



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

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## PE exam for software engineering

The National Council of Examiners for Engineering and Surveying (NCEES) will begin offering a Principles and Practice of Engineering examination in software engineering in April 2013. The examination was developed through the cooperative efforts of the Institute of Electrical and Electronics Engineers (IEEE)-USA, the IEEE Computer Society, the National Society of Professional Engineers (NSPE) and the Texas Board of Professional Engineers and is the culmination of three years of research and design.

This examination was created to provide a path to licensure for software engineers to protect the public which interacts with their work on a daily basis, said Dr. Phil Laplante, the volunteer chair of the software engineering PE exam development committee. "Software engineers develop certain software that is either embedded in physical systems that can affect the health, safety and

welfare of the public (elevators, traffic controllers, power plants, automobiles) or that exists in systems that have the potential to expose or alter critical personal or financial information (medical records, pension accounts, credit card accounts)," Laplante said. "Therefore, it is imperative that the public be provided the same statutory assurances and protections that are afforded for other types of engineered systems through licensure."

As with other engineering disciplines, licensure will benefit not only the public, but the software engineering community. "It is certainly a mark of distinction to have been able to demonstrate that the engineer has proven to have a minimal competency in software engineering and has done so via the same licensing mechanism as other engineers," Laplante said.

The design process began in 2009

See **SOFTWARE**, Page 3

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## Biennial renewal rates reduced

The Oregon State Board of Engineering and Land Surveying (OSBEELS) has reduced the biennial renewal fees for professional engineers, professional land surveyors and registered professional photogrammetrist, effective June 2012. Biennial renewal of these registrations is now \$150 every two years.

The Board increased biennial renewal rates in Spring of 2008 to avoid a deficit in the Board's opera-

tional budget. Fees were raised from \$80 biennially to \$180 biennially. A delinquency fee of \$80 was also added.

During the February 2012 Board meeting, the Finance Committee members determined that fee rates could be lowered due to the Board's improved financial position. Financial position was determined through analysis of current fund balance, recent trends in industry and the state of the economy as a whole. The

Board approved this change during its March 2012 meeting.

The biennial renewal for certified water rights examiners will remain at \$40. It was not raised with the other fees in 2008. The delinquency fee will also remain in place. It is assessed on the first day following the expiration date of each registration or certification for each biennial renewal period in which payment or continuing professional development organizational form is not submitted. ■

## Last administration of the WA SEIII exam

Following the October 2011 examination administration, OSBEELS discontinued offering the Washington Structural III (WA SEIII) examination and began offering only the National Council of Examiners for Engineering and Surveying (NCEES) 16-hour Structural Engineering (SE) examination. Individuals seeking registration as a professional engineer especially qualified in structural engineering are required to comply with the progressive experience requirements outlined in Oregon Administrative Rule

(OAR) 820-010-0417.

The NCEES 16-hour SE examination is offered in April and October. The examination is divided into two eight-hour components (vertical and lateral) which are offered on successive days. Examinees must pass both components. If one component is not passed, the examinee may apply for readmission to sit for the failed component during the next available examination administration. For information regarding the content of the examination components, please visit the NCEES Web site, [www.ncees.org](http://www.ncees.org). ■

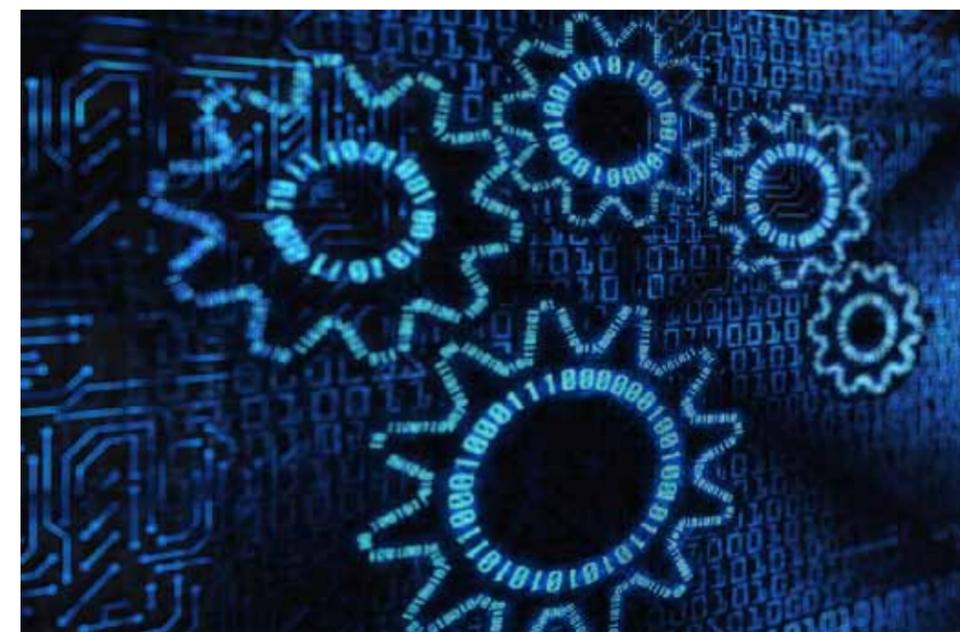
The Board would like to thank the OSBEELS SE registrants who assisted with scoring and grading the WA SEIII examination:

- Ed Huston (Exam Team Coordinator)
- Ron Kernan
- Shelly Duquette
- Rick Amodeo
- Bob Scherzinger
- Philip Boultinghouse
- Bob Walker
- Amit Kumar
- Lane Jobe
- Grant Davis
- Sue Frey
- Nathan Wallace
- Lisa Buellesbach
- Tonya Halog

## SOFTWARE, from front page

when NCEES approved the development of a software engineering examination after receiving requests from 10 state licensing boards. For the process to move forward, there also needed to be at least one ABET accredited program in software engineering and a technical society needed to agree to a development partnership and its board of directors needed to approve the examination, according to Tim Miller, director of Examination Services at NCEES. One other criterion is that the new examination subject matter cannot be covered in an existing examination, Miller said.

Once those criteria were met, the examination development committee began the Professional Activities and Knowledge Study (PAKS), which compiles a list of projected examination subjects and then conducts a survey of engineering professionals, professional societies, academia, government personnel and field practitioners, Miller said. The survey asks the participants to rate the potential subjects in order of importance. The replies are analyzed, discussed and presented to an oversight committee comprised of state licensing board members, Miller said. The specifications used for the new software engineering examination were approved in Fall 2011, following which, the actual examination writing



process began.

### OSBEELS consideration

The Oregon State Board of Examiners for Engineering and Land Surveying (OSBEELS) will be considering the addition of software engineering to the current list of qualification branches. Individuals interested in this addition can petition the Board to amend the list in accordance with Oregon Administrative Rule (OAR) 820-010-0450, specifically Subsection 2, which states:

*Persons desiring to be registered as a professional engineer naming a branch other than one listed under section (1) of this rule as one in which the individual is especially qualified may petition the Board to amend the list. Procedures are designated in the Model Rules of Procedure under the Administrative Procedure Act, OAR 137-001-0070. Information in the*

petition shall include:

- (a) The public need for recognition of the new discipline;
- (b) The number of potential registrants that would be affected;
- (c) Whether the new branch is a specialty under an already recognized discipline; and
- (d) Recommendations for examination sources in that discipline.

Petitions can be made in person during the August 10, 2012 Examinations and Qualifications (E&Q) Committee meeting at 9:00 a.m. The meeting will be held at the Board office located at 670 Hawthorne Street SE, Salem, OR. Individuals can also mail a written petition to the Board office address or submit their petition by email to [osbeels@osbeels.org](mailto:osbeels@osbeels.org).

For more information on the PE software examination, visit [ncees.org/exams](http://ncees.org/exams). ■

# OSBEELS reaches out to students

Getting more children educated and interested in fields in science, technology, engineering and math (STEM) is a current area of emphasis in educational departments across the nation due to an increased need for these areas of expertise in the workforce. The Oregon State Board of Examiners for Engineering and Land Surveying (OSBEELS) did its part to help pique this interest in middle and high school-aged students when OSBEELS representatives participated in a STEM-focused event at Umpqua Community College (UCC) on May 3, 2012.

The event brought together professionals from various medical, technical, scientific and engineering fields to engage students in discussion and hands-on projects relating to careers in STEM subjects.

OSBEELS provided staff from its registration department and Board member John Seward, PE, who works for the Oregon Department of Forestry. Seward talked to students about his experiences as a registered professional engineer and about how they can start moving towards careers in engineering. The registration department staff, consisting of Matt Bryan, Jennifer O'Neill and Amanda Sloan, provided a hands-on project for students to give them practice in



*Matt Bryan, with OSBEELS' Registration Department, helps Walker Wooley, 12, from North Douglas Middle School construct a ping pong ball launcher during STEM Day activities at Umpqua Community College on May 3. This is one of many events OSBEELS participates in which encourages students' interest in engineering-related fields.*

educational plan since 2009. According to the ODE's meeting minutes from January, the education framework has been developed and is in the approval process. The ultimate goal is to implement the STEM educational plan and provide STEM centers throughout the state to monitor and assist with maintaining the standards of the proposed curriculum.

## At the national level

According to a report given to the President of the United States by his Council of Advisors on Science and Technology in February entitled "Engage to Excel", the number of students graduating college

See **STEM**, Page 12

the critical thinking and problem solving skills needed by engineers. The project took paint stirrers, a paper cup, plenty of duct tape and ping pong balls and transformed these items into a launcher. While staff provided examples to get the ball rolling, students were encouraged to use their own ideas and designs to build the best launcher.

"OSBEELS was able to introduce students, who have a wide range of interests and age groups, to the fields of engineering and surveying, while keeping it interesting and entertaining,"

said Clay Baumgartner, an engineering instructor at UCC and one of the coordinators of the recent STEM event. "OSBEELS was able to make the exercise fun while intertwining the connection to education and licensing. Having OSBEELS involved helped make this a successful event for students and the college."

A number of studies have been done or are being done right now which analyze the impact of early introduction to STEM subjects on a

student's likelihood of pursuing higher education in a STEM field. In a study from The Opportunity Equation, an organization that promotes excellence and equity in mathematics and science education, the founder and director of Engineering is Elementary, Christine M. Cunningham, explained that the earlier children get involved in STEM fields, the more likely they are to embrace them. "Children are born engineers – they like to design their own creations, figure out how things work, and take things apart," she wrote. The "tapping of natural curiosity" she describes is

exactly what educational institutions such as UCC are trying to achieve.

"Education, introducing students to the diverse field of engineering and surveying, and encouraging students at an early age to focus on math and science is important to the professions of engineering and land surveying," Baumgartner said.

## At the state level

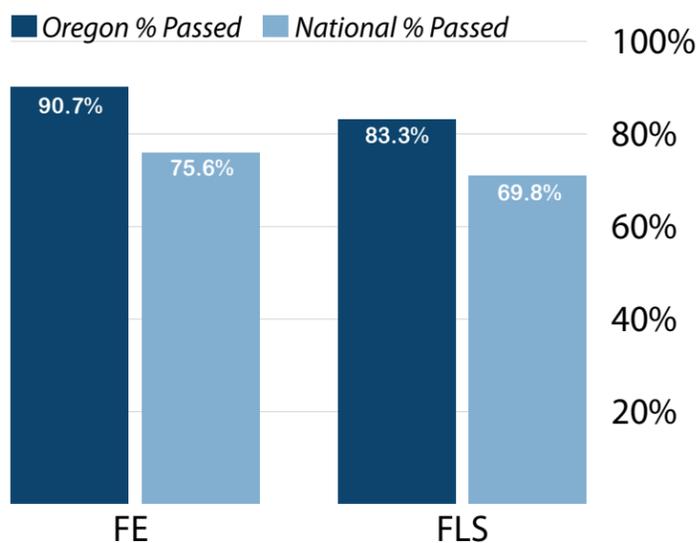
In Oregon, the Department of Education has been developing a statewide STEM



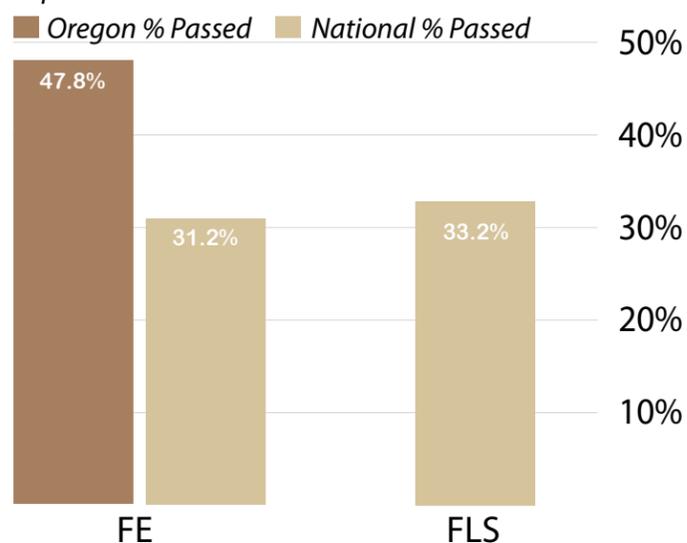
*Katelynn Corrigan, 12, from North Douglas Middle School, builds her launcher.*

# Examination Statistics April 2012

April 2012 Fundamentals Examination Statistics  
First Time Takers

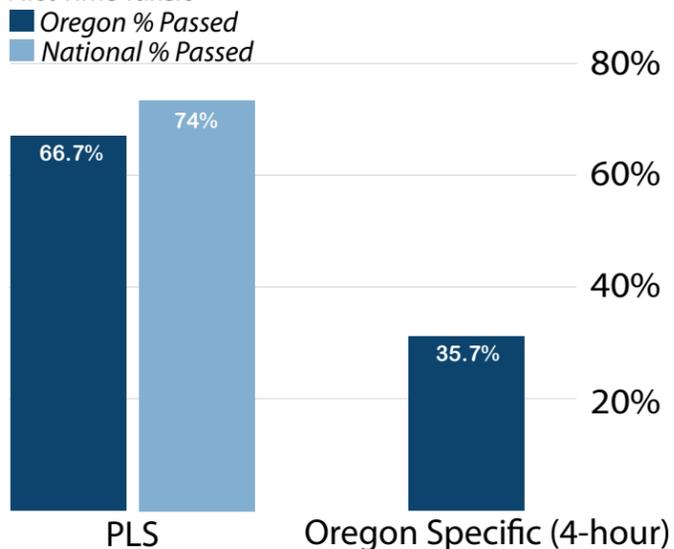


April 2012 Fundamentals Examination Statistics  
Repeat Takers

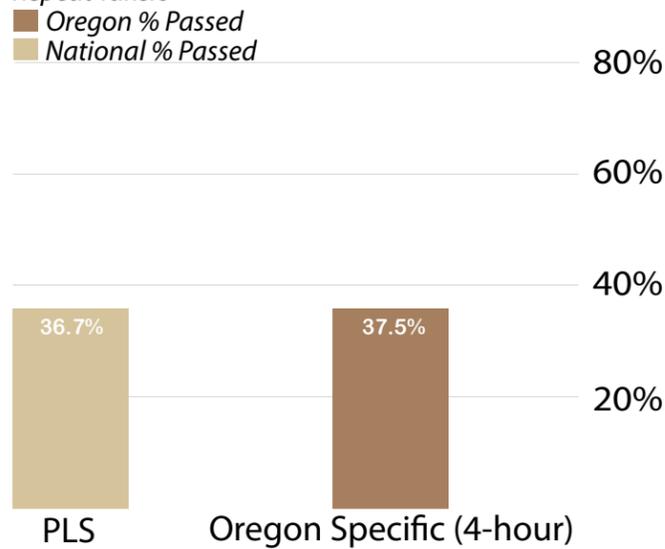


There were no repeat takers with OSBEELS for the FLS examination.

April 2012 Professional Surveying Examination Statistics  
First Time Takers

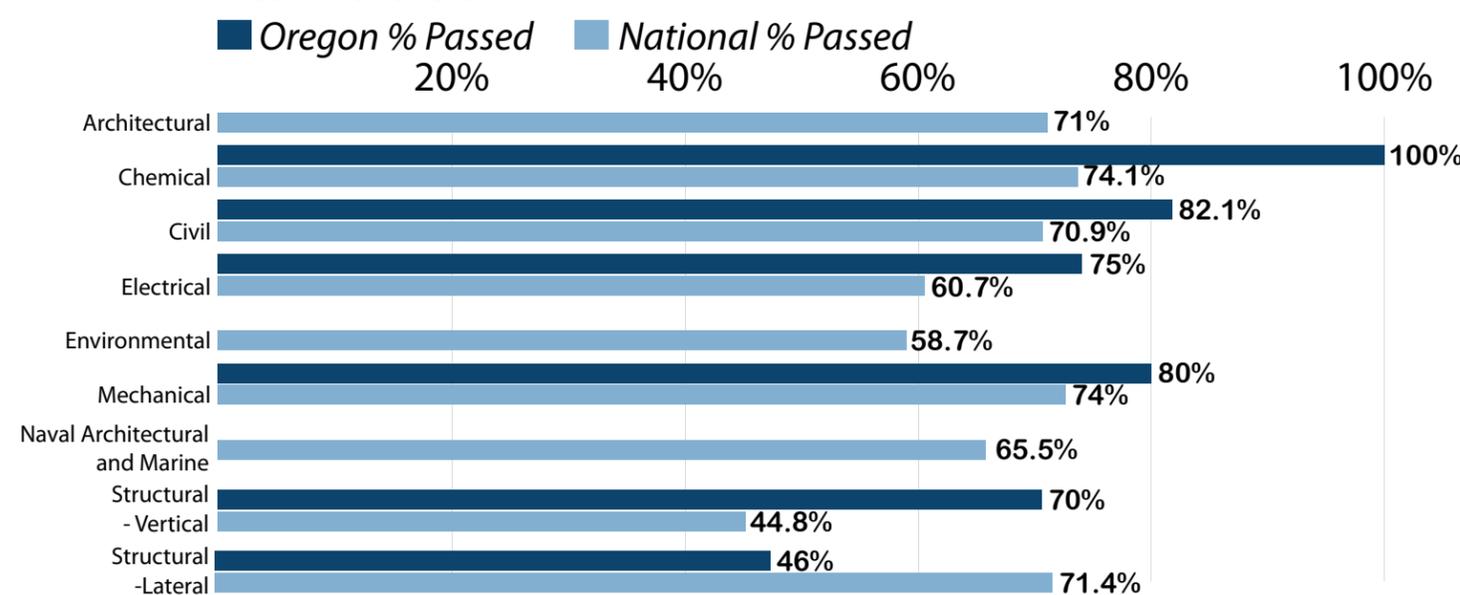


April 2012 Professional Surveying Examination Statistics  
Repeat Takers



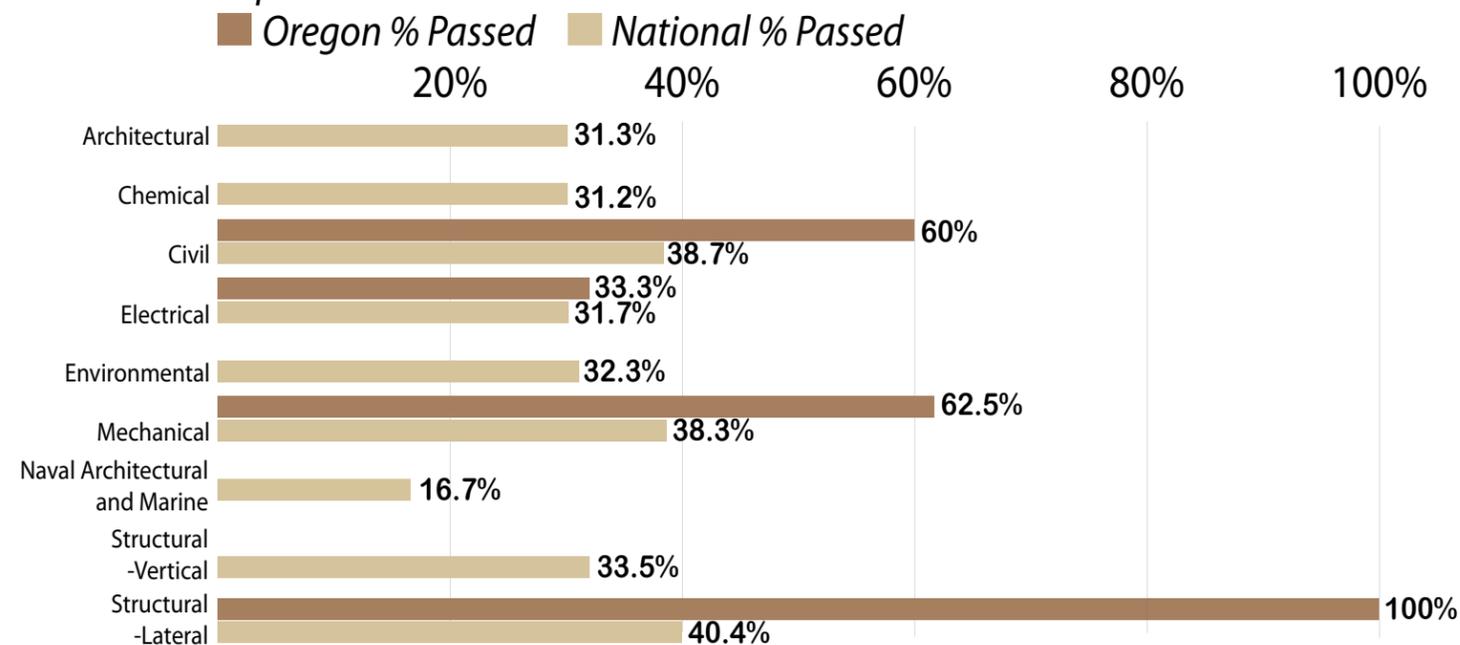
There were no repeat takers with OSBEELS for the NCEES PLS examination.

April 2012 Professional Engineering Examination Statistics  
First Time Takers



There were no first time takers with OSBEELS for the following professional engineering examinations: Architectural, Environmental and Naval Architectural and Marine.

April 2012 Professional Engineering Examination Statistics  
Repeat Takers



There were no repeat takers with OSBEELS for the following professional engineering examinations: Architectural, Chemical, Environmental and Naval Architectural and Marine.

# Investigation and Enforcement

## Law Enforcement Cases with Sanctions

January 1, 2012 – June 1, 2012

### 2596 – Craig B. Anderson

The Board issued a Final Order against Craig B. Anderson, PE, finding that he participated in the unlicensed practice of engineering. Anderson co-signed by using “PE, Senior Engineer Associate” on a December 2007 proposal for a wastewater treatment facility for the city of Halfway, Oregon. Anderson said that his Oregon comity application was in process during that timeframe and was later approved on March 9, 2010. Anderson entered into a settlement agreement to pay a \$500 civil penalty for violating ORS 672.020(1) and ORS 672.045(1),(2).

### 2599 – George Frauendiener

The Board issued a Final Order against George Frauendiener finding that he participated in the unlicensed practice of engineering. Frauendiener as Hicorp Steel sold a steel building that also required a professional engineer to design the footings and site plans. The investigation found that Frauendiener twice invoiced for engineering

services as the result of his contract with a professional engineer. Frauendiener entered into a settlement agreement to pay a \$500 civil penalty for violating ORS 672.007(1)(a), ORS 672.020(1), ORS 672.045(1),(2), and OAR 820-010-0720(1).

### 2614 – Daniel W. Baker

The Board issued a Final Order against Daniel W. Baker, PLS, CWRE finding that he failed to file a map of survey within 45 days of setting monuments and failed to return a corrected map of survey within 30 days. Baker did not dispute the allegations that he set monuments for a partition plat and for a boundary survey and did not file maps of survey. Baker claimed difficulties with signatures as a reason for these violations. The Board pointed out that other surveyors had found Baker’s unrecorded monuments which created confusion. Baker entered into a settlement agreement to pay a \$500 fine for each offense, for a total of \$1,000, for violating ORS 209.250(1), ORS 209.250(4)(b), and OAR 820-030-0060.

### 2616 – Leland A. MacDonald

The Board issued a Final Order against Leland A. MacDonald, PLS, CWRE,

finding that he failed to follow proper right-of-entry notification procedures. While surveying one property, MacDonald entered an adjoining property without providing prior notice of entry. MacDonald entered into a settlement agreement to pay a \$250 civil penalty for violating ORS 672.047(4).

### 2673 – In Ho Hong

The Board issued a Default Order against In Ho Hong, PE, finding that he failed to maintain records, cooperate with an audit and for signing a renewal form certifying he had completed the required PDH units when he had not. Hong did not respond to numerous attempts by OSBEELS to contact him regarding a CPD audit. He responded to OSBEELS Law Enforcement personnel’s correspondence regarding disciplinary action, but still did not submit required documentation pertaining to PDH completion. Hong did not request an informal conference or a hearing, so a default order was issued. The Default Order directs Hong to pay a \$3,000 civil penalty and suspends his license for 90-days, with the suspension ending June 11, 2012, for violating OAR 820-010-0635(1) and (5), and OAR 820-

020-0015(7).

### 2685 – Vuppuluri Dakshina Murty

The Board issued a Final Order against Vuppuluri Dakshina Murty, PE, finding that he failed to maintain records, cooperate with an audit and for signing a renewal form certifying he had completed the required PDH units when he had not. Murty was under the impression that teaching Mechanical Engineering at the University of Portland would count towards his PDH unit. Repetitive teaching of college courses as part of regular employment does not fulfill PDH units. After nearly a year of OSBEELS investigators working with Murty, his CPD documentation was submitted and he was found compliant. The Board is awaiting Murty to sign the proposed settlement agreement which involves paying a \$500 civil penalty for violating OAR 820-010-0635(5) and OAR 820-020-0015(7)(8).

### 2695 – Johann D. Swart

The Board issued a Final Order against Johann D. Swart, PLS, CWRE, finding that he failed to obtain PDH units in compliance with CPD requirements. Swart claimed he had no opportunities to

pursue PDH units as he was living in the Bahamas and said he had requested “inactive” status for his registrations. Swart said he signed the renewal form in error, but admitted to not providing CPD documentation. Swart entered into a settlement agreement to pay a \$2,000 civil penalty and to place his registrations in “inactive” status for violating ORS 672.200(4), OAR 820-010-0635(1), (5), OAR 820-020-0015(7), and OAR 820-020-0025(1). He has a five-year window to return to active status dependent on his application and qualified CPD documentation.

### 2703 – Chris T. Palmer

The Board issued a Final Order against Chris T. Palmer, PLS, PE, CWRE, finding that he failed to cooperate with the Board and provide documentation of compliance with continuing professional development (CPD) requirements. Palmer stated that he did not complete the required professional development hours (PDH), but he was retiring from professional practices. Palmer entered into a settlement agreements to retire his PLS and PE registrations without reinstatement, including his CWRE certification, to pay a \$1,000 civil penalty and to close-out any outstanding projects within two months for violations of ORS 672.200(4), OAR 820-010-0635(1), (5), OAR 820-015-0026(1), OAR 820-020-0015(7), and OAR 820-020-0025(1).

### 2720 – Tim H. Thex

The Board accepted Tim H. Thex’s, PE, voluntary surrender of his license in response to allegations of failure to provide documentation of completion of CPD requirements in violation of ORS 672.200(4), OAR 820-010-0635(1), (5), OAR 820-020-0015(7), and OAR 820-020-0025(1). He admitted to OSBEELS that he hadn’t fulfilled his CPD requirements because he wasn’t practicing engineering and was currently 100% disabled. He returned his pocket card to OSBEELS with the request to surrender his license. The Board accepted the surrender and closed the case.

See CASES, Page 15

## Quick Fact

Did you know that OSBEELS law enforcement personnel have handled 73 cases of CPD delinquency since 2009. 48 of those cases ended with disciplinary actions ranging from a \$100 civil penalty to permanent retirement of the individual’s registration.

OREGON STATE BOARD OF EXAMINERS FOR ENGINEERING AND LAND SURVEYING

# 2012 OSBEELS SYMPOSIUM

SEPTEMBER 21st

at the   
**Salem Conference Center**

**\$80**  
 Includes: Lunch, registration materials,  
 and refreshment breaks.  
**Registrants earn 1  
 PDH for every 1 hour  
 in attendance.**

ENGINEERING

Resilient State for M9.0 CSZ Earthquake: Oregon's 50-year vision  
 Kent Yu, PE  
 Althea Rizzo, Ph.D.

Oregon's Infrastructure Report Card  
 Christian Steinbrecher, PE  
 Designing Fire Protection Systems  
 Oscar Zuniga, PE  
 Derek Zwagerman, PE

Risk Assessment for Capital Improvement Projects  
 Christa Overby, PE

LAND SURVEYING

Use of Open Source GIS Software for Surveying Applications  
 Mason Marker, PLS

NAD83(CORS96) Epoch 2002.00 Transition to NAD83(2011) Epoch 2010.00  
 Mark Armstrong, PLS

Double Monumentation  
 Dennis Mouland, PLS (AZ)

To Accept or Not To Accept: That is the Question  
 Dennis Mouland, PLS (AZ)

PHOTOGRAMMETRIC MAPPING

HB3316 Oregon Qualification Based Selection Law  
 Chris Aldridge, RPP

Application of Photogrammetric Techniques to ALTA/ACSM Surveys  
 Mitchell Duryea, PLS

Laser Scanning - Today and Tomorrow  
 Marcus Reedy, PLS

Engineering Applications of Aerial Imagery and LiDAR  
 Mark Liebe, Ph.D., PE

OSBEELS

Professional Development & Audits  
 Tina Sorensen  
 Amelia Volker

Overview of Current Law Enforcement Issues  
 Allen McCartt  
 J.R. Wilkinson

Professional Ethics and Practices  
 Susan Newstetter, PLS  
 Mitchell Duryea, PLS

Updates on Surveying Narratives and Right-of-Entry Law Changes  
 Susan Newstetter, PLS  
 Dan Linscheid, PLS

**LUNCHEON/KEYNOTE ADDRESS**

Deepwater Horizon Disaster/Industrial Exemptions Task Force - Gene Dinkins, PE, PLS (SC), NCEES President-Elect

OREGON STATE BOARD OF EXAMINERS FOR ENGINEERING AND LAND SURVEYING

## 2012 OSBEELS SYMPOSIUM - September 21, 2012 REGISTRATION FORM

**Registrant Information**

Name: \_\_\_\_\_  
 Preferred Name on Badge: \_\_\_\_\_  
 Organization: \_\_\_\_\_  
 Special Accommodations: \_\_\_\_\_ Dietary Needs: \_\_\_\_\_  
**Contact Information**  
 Mailing Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Email: \_\_\_\_\_  
 PE  LS  RPP  Other: \_\_\_\_\_

**Hotel Information**

The Grand Hotel, 201 Liberty Street SE, Salem, OR 97301 / Toll Free: 877-540-7800 / FAX: 503-589-1715 / www.grandhotelsalem.com. **RESERVATIONS METHOD:** Rooms are subject to availability of rooms at the time the reservation is made. Please contact the hotel for more information. Call the toll free number to get the group rate, 877-540-7800. Let them know you're a part of the OSBEELS Symposium in order to receive the special rate. Reservations are based upon availability at the time of the reservation. **ACCESSIBILITY:** The facilities are accessible to persons with disabilities. Please request ahead of time if auxiliary aids and/or services are needed.



**Salem Conference Center** • Choose Four Presentations to Attend  
 200 Commercial St. SE • Choose One Presentation For Every Session  
 Salem, OR 97301

- 7:30 a.m. to 8:00 a.m. Registration
- 8:00 a.m. to 8:20 a.m. Opening Remarks: *Dan Linscheid, OSBEELS Board President*
- Session 1**  
 8:30 a.m. to 9:50 a.m. (Choose One Presentation)  
 **Engineering:** Resilient State for M9.0 CSZ Earthquake-Oregon's 50-year Vision - *Kent Yu, PE, Althea Rizzo, Ph.D.*  
 **Land Surveying:** Use of Open Source GIS Software for Surveying Applications - *Mason Marker, PLS*  
 **Photogrammetric Mapping:** HB3316 Oregon Qualification Based Selection Law - *Chris Aldridge, RPP*  
 **OSBEELS:** Professional Development and Audits - *Tina Sorensen, Amelia Volker*
- Session 2**  
 10:00 a.m. to 11:20 a.m. (Choose One Presentation)  
 **Engineering:** Oregon's Infrastructure Report Card - *Christian Steinbrecher, PE*  
 **Land Surveying:** NAD83(CORS96) Epoch 2002.00 Transition to NAD83(2011) Epoch 2010.00 - *Mark Armstrong, PLS*  
 **Photogrammetric Mapping:** Application of Photogrammetric Techniques to ALTA/ACSM Surveys - *Mitchell Duryea, PLS*  
 **OSBEELS:** Overview of Current Law Enforcement Issues - *Allen McCartt, J.R. Wilkinson*
- 11:30 a.m. to 1:00 p.m. **Luncheon/Keynote Address:** Deepwater Horizon Disaster/Industrial Exemptions Task Force - *Gene Dinkins, PE, PLS (SC) NCEES President-Elect*
- Session 3**  
 1:10 p.m. to 2:30 p.m. (Choose One Presentation)  
 **Engineering:** Designing Fire Protection Systems - *Oscar Zuniga, PE, Derek Zwagerman, PE*  
 **Land Surveying:** Double Monumentation - *Dennis Mouland, PLS (AZ)*  
 **Photogrammetric Mapping:** Laser Scanning Today and Tomorrow - *Marcus Reedy, PLS*  
 **OSBEELS:** Professional Ethics and Practices - *Susan Newstetter, PLS, Mitchell Duryea, PLS*
- Session 4**  
 2:40 p.m. to 4:00 p.m. (Choose One Presentation)  
 **Engineering:** Risk Assessment for Capital Improvement Projects - *Christa Overby, PE*  
 **Land Surveying:** To Accept or Not To Accept: That is the Question - *Dennis Mouland, PLS (AZ)*  
 **Photogrammetric Mapping:** Engineering Applications of Aerial Imagery and LiDAR - *Mark Liebe, Ph.D., PE*  
 **OSBEELS:** Updates on Survey Narratives and Right of Entry Law Changes - *Susan Newstetter, PLS, Dan Linscheid, PLS*

**Select payment method (choose one) Fee is \$80 and includes lunch, registration materials, and refreshment breaks. Registrants earn 1 PDH for every 1 hour in attendance.**

Check of 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) \_\_\_\_\_

**To Register...**  
 Complete and return form by August 31!  
 Fax completed registration form to:  
 503-362-5454  
 Email the registration form to:  
 osbeels@osbeels.org  
 or mail the registration form to:  
 OSBEELS  
 670 Hawthorne Ave. SE  
 Suite 220  
 Salem, OR 97301  
 Forms can also be found on the OSBEELS Web site at www.oregon.gov/OSBEELS  
 For questions call 503-362-2666  
**Registration deadline is August 31, 2012**

**Emergency Contact Information**

Name: \_\_\_\_\_  
 Relationship: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Address: \_\_\_\_\_

## NCEES, ACEC end partnership

The NCEES Board of Directors has opted to end the partnership with the American Council of Engineering Companies (ACEC) regarding the operation of the Registered Continuing Education Program (RCEP). NCEES will transfer to ACEC all elements of RCEP. Upon completion of the transfer, RCEP will continue to operate as a service offered by ACEC. This decision was

made official by a letter to ACEC on February 24, 2012 and the transition began immediately.

This action by the NCEES Board of Directors was based upon the desire to provide a clearer separation between the mission of NCEES to serve the member boards and ACEC's mission to serve its member companies and to eliminate any potential conflicts of interest by either

organization.

During its September 11, 2012 Rulemaking Hearing, the Board will consider proposed language to delete subsection 6(b) of OAR 820-010-0635. Registrants may continue to obtain PDH units recorded with ACEC as encompassed through subsection 6(a) since ACEC is a technical society listed in OAR 820-001-0000(4)(b). ■

## NCEES seeks licensed volunteers for FE, FLS studies

NCEES is currently seeking volunteers who are licensed professional engineers, engineer interns, professional land surveyors or land surveyor interns to participate in standard-setting studies for the Fundamentals of Engineering (FE) and Fundamentals of Land Surveying (FLS) examinations. To qualify, volunteers must have taken and passed the NCEES FE or FLS examinations.

Selected volunteers will review and rate the difficulty of questions that will be included on the updated FE and FS examinations, which will be administered as a computer-based examinations beginning in 2014. The volunteers' responses will help NCEES determine the passing score for the FE and FLS examinations.

The FE standard-setting study will take place September 14-15, 2012,

in Atlanta, Georgia. The FLS study will take place July 27-28, 2012, also in Atlanta. Travel and lodging expenses will be paid by NCEES.

To volunteer for the FE examination, complete a short online questionnaire at [ncees.org/FEstandards](http://ncees.org/FEstandards).

For the FLS examination, the questionnaire is available at [www.ncees.org/FSstandards](http://www.ncees.org/FSstandards). ■

### STEM, from Page 5

with STEM field degrees has been dropping for the past decade while the number of positions needing individuals with these degrees is rising. The report went on to say that it's not just these fields that need new minds, it's the entire country. "The need for STEM knowledge extends to all Americans,"

the report reads. "The products of science, technology, engineering and mathematics play a substantial and growing role in the lives of all Americans." The report's analysis is that we will need nearly 1 million more graduates with STEM degrees in the coming decade than we are capable

of producing at America's current rate of STEM field graduations. In order to get to these numbers, students need to be interested and engaged in STEM fields at younger ages which America and individual states are working to achieve through a number of grants and education-related legislation. ■

### Renewal Form

If requesting reinstatement from inactive or retired status, please complete the *Reinstatement from Inactive or Retirement Status* 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	Registration #
Birth date (Mo/Day/Yr)	Where do you want correspondence mailed to? <input type="checkbox"/> Home address OR <input type="checkbox"/> Business address		
Mailing 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

### 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 ISC § 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:

- form must be signed by you;
- You are attesting to the fact that no social security number has been issued to you by the United States Social Security Administration; and
- 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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(Continued on page 14)

(Continued from page 13)

Please check the applicable boxes and enclose the appropriate amount	
<input type="checkbox"/> Active registration renewal: \$150.00 each profession <input type="checkbox"/> PE <input type="checkbox"/> PLS <input type="checkbox"/> RPP <input type="checkbox"/> I have attached the CPD Organizational Form	Please refer to the Oregon Administrative Rule (OAR) 820-010-0505 and 820-010-0510 for further 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)
<input type="checkbox"/> Certified Water Right Examiner (CWRE) renewal: \$40.00 No PDH units are required as a condition of renewal for a CWRE certification.	<input type="checkbox"/> Delinquency fee per registration renewal: \$80.00 per profession Please refer to the OARs 820-010-0505 and 820-010-0520 for further details. <input type="checkbox"/> PE <input type="checkbox"/> PLS <input type="checkbox"/> RPP <input type="checkbox"/> CWRE <input type="checkbox"/> I have attached the CPD Organizational Form

Select payment method (choose one)			
<input type="checkbox"/> Check or Money Order (payable to OSBEELS)	<input type="checkbox"/> Cash	Amount enclosed:	
<input type="checkbox"/> 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)	

**\* 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. This code is a three or four-digit number which provides a cryptographic check on the information embossed on the card.

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.

**CASES, from Page 9**

**2734 – Michael Andrew Kath**

The Board issued a Final Order against Michael Andrew Kath, PE, finding that he provided engineering recommendations and engaged in the act of engineering before he was licensed. Kath co-authored a geotechnical report for a college campus build project which provided engineering recommendations and signed the report as “Mike Kath, EIT, Senior Engineer.” Kath said he was directed to do so by a superior. Kath’s supervisor was held responsible for the unlicensed practice and that charge was

dropped. The civil penalty for signing under a false title was dropped because the situation is now rectified as Kath did not sign anything else with an engineering title until he was duly licensed. Kath entered a settlement agreement to pay a \$250 civil penalty for violating ORS 672.020(1), ORS 672.045(1), (5) and (6), and ORS 672.020(1).

**2750 – Shaun Patrick Martin**

The Board issued a Final Order against Shaun Patrick Martin, EIT, finding that he engaged in the practice of engineering without a license and forged an embossed seal on a reference letter. Martin

prepared a Professional Letter of Reference for a colleague addressed to the Missouri Board for Architects, Professional Engineers, Professional Land Surveyors and Landscape Architects. In this letter, Martin listed his title as Civil Engineer and forged an impression of the required seal on the letter. Martin admitted that he knowingly performed both of these acts. Martin entered into a settlement agreement to pay a \$1,000 civil penalty and suspension of his Engineer-in-Training license for 90 days, ending on Aug. 8, 2012 for violating ORS 672.020(1), ORS 672.41(1) and (2), ORS 672.007(1)(a)(b), and OAR 820-020-0025(1).

## Friendly Reminders

### Registration renewal

Not sure if your registration(s) is current? Visit OSBEELS Web site at [www.osbeels.org](http://www.osbeels.org) and click on the “Find a Licensee” link to confirm your registration(s) status.

If you would like to renew your registration(s), mail the form on page 13 to the OSBEELS office at 670 Hawthorne Avenue SE, Suite 220, Salem, OR 97301

### Employer Checks

If your employer sends a check for your renewal, please ensure that it includes your registration number(s)

and certification of Continuing Professional Development requirements. 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 contact OSBEELS at (503) 362-2666. OSBEELS would like to update its records and avoid sending renewal notices and other communications to the families.