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 operational 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.

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 Keman
- Shelly Duquette
- Rick Amodeo
- Bob Scherzinger
- Philip Boultinhouse
- Bob Walker
- Amit Kumar
- Lane Jobe
- Grant Davis
- Sue Frey
- Nathan Wallace
- Lisa Buillesbach
- 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.

For more information on the PE software examination, visit 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 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 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...
Examination Statistics

April 2012

April 2012 Fundamentals Examination Statistics
First Time Takers

- Oregon % Passed
- National % Passed

FE
FLS

April 2012 Repeat Takers
First Time Takers

- Oregon % Passed
- National % Passed

FE
FLS

April 2012 Professional Surveying Examination Statistics
First Time Takers

- Oregon % Passed
- National % Passed

April 2012 Repeat Takers
First Time Takers

- Oregon % Passed
- National % Passed

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

April 2012 Professional Engineering Examination Statistics
First Time Takers

- Oregon % Passed
- National % Passed

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

- Oregon % Passed
- National % Passed

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).

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.

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. The Board is awaiting Mury 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).

2695 – Johann D. Swart

The Board issued a Final Order against Johann D. Swart, PLS, CWRE, finding that he failed to provide required documentation for a wastewater treatment facility for the city of Halfway, Oregon. Swart failed to file a map of survey. Swart admitted in error, but admitted to not providing CPD documentation. Swart entered 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.

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.
## 2012 OSBEELS SYMPOSIUM

**September 21st**

**at the Salem Conference Center**

**REGISTRATION FORM**

![Image](image.png)

### Registrant Information

**Name:**

**Preferred Name on Badge:**

**Organization:**

**Special Accommodations:**

**Dietary Needs:**

### Contact Information

**Mailing Address:**

**City:**

**State:**

**Zip:**

**Phone:**

**Email:**

**PDH for every 1 hour in attendance.**

**Price:** $80

Includes: Lunch, registration materials, and refreshment breaks.

Registrants earn 1 PDH for every 1 hour in attendance.

### Hotel Information


**Reservations:**

- Phone: 877-540-7800
- Email: reservations@grandhotelsalem.com
- Website: www.grandhotelsalem.com
- Address: The Grand Hotel, 201 Liberty Street SE, Salem, OR 97301

**Parking:**

- Salem Conference Center
- Free parking available in the garage next to the Salem Conference Center

### Special Accommodations

Dietary Needs:

**Name:**

**Address:**

**City:**

**State:**

**Zip:**

**Phone:**

**Email:**

### Terms and Conditions

- Registration deadline is August 31, 2012.
- Forms can also be found on the OSBEELS Website at www.oregon.gov/OSBEELS.

### ACOGIST

- The facilities are accessible to persons with disabilities. Please request ahead of time if auxiliary aids and/or services are needed.

### ACCESSIBILITY

- The Grand Hotel is located in an easily accessible location with ample parking.

### RESERVATIONS

- Reservations are based upon availability at the time of reservation. Please contact the hotel for more information.

### Emergency Contact Information

**Name:**

**Relationship:**

**Phone:**

**Address:**

- For questions, call 503-362-2666.
- Registration deadline is August 31, 2012.

### Select payment method (choose one)

- **Check**
- **Debit or Credit Card**
- **Payable to OSBEELS**

- **Amount enclosed:**

- **Address:**

- **City:**

- **State:**

- **Zip:**

- **Phone:**

- **Email:**

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

- **Date:**

- **Signature:**

### To Register...

- Complete and return form by August 31!

- **Fax completed registration form to:** 503-362-5434

- **Email the registration form to:** nboseels@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 Website at www.oregon.gov/OSBEELS.

- For questions, call 503-362-2666.
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 FLS 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. For the FLS examination, the questionnaire is available at www.ncees.org/FLSstandards.

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.

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 657.875, CRS 335.305,42 USC § 405(e)(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:

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) ___________________________
The Oregon Examiner

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(Continued from page 13)

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

☐ Delinquency fee per registration renewal: $80.00 per profession
Please refer to the Oregon Administrative Rule (OAR) 820-010-0505 and 820-010-0520 for further details.
☐ PE  ☐ PLS  ☐ RPP  ☐ CWRE  ☐ I have attached the CPD Organizational Form

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

Signature _______________________________ Date (Mo/Day/Yr) _______________________________

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)  Date (Mo/Day/Yr) _______________________________

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)  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.

Friendy Reminders

Registration renewal
Not sure if your registration(s) is current? Visit OSBEELS Web site at 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.

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 672.045(1) and (2), ORS 672.007(1)(a)(b), and OAR 820-020-0025(1).