

# **Idaho Society of Professional Engineers**

2016 ISPE Annual Meeting

#### May 12 – 13, 2016

*Boise State University*

*Student Union Building*

*1910 University Drive*

*Boise, ID 83725*

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**ISPE 2016 Annual Meeting**

**Wednesday, May 11**

**1:00 – 3:00 PM ISPE State Board Meeting**

**Micron Engineering Center (MEC)**

**Conference Room 301**

**Boise State University**

**Thursday, June 11**

**7:30 – 8:50 AM**  **Breakfast/ISPE Membership Meeting**

**Student Union Building –**

**Simplot AC Ballroom**

**9:00 – 9:50 AM Promoting Educational Reform through**

**Student Union Building - Institutional Transformation (1 PDH)**

**Simplot BD Ballroom Amy Moll - Dean of the College of Engineering, Boise State University**

As a university, our primary mission is to educate our students. One of the essential elements of this education is what happens in the classroom. It is the instructor who controls that environment. In order to create engaged learning for students engineering, all course work must be considered especially the foundational courses in science and math. At Boise State, with support from an NSF WIDER grant, we are in the midst of an institutional transformation to fundamentally change – across the entire STEM curriculum – what happens in the classroom. These changes are centered on evidence-based instructional practices proven to be effective in increasing student learning in STEM courses and retaining students in a STEM major.

**10:00 – 11:20 AM** **Construction Project Bonding (1.5 PDH)**

**Student Union Building - Mark Richardson - Principal**

**Simplot BD Ballroom & Vice President, Pinnacle Surety**

**Jennifer Grenrood - Business Development Director, Pinnacle Surety**

Learn the fundamentals of bonding and how contractors obtain surety credit. Get an inside look from a contractors perspective on the challenges faced with obtaining bonds as well as what you should expect from your surety broker.

**11:30 AM – 12:20 PM** **Construction Contracts from Another’s**

**Student Union Building - Perspective (1 PDH)**

**Simplot BD Ballroom Rick L. Stacey – Attorney,**

**McConnell Wagner Sykes+Stacey, PLLC**

Engineering and construction contracts can be among the most complex and demanding contracts that are put in place. Engineering Procurement and Construction (“EPC”) and Engineering Procurement and Construction Management (“EPCM”) contracts are particularly complex and require input from a variety of specialists, including construction lawyers, engineers, scientists, and project managers. Although these contracts were historically utilized only on international oil, gas, and mining development projects, they are becoming more and more prevalent in southern Idaho due to the development of engineering driven solar, fertilizer, and food manufacturing facilities. This presentation will provide a detailed explanation of the differences between these project delivery methods as well as the risks and benefits associated with EPC and EPCM contracting.

**12:30 – 1:50 PM** **Lunch**

**Student Union Building - The Importance of Licensure and the**

**Simplot AC Ballroom Engineering Profession (1 PDH)**

**Tom C. Roberts, P.E., FASEE, FNSPE -**

**Assistant Dean Emeritus, College of Engineering, Kansas State University**

**Vice President, National Society of Professional Engineers**

Tom has more than 40 years’ experience in planning, organizational development, and leadership training programs. He worked for Black & Veatch for 16 years (including 11 years in human resources) and was responsible for engineering recruitment & leadership development at Kansas State University for 21 years. He formed Upward Consulting in 1989 and has served as a continuous quality improvement consultant for a number of manufacturing & service companies and educational institutions. Tom has presented information on systems thinking, professional development and our changing society to a wide variety of national audiences.

Tom is past-president of the Kansas Society of Professional Engineers (KSPE) and served nationally as first vice president of the American Society for Engineering Education (ASEE). He is past chair of the KSPE Government Relations Committee. Tom currently serves on the National Society of Professional Engineers (NSPE) Executive Committee as Vice President and will be NSPE President in 2017-18. He also serves as Vice President Strategic Planning and Programs for the Boy Scouts of America Coronado Area Council.

Tom’s responsibilities at both Black & Veatch and K-State included promotion of engineering licensure to practicing professionals, teachers, students and parents while mentoring high school students to make effective career choices. He is married to Karen who serves as an industry educational consultant and professor in Human Ecology. They have two sons, Greg & Chad.

Tom’s remarks this afternoon focus on “The Importance of Licensure and the Engineering Profession.” His remarks will include key information related to K-12 STEM initiatives and the impact of engineering on the economy. He will offer suggestions for “Changing the Conversation” and improving the public’s understanding of the engineering profession.

**2:00 – 2:50 PM Eastern Snake Plain Aquifer Settlement**

**Student Union Building - and Recharge Program (1 PDH)**

**Simplot BD Ballroom Brian Patton, PE – Planning Bureau Chief,**

**Idaho Department of Water Resources**

The presentation will be an update on resolving Eastern Snake Plain Aquifer issues, including the Surface Water Coalition Settlement Agreement and the Managed Aquifer Recharge Program.

**3:00 – 3:50 PM Reconstruction of SR530 after the**

**Student Union Building - 2014 Oso Landslide (1 PDH)**

**Simplot BD Ballroom Braydan P. DuRee, PE -**

**Senior Geotechnical Engineer,**

**GeoEngineers Inc**

**WSDOT SR 530, Emergency Roadway Reconstruction Design Build**

Near Oso, Washington

At 10:37 am (PST) on March 22, 2014 a devastating landslide in western Washington killed 43 people, destroyed a neighborhood, cut off flow in the NF Stillaguamish River, and buried about 1 mile of SR530 under 20 feet of slide debris. This presentation will discuss the engineering challenges with reopening the highway as one of the fastest design-build deliveries in Washington state history, reopening the critical highway within six months to the day of the catastrophic landslide. The design included providing geotechnical solutions consisting of embankment and pavement reinforcement to allow roadway construction over the very soft landslide deposits, while still maintaining adequate embankment stability. The project also replaced six fish passage culvert crossings and installed horizontal drains to improve stability of a historic landslide deposit. The design-build team worked closely with the Washington State Department of Transportation and local stakeholders to rebuild the roadway and deliver much-needed resources and hope to the area.

**4:00 - 4:50 PM Decline of Engineering Judgement and**

**Student Union Building - How it May be Creating a Perceived Need**

**Simplot BD Ballroom for Specialized Licenses (1 PDH)**

**Gregory Brands P.E., F. NSPE – Idaho Transportation Dept, ISPE Past President, Director – NSPE Western & Pacific Region**

There is ongoing and heated debate amongst professional engineers and regulators over whether there is a need to create separate licenses for each discipline of engineering, or whether public health, life safety, and welfare is better served with the single PE license. This debate is fueled by the perception that there is an observable decline of engineering judgment throughout the profession. In this presentation, you will have the opportunity to gain a better understanding of the differing views, new insight into the issues, and perhaps learn how we, as a profession, might best resolve this important question.

**5:00 – 6:00 PM Social**

**Student Union Building -**

**Simplot AC Ballroom**

**6:00 – 7:30 PM Dinner**

**Student Union Building - -Induction of Officers**

**Simplot AC Ballroom -Awards**

**Friday, May 13**

**7:30 – 8:00 AMBreakfast**

**Student Union Building –**

**Simplot BD Ballroom**

**8:00 – 8:50 AM** **Update on the IPDES Guidance**

**Student Union Building - Development (1 PDH)**

**Simplot BD Ballroom Mary Anne Nelson – IPDES Program Manager, Dept of Environmental Quality**

**Taking on the NPDES Program in Idaho**

Idaho is one of only four states in the U.S. without delegated authority to write National Pollutant Discharge Elimination System (NPDES) permits. In 2014 the Idaho Legislature directed the Idaho Department of Environmental Quality (IDEQ) to apply for this authority. As Idaho develops and prepares to implement NPDES program elements, there will be numerous opportunities to craft a structure that is both responsive and efficient. Idaho DEQ believes that a state-run program has several benefits and is pursuing this authority for several reasons including: state employees with familiarity and understanding of Idaho specific issues will oversee the program, the state will have ability to interpret and apply Idaho’s water quality standards to determine the appropriate permits limits and alternative approaches, and the state will focus on upfront compliance assistance before enforcement.

The lack of authority to implement the NPDES program has been a distinct drawback in the overall ability of the agency to effectively coordinate water quality programs such as total maximum daily load program, the state grant and loan program, and the wastewater re-use program. By having the delegated authority to draft and issue NPDES permits in Idaho, the agency will be better able to coordinate these programs to reduce the overall administrative burden on the regulated community as well as being able to coordinate all of the available tools, including variances, trading, and compliance schedules, to develop commonsense solutions during the permitting process. The largest benefit that the regulated community is likely to see though is an increased efficiency in the drafting and issuance of NPDES permits and the ability to work with local permit writers and inspectors to address concerns of non-compliance.

This presentation will outline the overall approach the agency is taking to complete the application for delegated authority by the legislated deadline of September 2016 as well as discuss some of the frequently asked questions regarding what primacy will mean for those with NPDES permits in Idaho.

**9:00 – 9:50 AM** **Update from the Board of**

**Student Union Building - Licensure (1 PDH)**

**Simplot BD Ballroom Keith Simila, PE – Executive Director, Idaho Board of Professional Engineers & Professional Land Surveyors**

Keith will provide current information involving licensure as it relates to PE’s such as new laws and rules issued and contemplated, ethics cases, new web site features and new examination and other information from the National Council of Examiners for Engineering and Surveying.

**10:00 – 10:50 AM** **Ethics in Public Service (1 PDH)**

**Student Union Building -** **Dr.** **Stephanie Witt – Director, Applied Research**

**Simplot BD Ballroom Center, Boise State University**

Overview of ethics and why ethics are not like "doing your taxes". Review of the different types of ethics problems one can face in public service along with specific case studies and relevant Idaho Code.

**11:00 – 11:50 AM** **Unmanned Aerial Systems: Technology,**

**Student Union Building - Applications and Case Studies (1 PDH)**

**Simplot BD Ballroom Ron Looney – Director of Operations, Empire Unmanned**

**Rich Waltrip, PLS – Owner, Waltrip Geomatics & Geospatial Services LLC**

The presentation will cover UAS hardware and software, Accuracy/precision, Project Applications and Deliverables, FAA requirements

and Future trends.

**12:00 – 1:30 PM** **Lunch**

**Student Union Building – Order of the Engineer (1 PDH)**

**Simplot BD Ballroom Kenneth L. McGowan P.E., F.NSPE – HDR, Bellevue, WA – Chair, National Order of the Engineer**

**About The Order**

The Order of the Engineer was initiated in the United States to foster a spirit of pride and responsibility in the engineering profession,

to bridge the gap between training and experience, and to present to the public a visible symbol identifying the engineer.

The first ceremony was held on June 4, 1970 at Cleveland State University. Since then, similar ceremonies have been held across the

United States at which graduate and registered engineers are invited to accept the Obligation of the Engineer and a stainless steel ring.

The ceremonies are conducted by Links (local sections) of the Order.

The Order is not a membership organization; there are never any meetings to attend or dues to pay. Instead, the Order fosters a unity

of purpose and the honoring of one’s pledge lifelong.

The Obligation is a creed similar to the oath attributed to Hippocrates (460-377 B.C.) that is generally taken by medical graduates and

which sets forth an ethical code. The Obligation likewise, contains parts of the Canon of Ethics of major engineering societies. Initiates,

as they accept it voluntarily, pledge to uphold the standards and dignity of the engineering profession and to serve humanity by

making the best use of Earth’s precious wealth.

The Obligation of the Order of the Engineer is similar to the Canadian “Ritual of the Calling of an Engineer” initiated there in 1926. It

uses a wrought iron ring, conducts a secret ceremony, and administers an oath authorized by Rudyard Kipling. The extension of the

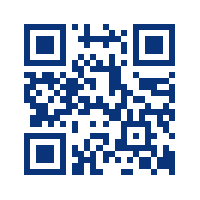
Ritual outside Canada was prevented by copyright and other conflicting factors. The basic premise, however, was adapted for the

creation of the Order of the Engineer in the United States in 1970.

**2:00 – 4:50 PM Walking Tour (3 PDH)**

**College of Innovation & Design/Maker Lab**

Learn about the new College of Innovation and Design (CID) at Boise State including the following programs: Bridge to Career, Vertically Integrated Projects, Venture College, Human Environment Systems (HES), Leadership and Human Relations (LEAD), Harvard Business School Immersion at Boise State and Venture Challenges/Idaho Entrepreneur Challenge along with the new major in Gaming, Interactive Media, & Mobile Technology. Following the talk get a tour of the Maker Lab in the Albertsons Library. This is a network of spaces and resources that support Boise State’s mission to collaborate, learn and use emerging technologies to turn ideas into reality. This includes a collaborative learning space with 3D printing, a green screen, computers and the software necessary to support audio, video and 3D design. A sound booth serves as a private space with sound proofing to record and edit audio and video.



**Broadway Bridge**

Broadway bridge was constructed in 1956. Based on 2012 survey the bridge sufficiency rating was 48.4. The superstructure and substructure were in poor condition. The sidewalks on the bridge didn’t meet current standards and there were no bicycle facilities on the bridge. The clearance between the river and the bridge was inadequate for rescue boats. The new bridge is 473 ft. long structure with three piers, four span steel girders with concrete slab end spans over the greenbelt at both north and south end. The new bridge will have three lanes in each direction with wider sidewalks, bicycle lanes and three belvederes on each side of the bridge to overlook the river. The construction is scheduled to finish by labor day before the first BSU game. The project was bid for construction in three stages totaling $14.2 million.

**College of Engineering Labs**

**The Surface Science Lab**

The Boise State Surface Science Laboratory (SSL) was engineered to provide a constant temperature, low noise environment for optimal Atomic Force Microscopy and Scanning Electron Microscopy operation. The SSL’s capabilities include topography/morphology determination; surface roughness and particle distribution analysis; fluid imaging; electrical characterization; magnetic properties evaluation; nanomechanical properties measurement and mapping; and nanomanipulation and nanolithography. Research is conducted in the SSL by members of the Electrical and Computer Engineering, Materials Science and Engineering, Mechanical and Biomedical Engineering, Biology, Chemistry, and Physics Departments at Boise State, as well as Northwest Nazarene University, the University of Idaho, Idaho National Laboratory, and Monash University (Australia). Industrial collaborations exist with Micron Technology and the Boeing Corporation, among others. More information can be found on the SSL website, <http://nano.boisestate.edu/ssl>. Those interested in accessing the SSL’s capabilities should contact the SSL Manager, Dr. Paul H. Davis, at [pauldavis2@boisestate.edu](mailto:pauldavis2@boisestate.edu) or (208) 426-2091.

**The Water Resources Lab**

Dr. Jairo Hernandez of the Department of Civil Engineering will share research being conducted in the Water Resources Lab at Boise. This research includes the areas of groundwater modeling and artificial intelligence applications for water resource systems. Specifically, his team is developing a groundwater model for the Treasure Valley Aquifer based on geological layers to gain insight on how groundwater and surface water are interacting in the vadose zone. His team is also working on how a computer model could find operational rules in an irrigation system with no human intervention and testing model with real data from the Treasure Valley.

**Idaho Microfabrication Laboratory (IML)**

The Idaho Microfabrication Laboratory (IML) at Boise State is a research and educational resource dedicated to the advancement of materials and processes used in the semiconductor and microelectronics industries. Comprised of a cluster of labs containing device and circuit fabrication equipment, the facility includes photolithography and chemical and thermal processing units inside a class-1000 clean room, as well as other tools for deposition, etch, and characterization. Users of the IML primarily come from academia together with a smaller contingent from industry. They have the ability to assist numerous local companies, ranging from start-ups to global technology leaders, in research and development of new and improved products.

**Visualization Lab**

The HoloShots project is building technology to let you step into photographs. By capturing stereo-panoramas at resolutions above 100 Megapixels, virtual reality becomes reality. Although stepping into pictures is great, what you want to be able to do is walk in them. That is exactly what we are producing. We are testing and developing a variety of 360′ stereo capture devices to allow for real-time navigation in photorealistic environments. In this project, we use specially assembled camera rigs on robotic mounts to capture 360′ immersive stereo at very high resolution (over 100 megapixels for each eye). More at <http://cs.boisestate.edu/~scutchin/holoshots/impano.html>

**Biographical Sketches**

**Amy J. Moll**

Amy J. Moll is a Professor of Materials Science and Engineering and Dean of the College of Engineering at Boise State University. Amy received a B.S. degree in Ceramic Engineering from University of Illinois, Urbana in 1987. Her M.S. and Ph.D. degrees are in Materials Science and Engineering from University of California at Berkeley in 1992 and 1994. Following graduate school, Amy worked for Hewlett Packard in San Jose, CA and in Colorado Springs, CO. She joined the faculty at Boise State as an Assistant Professor in Mechanical Engineering in August 2000. Along with Dr. Bill Knowlton, Amy founded the Materials Science and Engineering Program at BSU and served as the first chair. In February 2011, Amy was became Dean of the College of Engineering. Amy’s research interests include microelectronic packaging, particularly 3-D integration and ceramic MEMS devices. Amy especially enjoys teaching the Introduction to Engineering and Introduction to Materials Science and Engineering courses as well as engineering outreach activities.

**Mark Richardson**

Mark Richardson, Principal and Vice President of Pinnacle Surety brings more than 20 years of extensive insight and experience to the company. Before joining Pinnacle in 1995, he spent 10 years in various capacities, learning the equipment leasing/finance, mortgage banking/brokerage, and land development markets. He also took part in the acquisitions of retail centers. He applies his broad set of knowledge to ensure that the agency never approaches a deal with a one-size-fits-all attitude and applies the best market knowledge – regardless of the industry – to the surety business. As a surety bond specialist, Mark helps clients meet their goals by aligning them with the appropriate surety or with attorneys, bankers and CPA’s that specialize in the construction industry. With an emphasis on fostering relationships, he has a remarkable record for sustaining clients and is an active member with several construction associations and continues to support the industry with resources and surety knowledge. Mark also sits on the National United Fire Group Agent Advisory Board and has had the privilege of presenting on behalf of the DOT, AGC, ASA and CFMA. In Mark’s spare time, he enjoys his family, playing golf, horseback riding, and skeet and trap shooting.

**Jennifer Grenrood**

Jennifer joined Pinnacle in July of 2008. Jen has worked on both the agency and company side of the surety industry. Her background provides her exceptional insight in implementing Pinnacle’s marketing plan. Jen originally began her career in the surety industry in 1987. She has worked as branch manager for a national insurance company, as an executive assistant for top surety bond producers, and she ran the loss recovery department for a Southern California auto repair facility. Jen relocated to Idaho in 2010. She serves on the CFMA Boise Chapter Board as the Membership Director and she is also on the AGC Associate Committee as elected Co-Chair. In 2014 Jen was awarded as AGC’s Associate of the Year. She is responsible for Pinnacle’s business development and growth in the Pacific Western States. Her territory includes CA, ID, MT, OR, WA & WY. In Jen’s spare time, she enjoys spending time with her family, hiking with her dogs, traveling and meeting new people.

**Rick L. Stacey**

Rick L. Stacey is a construction attorney and founding member of McConnell, Wagner, Sykes + Stacey, PLLC. He is recognized as an expert in Idaho construction law issues and recently travelled to Beijing, China to testify as such in a litigation related to the failed Hoku, Inc. polysilicon plant in Pocatello, Idaho. Mr. Stacey has received an “AV” peer review rating by Martindale-Hubble and a “10.0 Superb” rating from Avvo.com, which are the highest ratings available. He has also been named by the National Trial Lawyers as a “Top 100 Trial Lawyer.” Mr. Stacey has taught numerous seminars on legal issues throughout the state of Idaho.

**Tom C. Roberts, P.E., F.NSPE -**

Tom C. Roberts, P.E., F.NSPE is Vice President of the National Society of Professional Engineers (NSPE). He will serve as NSPE President in 2017-18.

Mr. Roberts has more than 40 years’ experience in planning, organizational development, and leadership training programs. He worked for Black & Veatch for 16 years (including 11 years in human resources). He formed Upward Consulting in 1989 and has served as a continuous quality improvement consultant for a number of manufacturing & service companies and educational institutions. He has presented information on systems thinking, professional development and our changing society to a wide variety of national audiences.

For 21 years at Kansas State University (KSU) he was responsible for engineering recruitment and leadership development and is currently Assistant Dean Emeritus of KSU’s College of Engineering.

As a 40 year member of NSPE, Mr. Roberts has held, and continues to hold, numerous volunteer leadership positions to include membership on the Board of Directors, Executive Committee, and Legislative & Government Affairs Committee. He is a past chair of NSPE’s Professional Engineers in Higher Education and in 2010 was named an NSPE Fellow.

Mr. Roberts is a past president of the Kansas Society of Professional Engineers (KSPE) and past chair of its Government Relations Committee. He has served nationally as first vice president of the American Society for Engineering Education and is both a Life and Fellow ASEE member. In his community he is vice president for Strategic Planning and Programs for the Boy Scouts of America, Coronado Area Council.

He holds B.S. and M.S. degrees in Nuclear Engineering from KSU and has been a licensed professional engineer since 1976.

Mr. Roberts continues to promote engineering licensure to practicing professionals, teachers, students and parents while mentoring high school students to make effective career choices. He is married to Karen who serves as an industry educational consultant and professor in Human Ecology. They have two sons, Greg & Chad.

**Brian Patton, PE**

Brian received a B.S. in Civil Engineering in 1995 from the University of Idaho. He is a Licensed Professional Engineer (Civil Engineering) in Idaho and has been with the Idaho Department of Water Resources since 1995 in various positions of increasing responsibility. He currently serves as the Planning Bureau Chief for the Department and as the Executive Officer for the Idaho Water Resource Board. In this role, he has direct responsibility for all programs, projects and actions carried out by the Water Resource Board, including efforts to resolve the water supply and demand imbalance from the Eastern Snake Plain Aquifer, efforts to increase Idaho’s water storage capacity, operation of the various state water projects, management of the Board’s financial activities, and the revision of the State Water Plan. He acted as the project manager for several major projects undertaken by the Board, including its Dworshak Hydropower Project and managed recharge of the Eastern Snake Plain Aquifer.

Brian graduated from the University of Idaho with a degree in Civil Engineering. Prior to working at Water Resources, he worked for the Idaho Transportation Department and in the mining industry.

**Braydan P. DuRee, PE**

Braydan is a senior geotechnical engineer for GeoEngineers, Inc. with nearly ten years of experience in the Pacific Northwest. He graduated from Utah State University with a Bachelor’s of Science degree in civil and environmental engineering and a Masters of Engineering degree in civil engineering with an emphasis on geotechnical engineering. He is licensed in the states of Washington, Idaho, Oregon, and Utah. Braydan has successfully managed several large engineering projects in primarily the transportation and development markets. He provides clients with recommendations for shallow and deep foundations, ground improvement, retaining walls, temporary shoring, seismic design, slope stability, and drainage design. Braydan especially enjoys the collaboration that comes with design-build and CMGC project delivery methods. Braydan has provided geotechnical engineering services for a number of large design-build projects, including the I-405 Bellevue Braided Ramps, I-90 Hyak CRIP, SR520 Floating Bridge and East Landing, SR530 Emergency Reconstruction after Oso Landslide, and the SR167 SB HOT Lanes projects. In his free time, Braydan enjoys spending time with his wife and three children at home in Kuna, Idaho.

**Gregory Brands P.E., F. NSPE**

Greg has over 35 years’ experience in Civil and Structural Engineering, and in management of engineering and construction projects in Washington, Alaska, California, Montana, and Idaho. He has been a licensed professional engineer since 1990. Greg worked eight years for Kiewit Pacific Co in construction engineering and supervision on projects totaling over a quarter billion dollars (1980 dollars), worked six years in engineering and engineering management at R.W. Beck and Associates, and at other firms as Principal Engineer, and Engineering Manager. For the last eight years Greg has been performing project engineering and management at the Idaho Transportation Department. He has been an active member of the Idaho Society of Professional Engineers (ISPE) since 2003. He served several terms as Northern Chapter President of ISPE, as well as consecutive terms on the ISPE Executive Board as Jr. Regional Director, Regional Director, and on the House of Delegates representing Idaho at National Society of Professional Engineers (NSPE) meetings. Greg served multiple terms as Past-President/President-Elect and President of the ISPE. He was nominated to Fellow, NSPE, spring 2014. Greg is currently the Director, NSPE Western & Pacific Region and has served on the NSPE Regional Director's Best Practices Task Force. He served as Chairman of the NSPE Standard of Care Task Force, and also chaired the Standards of Professionalism in Engineering Practice Task Force. Greg is currently NSPE Board liaison to the NSPE Board of Ethical Review, and a member of the NSPE Committee on Policy and Advocacy.

He lives in Post Falls, Idaho and is married with five children, four in college, and one in high school. Greg loves outdoor sports including hunting, water skiing, and snow skiing, backpacking, and mountain bikes.

**Mary Anne Nelson**

Mary Anne Nelson is the IPDES Program Manager for the Department of Environmental Quality. She’s a native of Salmon, Idaho with a bachelor’s degree in chemistry from the College of Idaho and a doctoral degree from the University of Nebraska-Lincoln. Mary Anne started with DEQ 12 years ago as the statewide ambient monitoring coordinator and transitioned to a water quality standards analyst in 2007. In September of 2014, she was hired as the IPDES program manager (a program of 1 until November) and has been working to promote the agency’s efforts to gain delegated authority for the NPDES program.

**Keith Simila**

Keith Simila is the Executive Director of the Idaho Board of Licensure for Professional Engineers and Professional Land Surveyors. He has served in that capacity since May of 2013 which includes oversight of PE and PLS licensure in the State of Idaho. His prior assignments involved various staff and management positions in the US Forest Service in Idaho, Montana, Alaska, and Washington, DC. After 33 years, he retired as the Director of Engineering in Ogden, UT and now makes his home in Boise. During his tenure with the Forest Service, Keith worked on roads, bridges, buildings and related infrastructure, and cleanup of hazardous wastes at former industrial and mining sites.

**Dr. Stephanie Witt**

Dr. Stephanie Witt is Director of the Applied Research Center at Boise State University. She is also a Professor in the Master of Public Administration (MPA) and Political Science programs. She serves as Editor of the Social Science Journal. Stephanie Witt began her career at Boise State in 1989 as a political science professor, after receiving her doctorate from Washington State University in Pullman, Washington. She chaired the Political Science Department for six years, has served as Interim Associate Dean for the College of Social Sciences and Public Affairs, and was Associate Vice President for Academic Affairs for nearly six years.

**Ron Looney**

Ron is the Director of Operations for Empire Unmanned and one of the company's first UAS pilots and Visual Observers. He is also experienced in developing UAS courseware for many colleges and universities. He has been involved in all aspects of the aviation industry for over 30 years, from airplanes to helicopters, flying to maintenance, and even fuel and ammunition. Embracing his passion for aviation, he joined the U.S. Army where he commanded AH-64 Apache equipped units and also flew AH-1, OH-58 and UH-1 helicopters in many places throughout the world, retiring after more than 21 years of active service. During his time in the U.S. Army he was also fortunate enough to work deep underground at Cheyenne Mountain Air Force Station (CMAFS) with NORAD and USNORTHCOM as an air battle management officer and chief of current operations, tasked with the overall airspace security of North America.

Answering the strong desire for flying again, Ron moved to Idaho and flew air ambulance helicopters in Elko, NV and later flew heads of state for many countries and members of the royal family in Abu Dhabi, UAE. Ron has nearly 4,000 hours of flight time and Air Transport Pilot-helicopter and Flight Instructor certificates as well as a Bachelors and an MBA from Embry Riddle Aeronautical University.

He lives in Star, ID and has been married to his wife Kimm for over 30 years. They have two sons, a daughter, and 4 grandsons. He loves the sunshine in Idaho and enjoys just about anything outdoors.

**Rich Waltrip, PLS**

Rich Waltrip is the owner of Waltrip Geomatics and Geospatial Services, LLC (WGG) in Spokane, Washington. He is a professional land surveyor with over 35 years of experience on a wide variety of projects including right-of-way projects, airport projects and large scale mapping projects. Experience includes the coordination of photogrammetric mapping and GIS mapping as part of the development of large project base maps. He has developed GIS data collection standards for projects and local agencies. Through his firm WGG, Rich involved with geospatial data management, as well as geospatial workflow and data improvement. Recent project efforts involve investigating and evaluating the application of Unmanned Aerial Systems on civil/survey projects.

**Kenneth L. McGowan P.E., F.NSPE**

Ken has been a member of NSPE since 1974. He is a former national chair of NSPE PEPP and remains active on several NSPE national committees, including the Joint NSPE/ ACEC QBS Awards Committee, Membership Retention Committee and Policy Review Task Force. Ken currently chairs the national Order of the Engineer where he has been an active Board of Governors member since 2000.

Ken owned his own engineering firm from 1998 through 2007. He currently serves as the lead electrical engineer for HDR Bellevue, WA ASMEC group. Ken has been a long time active member in technical and professional organizations. He has served as a past president of the Washington Society of Professional Engineers, Past President of the Electric League of the Pacific Northwest, Chair of Architects and Engineers Legislative Council (AELC), President of the Puget Sound Engineering Council, and an officer of the Seattle Section of IEEE. He has authored numerous technical and professional publications mostly on technical subjects.

**2016 ISPE Annual Meeting Committee**

Scott Ellsworth, ISPE State President

Joe Canning, ISPE Secretary Treasurer

Lynn Olson, ISPE National Director

Lewis Venard, ISPE Junior National Director

Jim Baker, Southwest Chapter

Seth Olsen, Southwest Chapter President

Tim Blair, Southwest Chapter Past President

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For more information about the Idaho Society of Professional Engineers, or to become a member, please contact us

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