



PUBLISHED BY THE OREGON STATE BOARD OF EXAMINERS FOR ENGINEERING AND LAND SURVEYING

The mission of the Oregon State Board of Examiners for Engineering and Land Surveying (OSBEELS) is to regulate the practice of engineering, land surveying, photogrammetric mapping, and water right certification in the state as they relate to the welfare of the public in safeguarding life, health and property.

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New Board Member

OSBEELS Welcomes Dave M. Van Dyke, PE.

Dave M. Van Dyke, PE, was appointed by Governor John A. Kitzhaber, MD, to the Oregon State Board of Examiners for Engineering and Land Surveying (OSBEELS) as of July 2014.

Van Dyke completed his undergraduate degree in Mechanical Engineering (BSME) and his Masters of Science degree in Mechanical Engineering (MSME) at Portland State University with a focus on advanced finite element analysis and advanced stress analysis. During this time, Van Dyke was also awarded the Portland State University College of Engineering and Computer Science award for Outstanding Teaching Assistant/Research Assistant. He is also a currently licensed Professional Engineer in Oregon, California and Washington.

Van Dyke's skill areas include machine design/analysis, weld engineering, physical metallurgy,

forensics/failure analysis, design of experiments, finite element analysis (FEA), instrumentation and non destructive testing and inspection.

His current position as an engineering manager at VGO Inc. Engineers in Portland, Oregon has provided him with a diverse skill set in mechanical engineering. In addition to the technical components of his work at VGO Inc, his tasks include oversight and management of projects within the firm. Van Dyke has also consulted on numerous legal cases and frequently speaks at technical classes and and society presentations.

"I just love the field. I have this boyhood curiosity and enthrallment with mechanics and engineering and solving problems. I feel fortunate that I get to practice this on a daily basis and that I've found an industry that I can work in that I really love."

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NEW BOARD MEMBER, from Front Page

Van Dyke's wide-range of experience in mechanical areas will help provide a balanced perspective on future matters the Board may face.

His work in physical testing includes non-standard tests on structures from medical devices to interstate bridges. Based on the application and desired output, Van Dyke has used instrumentation and high-speed digital data acquisition systems to record system parameters and has overseen proof loading and proof of concept studies. Prior to his work in forensics and testing, Van Dyke managed custom design and manufacturing projects for an industrial design and prototyping company. This hands-on approach to engineering gave him an understanding of heavy machinery design and fabrication techniques.

When it comes to OSBEELS mission - safeguarding the life health and property of the people of Oregon, Van Dyke takes the rules very seriously.

"I'm kind of a 'stickler' when it comes to following the rules associated with life, health and safety in the practice of engineering. I'm a big believer in the licensure process. That's my focus at this point - making sure the rules as written are followed and complied with."

After working hands-on as a mechanical engineer and manager,

Van Dyke is looking forward to seeing the practice from a new perspective as a Board member.

"I'm familiar being a [user] of the system and it has been fascinating to see how the actual process works on the other side of the coin. Personally, that's been the most interesting and educational portion so far."

Keeping active in the engineering community, Van Dyke takes part in various associations and participates in seminars and publications relating to his practice. As a member of the American Society of Mechanical Engineers (ASME), Van Dyke has served as Vice-Chair for the Oregon chapter from 2006-2008 and was later elected 2008-2009 Chairman.

He has since been reelected and continues to serve as the current Chairman for ASME Oregon. It is no surprise that Van Dyke actively takes part in industry events and educational opportunities, as he has been captivated by the field for many years.

Continued on page 3.

DAVE M. VAN DYKE'S PAST SEMINARS & PUBLICATIONS

"Failure Analysis Investigation Short Course" April 2006, for OSAE at Freightliner Corporate Headquarters

Co-Author of Welding Failures chapter in American Welding Society (AWS) Handbook, published in 2008

"Load and Resistance Factor Rating (LRFR)" March 2006, Bruce Johnson, PE and Bala Sivakumar, PE, ODOT Bridge Section

"Engineering Analysis with Emphasis on the Finite Element Method" March 2006, Dr. Lemmy Meekisho with guest lecture by Dave M. Van Dyke, PE.

"American Welding Society (AWS) Weld Inspection Seminar" February 2005

"Society of Tribologist and Lubrication Engineers (STLE) Lubrication Training Seminar" March 2003.

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When asked, *why engineering?* He says, “When I was a kid, at 8 years old, I remember taking apart the toaster and I realized I had to get it back together before [my] parents got back home. I knew then of my love for machinery, equipment and seeing how things work.”



New Board Member, Dave M. Van Dyke, PE, is also a FFA Licensed Pilot.

Pictured on the right is Dave and his Grumman Tiger Airplane on the Alvord desert in Eastern Oregon.

Personally, Van Dyke is also a PADI Licensed Open Water SCUBA-Diver and FFA Licensed Private Pilot.

OSBEELS is pleased to welcome Mr. Dave M. Van Dyke, PE, to the Board. ■

Other Changes to the Board

Reappointment

William Boyd, Public Member, was reappointed to the Board to serve a second term from July 2014 to June 2016. Mr. Boyd will continue to serve on the Examinations and Qualifications, Rules and Regulations, and Legislative committees. Mr. Boyd is currently the Chair of the Law Enforcement Committee and a member of the Digital Signatures Task Force.

New President and Vice President

As the previous Board Vice President, Sue Newstetter, PLS was voted by her fellow Board members to succeed Carl Tappert, PE as the current Board President, effective July 1, 2014. Ms. Newstetter will serve as the Board President until the end of her term in 2015. Ken Hoffine, PE/PLS/CWRE will now be serving as the Board's Vice President. Mr. Hoffine joined the Board in July 2008 and has served on the Examinations and Qualifications, Finance, Law Enforcement, Professional Practices, Rules

and Regulations, and the Standards of Land Surveying Practices Committees, along with serving on the Oregon Specific Examination Task Force.

Farewells

OSBEELS bids farewell to James Doane, PE/PLS and Anne Hillyer, RPP. Mr. Doane has left the Board after serving four years as a Board member. Mr. Doane joined the Board in July 2010 and served on the External Relations, Examinations and Qualifications, Finance, Joint Legislative, and Professional Practices committees. Mr. Doane was also a member of the Oregon Specific Examination and Modification of Designs and Documents Task Forces. Ms. Hillyer was the first registered professional photogrammetrist appointed to the Board. She joined the Board in July 2013 and served on the External Relations, Examinations and Qualifications, and Professional Practices committees. The Board and OSBEELS staff wish both Mr. Doane and Ms. Hillyer the best in their future endeavors. ■

Changes in FE and FLS application rates following transition to computer-based testing

Based on calculations from the National Council of Examiners for Engineering and Surveying (NCEES), a number of jurisdictions have experienced a drop in applications for the Fundamentals of Engineering (FE) examination since the transition to computer-based testing. There has been no explanation offered to explain the drop in applicants. In 2013 (April & October exam administrations), OSBEELS received 735 FE and 11 Fundamentals of Land Surveying (FLS) pen-and-paper applications. For 2014 (January 2014-December 2014) OSBEELS received 377 FE and 13 FLS CBT applications - indicating a 49% drop in FE applications and a 18% increase in FLS applications. ■

Board Member Wanted

The Oregon State Board of Examiners for Engineering and Land Surveying (OSBEELS) is seeking a Registered Professional Photogrammetrist. As per Oregon Revised Statute (ORS) 672.240, each PE, PLS or RPP Board member must be a resident of Oregon for at least three years immediately preceding appointment and have been practicing as a registered professional for at least five years since the date of the individual's initial registration.

Board meetings are held on the second Tuesday of each odd-numbered month and Committee meetings are held the second Thursday and Friday of each even-numbered month. Board members are eligible for per diem and reimbursements for actual expenses involved in carrying out Board business.



State Capitol, by Andre Orso of ODOT

Interested? For more information on the application process or the role of State Board members, visit www.oregon.gov/Gov/Pages/boards.aspx and follow the instructions provided. Contact the Board office with any questions. ■

Plan to address the Board or Committee?

Points to remember:

A public comment period may be available during Board and Committee meetings for individuals wanting to address the Board or Committee on agenda or non-agenda items. The Board will not take action on non-agenda items raised under public comment at this meeting. Public comment will only be heard if, in the Board President or Committee chair's discretion, time allows.

- Public comment is subject to the discretion of the Board President or Committee Chair, including: order of commenters, length of comments, comment topics, etc. The Board President or Committee Chair also determines if public comments will be heard at all during a meeting.

- Please note, Oregon's Public Meetings Law is a public attendance law, not a public participation law. While the Board or Committee may elect to hear public comment, the public comment period is not a time for open dialogue between the Board members and the public, Board or Committee discussion, or deliberation. Topics raised during public comment may, at the discretion of the Board or Committee, be formally included on the agendas of future meetings.

- Sign-in prior to entering the conference room. Include your full name, the business or organization you're representing (if applicable), and the topic of discussion.

- The Board President or Committee Chair will call you to stand and provide your comments. Please state your name and business or organization you represent (if applicable) prior to beginning your comments.

- Always address your comments to the Board President or Committee Chair.

- If written material is included, please provide Board staff with one electronic file or 14 printed copies of each pertinent document (if an electronic file is not available) at least 24 hours prior to the posted meeting time.

During a public meeting, the Board or Committee may convene an Executive Session under the provisions described in ORS 192.660.

Upon convening an Executive Session, all members of the public must leave the discussion area. However, representatives of the news media will be allowed to remain, but are requested to not report on the discussion that occurs. Additional information regarding restrictions and allowances pertaining to news media is contained in ORS 332.061(2), 192.660(4) and 192.660(5).

No final decisions may be made during an Executive Session. "No executive session may be held for the purpose of taking any final action or making any final decision" (ORS 192.660(6)). A general consensus may be reached during an Executive Session, but the final decision must be known to the public. A formal vote upon returning to open session will be taken to document all final decisions.

For additional information, A Citizen's Guide to Public Records and Meetings is available at http://www.doj.state.or.us/public_records/citizens_guide.shtml. 

2014 Symposium

Focusing on Innovation in Industry

The Oregon State Board of Examiners for Engineering and Land Surveying (OSBEELS) recently hosted its fourth annual symposium at the Salem Convention Center in Salem, Oregon. Nearly 160 registrants attended the day-long conference which highlighted innovation and infrastructure-related areas of interest. Full-day attendance earned registrants 8 professional development hours (PDH), which is nearly one-third of the hours needed for each biennial renewal cycle.

“OSBEELS’ annual symposium is valuable to our registrants as it provides a forum for great networking, information sharing and the opportunity to earn up to 8 professional development hours in a convenient and budget friendly venue,” explained Board President, Sue Newstetter, PLS.

Experts from across the state covered topics such as smart grids, route mapping for space shuttle movement, digital signatures, prefabricated and modular construction, unmanned aircraft systems for aerial mapping, land administration for sustainable development and more. Speakers were from a variety of public and private organizations including the

Oregon Department of Transportation, Blazer Industries Incorporated, Oregon State University, Oregon Institute of Technology, David Evans and Associates Incorporated, the Portland Development Commission, Quantum Spatial and OBEC Consulting Engineers. Additionally, the Professional Engineers of Oregon association attended and was able to answer questions about PEO membership and upcoming association events.

After an overview and welcome speech from OSBEELS Board President, Sue Newstetter, PLS, registrants broke out into two different tracks: engineering and land surveying/photogrammetry. Attendees who registered for the engineering track started the morning with a prefabricated and modular construction presentation given by Rock Shetler. Mr. Shetler was able to use his experience working with Blazer Industries Incorporated, in Aumsville, Oregon to discuss innovation when it comes to building mobile and modular buildings. Highlights included modular buildings as an innovative construction method, emerging trends and the affect modular construction may have on the engineering field. Mr. Shetler’s presentation was an eye-opener, according to an attendee who in an after-event survey



The Land Surveying & Photogrammetry track included a panel discussion on the Future of Land Surveying. Pictured from left to right are panelist Marcus Reedy, Chris Brown, Andrew Plett, and Mason Marker. Ron Singh (standing) moderated the discussion.

2014 SYMPOSIUM, from Page 6

said, “[Rock Shetler] opened my eyes to elements of pre-fabricated construction that I did not know existed.”

Another anonymous survey response mentioned, “He provided great first-hand experience and insight into the business.”

Frank Rytkonen, assistant professor in the Electrical Engineering and Renewable Energy Department at Oregon Institute of Technology in Wilsonville, Oregon, spoke next about smart grids.

During this engineering session, Mr. Rytkonen helped define “smart grid,” and examined the current state of the electric grid and identified smart grid driving forces.



Rock Shetler, Prefabricated & Modular Construction Session

The smart grid session also looked over a case study on BPA, which Mr. Rytkonen mentioned was one of the first to develop the smart grid concept. According to some attendees, the content in this presentation provided learners with a new perspective. “[Smart grids] was something totally new from my education and experience. It gave me a new perspective on our electrical power grid and the challenges we face.”

Mr. Rytkonen’s ability to apply the session to all types of professionals was mentioned on a variety of occasions, including these survey responses: “As a civil engineer, this was a subject I know very little about so the information presented was new and fresh.”

“Outstanding dynamic speaker [who] brought it down to an easy level of understanding, even for non-electrical engineers.”

Other highlights during the engineering track included the Innovation in Infrastructure Task Force session lead by Karen Williams, who currently serves as an advisor to the Governor and Treasurer of Oregon on innovative procurement of infrastructure, including working on both projects and policy. Gary Holeman, Senior Design and Automation Engineer for the Oregon Department of Transportation, ended the engineering series with a presentation on digital signatures. This included information on the difference between electronic signatures and digital signatures and also the difference between 3rd party certificates and self-signed certificates. Mr. Holeman also included information regarding digital signature security features and implementation in the engineering field. This type of information and training has been requested by multiple attendees in the past. According to one attendee, this information couldn’t have come at a better time:

“It was a great overview of the digital signature process [and] very timely, as I’ve been requested to use a digital signature recently and was searching for information on the topic.”

2014 SYMPOSIUM, from Page 7

For those who attended the Land Surveying/Photogrammetry track, the day started with Marcus Reedy's presentation on Route Mapping for Space Shuttle Movement. Mr. Reedy used diagrams, multimedia videos and more to demonstrate the 2012 LAX to California Science Center Space Shuttle Endeavor and how it can be used as an example in innovation. In August 2011, Mr. Reedy and David Evans and Associates Inc. (Portland, Oregon) played a vital role in the Endeavor's success. The presentation included project challenges (shuttle construction, funding and route planning), a look at the National Cooperative Highway Research Program's Guide for the Use of Mobile LIDAR in Transportation Applications and virtual reality used during the project.

Ron Singh, current OSBEELS Board member and ODOT Chief of Surveys and Geometrics Manager, lead a discussion panel for the next session in the Land Surveying/Photogrammetry track. The discussion panel focused on The Future of Land Surveying and included panelists Marcus Reedy of David Evans and Associates Inc., Andrew Plett of OBEC Consulting Engineers, Chris Brown of Quantum Spatial, and Mason Marker from the Oregon Institute of Technology in Klamath Falls. Various topics were discussed during the panel, including new surveying technologies, future GIS systems, smartphones, augmented reality and real-time GPS networks, digital photogrammetry and frame size, color imagery, Light Detection and Ranging (LiDAR), airborne remote sensing, real-time networks, camera-integrated total stations, among other topics discussed.

Other highlights during the Land Surveying/Photogrammetry track included Dr. Michael Wing's session on Unmanned Aircraft Systems for Aerial

Mapping and Mason Marker's session regarding Land Administration for Sustainable Development.

During the lunch break, Keynote presenter Ron Singh captivated both engineering and land surveying/photogrammetry attendees with his presentation on Construction Automation. The keynote was voted a favorite among attendees, who mentioned the following in an after-event survey,

"It's impressive how new technology is being applied to speed up construction while maintaining quality control. [Ron Singh's] slide show was informative and very interesting to me."

"This session informed me of new technologies from design to construction of earthwork projects that I was not aware of."

"Who doesn't like heavy equipment?"

"Persistent and collaborative approach to innovation by a public sector professional."

The OSBEELS Symposium is an annual event held in September. Information for the symposium is announced in early summer and registration is available through the day of the event. Registration fees cover registration materials, lunch and 8 PDHs. Anyone interested in attending future symposium events should keep an eye out for an announcement in the newsletter, The Oregon Examiner, on the Board's Facebook page at www.facebook.com/osbeels and on the Board's Web site at www.oregon.gov/OSBEELS. 

Renewal Form

Registrant Contact Information			
First name (personal name)		Middle name or initial	Last name (family name)
If you have a Social Security number Oregon law requires that it be used. Only use a Passport number if you don't have a Social Security number.			
<input type="checkbox"/> Social Security #		OR <input type="checkbox"/> Passport #	Country issuing passport
Birth date (Mo/Day/Yr)		Where do you want correspondence mailed to?	
		<input type="checkbox"/> Home address OR <input type="checkbox"/> Business address	
Home address (include any apartment number)			Home/Personal phone #
City	State	Zip/Postal code	Home email address
Business name		Business phone #	Business fax #
Business address (include any suite number)			
City	State	Zip/Postal code	Business email address
Address for public disclosure (As per Oregon Revised Statute (ORS) Chapter 192)			<input type="checkbox"/> Same as mailing address
City	State	Zip	

Social Security Guidelines

As part of your application for an initial or renewed occupational, professional or recreational license, certification, or registration issued by OSBEELS, you are required to provide your Social Security Number to OSBEELS. This is mandatory. The authority for this requirement is ORS 25.785, ORS 305.385, 42 USC § 405 (c) (2) (C) (i), and 42 USC § 666 (a) (13). **Failure to provide your Social Security Number will be a basis to refuse to issue or renew the license, certification, or registration you seek.** This record of your Social Security Number will be used for child support enforcement and tax administration purposes (including identification) only, unless you authorize other uses of the number. Although a number other than your Social Security Number appears on the face of the licenses, certificates, or registrations issued by OSBEELS, your Social Security Number will remain on file with OSBEELS.

If, the United States Social Security Administration has not issued you a social security number, you must follow these guidelines:

- a. form must be signed by you;
- b. You are attesting to the fact that no social security number has been issued to you by the United States Social Security Administration; and
- c. are acknowledging that knowingly supplying false information under this section is a Class A misdemeanor, punishable by imprisonment of up to one year and a fine of up to \$6,250.

By providing the following signature, you are agreeing to comply with the guidelines listed above.

Signature	Date (Mo/Day/Yr)
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If requesting reinstatement from inactive or retired status, please complete the Reinstatement from Inactive or Retirement Status form available at www.oregon.gov under the "Registration" tab.

Renewal Form Continued

Please check the applicable boxes and enclose the appropriate amount

Active registration renewal: \$150.00 each profession
 PE PLS RPP

I have attached the CPD Organizational Form

I have attached the Continuing Education Request for a Grace Period form

Please refer to the Oregon Administrative Rule (OAR) 820-010-0505, 820-010-0510, OAR 820-010-0635 and OAR 820-015-0026 for additional details.

I certify that I have completed the required professional development hour (PDH) units in accordance with the applicable OARs.

Signature

Date (Mo/Day/Yr)

Certified Water Right Examiner (CWRE) renewal: \$40.00
Please note: *January 2015 will be the first scheduled audit cycle which will require 10 CWRE PDH units. These audits will reflect the 2013-2014 renewal cycles, which means the PDH units were obtained starting in 2013 and supporting documentation will be required.*

Delinquency fee per registration renewal: \$80.00 each profession
Please refer to the OARs 820-010-0505 and 820-010-0520 for further details.

PE PLS RPP CWRE

Select payment method (choose one)

Check or Money Order (payable to OSBEELS)

Cash

Amount enclosed:

Debit or Credit Card (Visa, Mastercard, Discover, or AmEx)

Total charge to card:

Card number

Exp. date

Security code*

Billing Zip/Postal code

Payment Signature (serves as payment authorization if paying by debit or credit card)

Signature

Date (Mo/Day/Yr)

The Oregon Examiner Newsletter

Please indicate how you would like to receive the OSBEELS newsletter, *The Oregon Examiner*.

Primary Address Primary Email Business Address Business Email No Newsletter

*** Debit or Credit Card Security Codes**

If submitting a payment to the OSBEELS for fees by debit or credit card, please provide the security code. These codes are a security feature that appears on the back of most Visa, MasterCard, and Discover cards, and on the front of American Express cards.

American Express Card Users: Look for the 4-digit code printed on the front of the card just above and to the right of the main card number. This 4-digit code is the card security code.

Visa, MasterCard, and Discover Card Users: Flip the card over and look at the signature box. A special 3-digit code will be located in the signature box. This 3-digit code is the card security code.

Utilizing the Question Form

The Question Form was introduced January 2013 to streamline the process through which registrants and the public can submit an inquiry to the Board or a Committee. This form helps ensure that much of the information needed for the Board or appropriate Committee to properly consider a question is provided at the time of submission, which reduces delays caused by postponing discussion due to missing details. Individuals are welcome to submit any pertinent supporting documentation with the Question Form if it may help the Board or Committee understand and address a particular situation.

Individuals are asked to submit

their questions at least two weeks prior to the next scheduled Committee meeting. Committee meetings are the second Thursday and Friday of even-numbered months. The Committee responsible for affairs regarding the topic in question will receive a copy of the Question Form and all supporting documentation. The Committee may elect to address the issue in open session, decide to seek advice from Board's legal counsel on the matter, present the question to the full Board for discussion, request additional information or clarification from the submitter, or decline to address the question. If the Board or Committee decides to seek advice from its

legal counsel, the submitter will not have the option of withdrawing their question. As a result of the advice received, the Board may decide to act upon the advice of counsel regarding the question. While OSBEELS does not provide personal legal advice to registrants or members of the public, these individuals may always seek legal advice regarding their questions, including regulatory issues, from private counsel. ■

Friendly Reminders

Registration renewal

Not sure if your registration(s) is current? Visit the OSBEELS website at www.oregon.gov/osbeels and click on the "Find a Licensee" link to confirm your registration(s) status.

Employer Checks

If your employer sends a check for your renewal, please ensure that it includes your registration number(s) and your Continuing Professional Development Organizational Form

is attached. If these items are not included, it will delay the renewal process.

Social Security Number

To comply with child support enforcement and tax administration law, OSBEELS requires that all applicants and licensees provide their Social Security numbers. The Oregon Revised Statute (ORS) 25.785, specifically requires that the Social Security number be recorded on an application for,

or form for renewal of, a license, certificate or registration. If you have not been issued a Social Security number, OSBEELS will accept a written certification to fulfill this requirement.

Deceased Registrants

If you are aware of a registrant who has passed on, please call (503) 362-2666. OSBEELS would like to avoid sending renewal notices and other communications to the families. ■



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 Suite 220 email: osbeels@osbeels.org
 Salem, Oregon 97301 web: www.oregon.gov/osbeels



OSBEELS is on Facebook! The most up-to-date information on exams, applications, audits, renewals, and more!
www.facebook.com/osbeels

To receive the newsletter electronically, please provide an email address below. If you would prefer to receive the newsletter in print rather than electronically or at a different mailing address, please provide the preferred mailing address below. If you are already receiving the newsletter in the preferred format and at the correct location, submission of this form is not necessary.

You may return this form by email to osbeels@osbeels.org, by fax to (503) 362-5454 or by mail to the address listed above. Please note, the contact information in which Board correspondence is sent will not be changed by submitting this form. Please utilize the Name/Address Change form to comply with Oregon Administrative Rule (OAR) 820-010-0605.

Registrant Information			
First name (personal name)	Middle name or initial	Last name (family name)	
Email Address		Registration or certificate number, if applicable	
To receive the print edition of The Oregon Examiner, please complete the information below.			
<input type="checkbox"/> Home <input type="checkbox"/> Business			
Mailing address (include any apartment/suite number)			
City	State or Province	Zip/Postal code	Country