistive Writing Device (P.A.W.D.) 2010 Overall Winner of National Engineering Design Challenge

8:30 to 9:50 AM

Cascade Room

"Bringing New Products To Light" (1.5 PDH)

Introduction – Joe Canning, ISPE Secretary Treasurer

Rob Bousfield - City of Boise

Clay Young – Co-founder and CEO of Inovus Solar

Inovus Solar has and is developing solar powered LED lighting technology. Inovus is located in Boise and has worked with the City of Boise on a pilot project in 2009 in Hyde Park in the north end of Boise to replace conventional street lights with Inovus technology lighting. The city has seen favorable results in both light output and energy savings. The presentation will also discuss creating new technology and how to bring it to the market place.

10:00 to 10:50 AM

Cascade Room

"Solar Road Panels" (1 PDH)

Introduction – Jim Baker, PE

Matt Hemphill

North Idaho electrical engineer Scott Brusaw of Sagle says every mile of four-lane highway built with his new Solar Roadways panels would produce enough electricity to power 500 homes. If he rebuilt the entire 47,000-mile interstate system, he figures he could meet the nation's power demands and more. Matt is working with Scott on a USDOT funded grant to develop this innovative project and will present a discussion of the concept.

11:00 to 11:50 AM

Cascade Room

"Patent Fundamentals for Engineers" (1 PDH)

Introduction – Joe Canning, ISPE Secretary Treasurer

Timothy E. Murphy –

Zarian Midgley & Johnson, PLLC

Mr. Murphy will discuss the origins and nature of the patent right in the United States as well as the requirements for patentability, such as utility, novelty, and nonobviousness. I will also address common misconceptions regarding the patent system that I have encountered working with engineers and inventors. If time permits, we will also discuss hot topics in patent law, including the availability of injunctions, infringement damages, and non-practicing entities (pejoratively known as 'Patent Trolls').

12:00 to 1:30 PM

Convention Center

Luncheon

Introduction - Lynn Olson, ISPE State President

David Waite, ISPE SW Chapter President

"Innovation in Idaho from the State's

Perspective"

Lieutenant Governor Brad Little

2:00 to 2:50 PM

Cascade Room

"Engineering Education: What if we prepared physicians this way?" (1 PDH)

Introduction – Katey Levihn,

ISPE SW Chapter Secretary/Treasurer

John F. Gardner, Ph.D., P.E. –

Boise State University

We like to refer to engineering as a "profession", on par with the medical and legal professions yet the general public doesn't see us that way. The field of engineering remains one about which most people know little. As we face the daunting problems of the 21st century, society will increasingly look to engineers to provide solutions. Are we preparing the next generation of engineers to meet these challenges?

3:00 to 3:50 PM

Cascade Room

"Engineers Without Borders" (1 PDH)

Introduction – Jim Baker, PE

Barry Borges

Mr. Borges will discuss what EWB is all about and review a water supply project he recently completed in Oates, Mexico

4:00 to 4:50 PM

Cascade Room

"Dirty Water, Wastewater Reclamation, and the Next 100 Years of Integrated Water Planning" (1 PDH)

Introduction – Katey Levihn,

ISPE SW Chapter Secretary/Treasurer

Dave Clark – HDR Engineering

This presentation will include reflections on the progress made in sanitation and the protection of public health that has culminated in sophisticated wastewater treatment facilities capable of reclaimed water production for recycling. These technical developments are expected to continue in the future as competition and demand for water drives integrated water planning efforts to meet expanding supply requirements.

5:30 PM

Teton Room

ISPE Board Meeting

Friday, June 11

7:00 to 7:30 AM

Convention Center

Breakfast Served

7:30 to 8:50 AM

Convention Center

ISPE General Membership Meeting

9:00 to 9:50 AM

Cascade Room

"Smart Meters at Idaho Power (1 PDH)

Introduction – Lewis Venard,

ISPE SW Chapter President Elect

Mark Heintzelman - Idaho Power Project Manager for the Implementation of the Advanced Metering Infrastructure (AMI)

Mr. Heintzelman, Idaho Power Project Manager for the Implementation of the Advanced Metering Infrastructure (AMI), will discuss the engineering and technology behind Idaho Power's smart meters and provide an overview of the timeline for implementation of these improvements that are part of a nationwide effort to create an electrical "smart grid" to use energy more efficiently.

10:00 to 10:50 AM

Cascade Room

"Stocking the Engineer Pipeline – Development of Future Engineers Using NSPE Supported Programs" (1 PDH)

Introduction – Jay Hassell, ISPE President Elect

Leanne H. Panduren, PE, F.NSPE –

NSPE Treasurer

Learn about the various STEM outreach programs, activities and even legislation supported by NSPE and hear how these programs are successfully developing the future engineers of tomorrow. Participants will also learn how to take these programs and apply them to their local communities and current outreach efforts.

11:00 to 11:50 AM

Cascade Room

"I-84 Vista Interchange – A Present Case Study For the Future" (1 PDH)

Introduction – Chris Canfield,

ISPE SW Chapter Past President

Co-Presenters: Katey Levihn, PE, and

Jayme Counce, PE

This first SPUI (Single Point Urban Interchange) in Idaho was originally designed and is now in construction utilizing cutting edge fast track engineering and construction methods....but circumstances evolve. Katey and Jayme will highlight lessons learned during both design and construction, and discuss how these can potentially be applied for future interchange work. The Vista Interchange is "out the front door" of the conference site, and affords an opportunity for all attendees to take a stroll to view construction underway.

12:00 to 1:30 PM

Convention Center

Luncheon

Introduction - Lynn Olson, ISPE State President

David Waite, ISPE SW Chapter President

"The Role of Research in Economic Development"

Mark J. Rudin, PH.D –

Vice President for Research, Division of Research, Boise State University

2:00 to 2:50 PM

Cascade Room

"Future of Nuclear Engineering" (1 PDH)

*Introduction – Dustin Commons,
ISPE SW Chapter Director*

**Dr. Harold F. McFarlane -
Deputy Associate Laboratory Director
Idaho National Laboratory**

3:00 to 3:50 PM

Cascade Room

**"Update on Hot Button Issues from the Idaho Board of
Professional Engineers and Professional Land Surveyors" (1 PDH)**

Introduction - Lynn Olson, ISPE State President

**David K. Bennion, PE, Member
James H. Milligan, PhD, PE, Secretary
Gary L. Young, PE/LS, Vice-Chairman**

A discussion of current hot button issues effecting Engineers in both Idaho and other states including a Legislative update. This will be an opportunity for the professional engineering community to ask questions of the attending board members as well as an opportunity for the board members to gather input from the professional community

4:00 to 4:50 PM

Cascade Room

**"Update on Hot Button Issues from the Idaho Board of
Professional Engineers and Professional Land Surveyors" Cont'd (1 PDH)**

**David K. Bennion, PE, Member
James H. Milligan, PhD, PE, Secretary
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5:30 to 6:30 PM

Convention Center Lobby

Social Hour

**Musical Entertainment – String Trio
No-host Bar**

6:30 to 8:30 PM

Convention Center

**100th Anniversary ISPE Banquet
Master of Ceremonies –
Lynn Olson, ISPE State President
Invocation – Joe Canning**

Awards

2010 Young Engineer of the Year
2010 Idaho Excellence in Engineering Educator
2010 Idaho Excellence in Engineering Award

100TH Anniversary Celebration Show

Bill Johnson & Lynn Olson

Officer Inductions

Leanne H. Panduren, PE, F.NSPE –
NSPE Treasurer

NSPE Fellow Award

Leanne H. Panduren, PE, F.NSPE –
NSPE Treasurer

8:30 PM

MEETING ADJOURNED