

The
**Washington
Board**

*Informing Professional
Engineers and Professional
Land Surveyors of the events
and developments that affect
their professions*



Journal

Number 45 • Spring 2010

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INSIDE:

MESSAGE FROM THE CHAIR2

NEWS TO YOU

Board Investigates Crane Collapse In Bellevue.....	3
Board Works On Definition Of Land Surveying	4
Board Presents Program At LSAW Meeting.....	4
Mobility Rules For Engineering Licensure.....	4
Structural Engineering Exam Changes	5
International Historic Civil Engineering Landmark	6
Forest Engineering Exam Continues In Partnership With Oregon Board ...	7
Examinee Management System Set For October 2010 Administration	8
NCEES Supports EWeek Outreach Activities	9
University of Delaware wins 2010 NCEES Engineering Award.....	10
NCEES Exam Pass Rates.....	11
Board Takes Action On Unlicensed Design Practice.....	12
Mobility Rules For Engineering Licensure.....	12

EXAMINATIONS

Examination Results	13
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INVESTIGATIONS AND ENFORCEMENT

Statistics of Disciplinary Actions Taken By The Board.....	14
Summaries Of Investigations.....	14

WE NEED YOUR OPINION

Do you favor Continuing Education for PEs?	20
Attention Licensees: RENEWAL FEES	21
Legislature Passes Bill To Eliminate On-Site Advisory Committee.....	21

SCHEDULES

Calendar	23
Examination Schedule	23

Message from the Chair

The Washington Board Journal is published biannually by the Washington Board of Registration for Professional Engineers and Land Surveyors, George A. Twiss, P.L.S., Executive Director.

If you, or someone you know, would like to receive a copy of this publication, please contact the Board of Registration for Professional Engineers and Land Surveyors.

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“The Message from the Chair” is a reflection of the personal opinions and experiences of the Board Chair. Comments in the article may be shared by various members of the Board, but they are not to be interpreted as a policy, position, or consensus of the Board unless specifically so indicated.

From Scott Valentine, PLS, Board Chair

This board accomplishes many good things through the skill and dedication of those full time employees who work within the Department of Licensing and the Office of the Attorney General. Yet, even with those valuable resources, the Board would be unable to accomplish all that it does without the tremendous assistance and guidance we receive from many individual volunteers and organizations. Not a day goes by when we do not access information or technical support from partner licensing programs around the country and Canada. Also, in a significant way, the support and personnel who staff the headquarters offices of the National Council of Examiners for Engineering and Surveying(NCEES) could not be easily replaced if at all. We owe all of these people a tremendous debt of gratitude and want them to know we very much appreciate their efforts on our behalf.

We also access the wisdom and untold amounts of time by dedicated professionals who perform numerous tasks for the board with their expertise while receiving little or no compensation or expense reimbursement. Without their invaluable service and dedication the board simply could not do what they need to do within the fees the Board is allowed to collect. It is to these individuals and all those who have willingly offered to help when needed that we extend our sincere appreciation.

Contributions to the work of the Board come in many ways. Maybe it is a: technical analysis of a specialized engineering application; a referral to a resource with unique information; a review of draft surveying examination question or assisting a board member to better understand a technical element of an onsite design. All of these and many others represent the variety of services we receive.

Looking back over the past few years we have attempted to list those who have assisted in many areas. It is probably certain that someone has been accidentally omitted from the list below. If I have...my sincere apology.

You probably work with, know or will have the benefit to encounter any of these individuals in the weeks and months ahead. If you do, take a moment to thank them. This article will only scratch the surface of the appreciation they deserve.

Development of the State Structural III examination:

- | | |
|-----------------------------|-----------------------------|
| Robert D Anderson, PE, SE | Edwin T Huston, PE, SE |
| Scott R Beard, PE, SE | Michael W Lamont, PE, SE |
| Michael A Bramhall, PE, SE | Chyuan-Shen Lee, PE, SE |
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| Eric A Dann, PE, SE | Anne E McAteer-Berg, PE, SE |
| Ralph J Dornsife, PE, SE | Emery S Ojala, PE, SE |
| Jeffrey T Hubbell, PE, SE | Glen C Scroggins, PE, SE |

News to You

Board Investigates Crane Collapse In Bellevue

On the evening of November 16, 2006, while the operator was securing the tower crane at the Hines Bellevue Tower 333 construction site, he noticed that the crane started to lean in an unusual way. Shortly thereafter, the crane broke loose from its anchorage system and collapsed at the site. Some of the components of the crane struck adjoining buildings and an adjoining residential condominium, killing an occupant. Within a couple hours the Department of Labor and Industries had a team of investigators on site to document and evaluate the event.

In April of 2007, L & I released their report and issued citations against the general contractor and the consulting engineering firm. Upon learning of these actions the Board contacted the L & I investigation team and started their own investigation of the conduct of the engineering firm and its employees with regard to their conduct under laws and rules governed and enforced by the Board.

The engineering work performed was for the design of a non-traditional base to support the crane. Since the construction site was dormant for a number of years and much of the below ground parking areas were already constructed, the general contractor and building owners did not desire to cut through the existing pre-stressed flooring structures to construct a standard concrete anchorage base. Instead, the option chosen was to design and build a steel framework that would rest on the existing structure and be anchored to existing structural members of the parking garage.

The forensic engineering information documented by the L & I investigation concluded that a contributing factor to the collapse was that the tower crane base failed to support the crane operations. This information became the focus of the Board's investigation to determine if: the design was competently performed; the standards of design and practice were observed and maintained by the professional engineers; and the conduct of the

engineering firm and its employees were consistent with the requirements of the Board's *Rules of Professional Conduct and Practice*.

The lead investigator was Deputy Executive Director, Robert Fuller. In addition to extensive discussions with L & I investigators, attorneys and managers, he also conducted interviews with representatives of the crane owners, the firm that supplied the crane and the firm responsible for its erection. Personal interviews were also conducted with the staff of the general contractor (Lease-Crutchler-Lewis) and the consulting engineer (Magnussen Klemencic and Associates).

The Board investigation was guided by a retired board member, Nancy Miller-Duevel, PE, SE. With her assistance and the technical review of the engineering work product and responses, there was believed to be sufficient evidence that the lead design engineer failed to execute due diligence to ensure a thorough design was completed, and that the design criteria was correctly communicated to the crane owner and general contractor.

A Statement of Charges was filed against the design engineer on October 3, 2008. Along with the charges was a proposed Agreed Order that included a revocation of the design engineer's license. No charges were brought against the firm MKA or their Designated Engineer.

Following lengthy discussions between the Board's prosecuting AAG and the licensee's attorney, the agreement was modified and accepted by the licensee. The order included that the licensee surrender his license to practice in Washington. Another condition in the order was that he could not reapply for licensure in Washington for 10 years and at such time would have to requalify by passing the required examination. On September 2, 2009 the Board accepted the proposed agreed order.

Special Note: The above article is brief in detail due to space limitations for this publication. This article should not be considered a complete briefing of the investigation activity or the resulting disciplinary action. Anyone considering decisions or actions based upon this limited information is cautioned in doing so.

Board Works On Definition Of Land Surveying

While recent legislative attempts to broaden the definition of surveying were unsuccessful, the Board has undertaken a similar effort through its rule making authority. Presently the definition for the scope of land surveying is contained in RCW 18.43.020(9) and says:

“Practice of land surveying” means assuming responsible charge of the surveying of land for the establishment of corners, lines, boundaries, and monuments, the laying out and subdivision of land, the defining and locating of corners, lines, boundaries, and monuments of land after they have been established, the survey of land areas for the purpose of determining the topography thereof, the making of topographical delineations and the preparing of maps and accurate records thereof, when the proper performance of such services requires technical knowledge and skill.

The rule-making approach will take language from other state laws and the NCEES Model Law. It is believed that, while remaining within the scope shown in the statute, an expanded definition could be beneficial on the breadth and depth of practices related to boundary and topographic surveying.

If this effort is successful you can expect to see notification on any rule-making the Board chooses to initiate. A timetable has not been established at this time but if you are interested in reviewing draft rules you can subscribe to the Board’s List Serve by going to: <http://listserv.wa.gov/cgi-bin/wa?A0=ENGINEERS-LICENSINGBOARD>

Board Presents Program At LSAW Meeting

On March 4th the Board presented a program as part of the agenda for the 2010 annual meeting the Land Surveyor’s Association of Washington. Over the four hour segment, Board Chair, Scott Valentine; Board Member, Mel Garland; Deputy Executive Director, Robert Fuller and Executive Director, George Twiss discussed a variety of topics. The program generally

used the following outline:

TODAY’S PROGRAM:

- Board Administrative Issues
- State Licensing Examination
- Role of the Surveyor under Washington law
- “PEER” review
- What happens with a complaint
- “What happened in Bellevue?”
- Open Forum

The Board members and Board staff make themselves available for presentations to professional and technical organizations throughout the year. Topics can vary but are always interesting and informative. If your organization is interested in having a program presented at your next meeting just contact George Twiss, Executive Director for scheduling. This service is provided at no charge.

Mobility Rules For Engineering Licensure

As many of you know the Board has been working for many years on developing an understanding for mobility of licensure between Washington State and foreign jurisdictions. That effort took on a final form when in January the board filed their first draft rules to implement mobility with those licensed in Canada as a P. Eng.

With all good intentions we soon found out from those commenting that some of the language was unclear. We agreed and believed that the most appropriate action to correct the oversight was to suspend that rule making process and reinstate it using the corrected wording. The revised rule making was started when a new CR-101 was filed with the office of the Code Reviser on February 26th. Following that, the revised language was submitted with the CR-102 filing on April 16, 2010.

The revised language submitted with the April 16th filing is as follows:

CHAPTER 196-13 WAC

Professional Engineer Licensure by Comity

NEW SECTION

WAC 196-13-010 Purpose of rules.

The rules within this chapter identify the requirements and conditions for the Board of Registration for Professional Engineers and Land Surveyors (board) to consider qualified applicants from US states, US Territories or recognized foreign jurisdictions.

NEW SECTION

WAC 196-13-020 Board review of applications.

The board may use any one or combinations of the following procedures in determining if an applicant is eligible for licensure under this chapter:

- Detailed review and evaluation of application;
- Interviews with applicant's references;
- Review of examples of applicant's work product;
- Oral interview/examination with applicant.

NEW SECTION

WAC 196-13-030 Eligibility.

Licensure by comity under this chapter is NOT applicable to an applicant who:

- Is seeking licensure in structural engineering without Board approved examination(s);

or

- Has attempted and failed any of the engineering principles and practice examinations developed by the board or the National Council of Examiners for Engineering and Surveying (NCEES) within the six years immediately preceding the date of application;

or

- Has a record of disciplinary action against his or her license, where findings of negligence or incompetence were proven

by competent judicial or administrative authority.

NEW SECTION

WAC 196-13-100 Application Requirements. The board may grant licensure as a professional engineer to a United States or Canadian professional engineer who satisfies the following:

- Has an active license as a professional engineer in a US state or territory or as a professional engineer member in a constituent member organization of Engineers Canada;

and

- Has educational experience acceptable to the Board;

and

- Has engineering practice experience acceptable to the board. The board may require up to six years of experience after the initial date of licensure as a professional engineer. The experience shall include two years of engineering practice on projects in the United States or in an environment acceptable to the Board where codes similar to those used in the United States were applied;

and

- Has identified three or more professional engineers who can serve as references, acceptable to the board, and are able to attest to the applicant's credibility, ethical conduct, and technical competence as a professional engineer.

In addition, detailed instructions and forms will be developed to further explain what a candidate needs to submit for the process to be administered.

If you wish to comment on these revised rules you may do so by sending an email to: Engineers@dol.wa.gov; sending a fax to: (360) 664-2551; or a letter to Board of Registration, Rules Coordinator, P.O. Box 9025, Olympia, WA 98507-9025.

Structural Engineering Exam Changes

The examinations that are presently used by the state of Washington to qualify individuals for licensure in structural engineering will be changing. It is important you read and understand these changes.

Starting in April 2011, the primary structural licensing examination for Washington State will be the examination developed by the National Council of Examiners for Engineering and Surveying (NCEES). That examination is scheduled to be available for the April 2011 administration. The last offering of the NCEES Structural II examination will be October 2010.

Frequently Asked Questions

I have been approved to sit for the licensing examinations in Washington. I have not passed either the SE II or the Washington SE III examinations. What are my options?

Currently, you are required to pass both examinations. The SE II is offered in April and October of each year. The last time you can sit for the SE II is October 2010. You will need to pass the SE II by October 2010 and the WA SE III by October 2011.

You may wait and take the NCEES SE exam when it is first offered in April 2011.

I have passed the SE II but have not passed the Washington SE III. If I have not passed the WA SE III by October 2011 can I get credit for the SE II already completed?

NO. The SE II is part of the current 16-hour examination requirement for licensure in Washington. It is used in conjunction with the WA SE III. When the WA SE III is discontinued you will be required to pass the 16-hour NCEES SE examination to complete the exam requirements.

I have passed the WA SE III but have not passed the SE II. If I do not pass the SE II by the time it is discontinued, what options do I have?

Your only option is to pass the NCEES SE examination.

If I have passed the SE III but not the SE II, can I use my SE III passage as credit for an 8-hour portion of the NCEES SE examination?

NO. The NCEES SE exam is a stand-alone examination and you MUST receive a passing score on both 8-hour sessions. However, you do not need to take both 8-hour sessions during the same exam administration. You may take one portion and six months later take the remaining portion.

I have passed the SE II. If I pass the NCEES SE exam in April 2011 before I pass the WA SE III what is my status?

You will have more than satisfied the examination requirements. We would issue a license in structural engineering.

Is the fee I have paid transferrable if I have passed the SE II and am scheduled for the WA SE III and wish to take the NCEES SE exam as an alternative?

NO. The fees for taking the NCEES SE examination are set by and paid to the NCEES. If a fee paid to the WA Board is eligible for refund, the WA Board will process a refund to you.

Does passage of the NCEES SE examination make it possible to be licensed in other states?

We cannot offer a response to that question. Each state sets its own requirements.

When and how often will the NCEES SE Examination be offered?

The new exam will be offered every April and October starting in April 2011.

What will be the fee to gain admission to the NCEES SE Examination?

The cost for the 16 hour structural exam will be as follows:

16-Structural (vertical) = \$410 book/scoring

16-Structural (lateral) = \$410 book/scoring

Administration fee = \$100/per day

(if an examinee chooses to take both the vertical and lateral during the same exam administration, they will pay \$200 administration fee)

I am licensed as a Structural Engineer in California. Will I be able to get licensure in Washington after the new exam is offered?

YES. The Boards of California and Washington have agreed to accept each state's SE III exam as equivalent to their own. Both states will be moving to the new NCEES SE exam at the same time so comity licensure should not be affected.

For more information on the NCEES SE Exam go to:
ncees.org/exams/PE_exam.php

International Historic Civil Engineering Landmark

The voyage of Captain George Vancouver, 1791-1795, resulted in the most accurate and detailed map of its time for the entire west coast of North America, and proved conclusively the absence of a Northwest Passage through the continent. Vancouver was the first European to discover and map Puget Sound and to prove the insularity of Vancouver Island. His survey of coastal British Columbia and southern Alaska benefitted from information received from contemporary Spanish explorers.

The above represents the text of the International Historic Civil Engineering Landmark plaque that was dedicated on August 9, 2009, at the Vancouver Maritime Museum, Vancouver, British Columbia. The dedication was a joint effort of the Canadian Society for Civil Engineering; the Asociación de Ingenieros de Caminos Canales y Puertos de España and the American Society of Civil Engineers.

On May 1, 2010 a ceremony will be held in Port Townsend, Washington at 2 p.m. to dedicate a

similar landmark in the United States. These events are intended to draw attention to the significance of the mapping performed by Captain Vancouver in his explorations of the northwest coastline.

Forest Engineering Exam Continues In Partnership With Oregon Board

Over the past several years the number of first-time candidates applying for the PE license in Forest Engineering has diminished to the point that we were averaging only one or two applicants every couple years. During this time and for many years preceding this decline, the exam development, administration and grading was a shared effort between the Oregon and Washington Boards. The combined resources were particularly beneficial to the Washington Board since we had only one subject matter expert who was doing all the Washington's share of the effort.

Last year, after no applications were received for Washington licensure, the Board concluded that something needed to be done differently if the Forest Engineering exam was to continue as desired. The change was captured in a revised agreement recently approved by both Boards. Starting in May 2010, any applicant desiring to be licensed in Forest Engineering will be directed to apply to the Oregon Board and, if approved, to take the Oregon version of the examination. If they pass the applicant would be licensed in Oregon in Forest Engineering.

The applicant who is successful with the Oregon exam can then apply to Washington for a license in Forest Engineering without examination. The application would need to be submitted as provided with Washington rules. This agreement enables the Washington Board to license qualified candidates in Forest Engineering as long as the Oregon Board continues to offer the examination.

Anyone interested in seeking licensure in this area of practice should contact the Oregon Board at: <http://www.oregon.gov/OSBEELS/>.

The Washington Board Journal

Questions & Answers



What is Preliminary?

Question:

I have had discussions with consultants who develop subdivision plats and there appears some disagreement on whether a “Preliminary Plat”, that is submitted for county approval, is a *preliminary document* as defined in WAC 196-23-020?

Answer:

A “Preliminary Plat” is a final document under Board rule. Specifically, a “Preliminary Plat” as that term is used in the state law and local ordinance, is a final document because it is submitted for review and approval. The following are the respective definitions for Final and Preliminary Documents as they appear in WAC 196-23-020:

- (1) Final documents are those documents that are prepared and distributed for filing with public officials, use for construction, final agency approvals or use by clients. Any final document must contain the seal/stamp, signature and date of signature of the licensee who prepared or directly supervised the work. For the purpose of this section “document” is defined as plans, specifications, plats, surveys, as-built documents prepared by the licensee, and reports.
- (2) Preliminary documents are those documents not considered final as defined herein, but are released or distributed by the licensee. Preliminary documents must be clearly identified as “PRELIMINARY” or contain such wording so it may be differentiated from a final document. Preliminary documents must be stamped, but need not be signed or dated by the licensee.

Update of green book?

Question:

I am licensed both as a professional engineer and an architect. For many years I made reference to the

information that was contained in the Guidelines for Washington State Building Officials and Design Professionals. In recent years I was unable to find printed copies so I used the PDF version on your website. The current version shows a publishing date of 2002. Are there any plans to update the guideline? I note there are several items that are out of date and may cause confusion.

Answer:

The Engineer’s Board has spent some time reviewing those sections relevant to engineering, land surveying and on-site designers with the purpose of creating an update to put on the website. A while ago an informal discussion was held between the administrators of the programs listed in the guideline and a small group of building officials from the Washington Association of Building Officials.

There was agreement that updates were needed and that the most productive and cost effective way to deliver that information was to have them on the respective program websites. However, as priorities arise, our work to accomplish this has been delayed. The Engineer/Surveying/On-site information is being worked on and we hope to have the revised content of those sections on our website by this summer.

Elimination of On-site Advisory Committee?

Question:

As I understand it, the 2010 legislature has chosen to eliminate the On-Site Advisory Committee that came into existence with the creation of the On-Site Designer Licensing Program in 1999. If that committee goes away what happens to the program?

Answer:

The program will continue without change or interruption. All requirements to qualify for a license and maintain an active license remain in effect. The Board will continue to seek input from industry volunteers to help with the examination and selected questions about standards of practice.

Note: The following are articles from the February 2010 NCEES Licensure Exchange or News Releases from NCEES. They are reprinted here in total for your information. If you have any questions please visit the NCEES website www.ncees.org

Examinee Management System Set For October 2010 Administration

New system expected to improve security and efficiency

Ensuring the integrity of engineering and surveying licensure exams is an integral part of our efforts to protect the public. NCEES staff is nearing the completion of a new tool to strengthen those efforts: the examinee management system. Beginning with the October 2010 administration, all exam candidates will be required to register with NCEES through our web site after they have been qualified by the appropriate licensing board. This online system will allow boards to track a candidate's exam attempts across jurisdictions. This will strengthen exam security and allow boards to better enforce limits on exam attempts. It will also offer several optional features previously only available to boards using NCEES exam administration services, including:

- Examinee seat cards, arranged to separate candidates taking the same exam
- Proctor rosters, with examinees divided into groups of 24 per proctor
- Online exam authorization notices
- Online score notices

How it works:

When registering, candidates will select their exam (and afternoon module if applicable) and an exam location. At that point, NCEES will issue the candidate an identification number. During the registration period, Member Boards or their testing services will be able to view registered candidates through the NCEES Web site. They must indicate whether each candidate has been approved

to sit for the exam at his or her chosen location. When registration closes, there will be a one-week reconciliation period for boards to finalize their approvals. Exam orders will then automatically be generated from this list.

Prior to the exam dates, NCEES will send the boards a master roster of all registered and approved candidates. Only candidates appearing on the master roster will be admitted to the exam. This policy will apply to all Member Boards—not just those using NCEES exam administration services. The examinee management system will require some new practices, but NCEES will continue to keep the staff at the Member Boards informed so that these changes can be implemented without disrupting the exam process.

Steven F. Matthews

NCEES Director of Information Technology

NCEES Supports EWeek Outreach Activities

2010 initiatives encourage K-12 students to discover engineering

The people behind Engineers Week 2010 are hoping that some of today's egg bungee jump builders become tomorrow's breakthrough engineers. With Engineers Week February 14–20, NCEES and other society and corporate sponsors of the National Engineers Week Foundation are calling attention to the ways engineers can share their enthusiasm for applied math and science with schoolchildren throughout the country.

Among the range of outreach opportunities is the Future City Competition, a popular event that features teams of middle school students using engineering principles to design cities that address issues such as transportation, infrastructure, and sustainability. NCEES sponsors the Best Land Surveying Practices award at the national competition and sends representatives to the event to judge entries.

Another program under the Engineers Week umbrella is DiscoverE, which encourages engineers

to demonstrate to K–12 students the types of things engineers do in their daily work. DiscoverE includes lesson plans for engineering activities, including the aforementioned egg bungee jump and a makeshift solar oven.

“The goal of the EWeek activities is to show students that engineering involves creative thinking and collaboration and it’s a rewarding career for people who want to improve the world around them,” said Davy McDowell, P.E., associate executive director at NCEES.

As a member of the EWeek steering committee, NCEES provides financial support and leadership to the National Engineers Week Foundation, which organizes the year-round programs that culminate with the events of February 14–20. Many of the other society sponsors, such as the National Society of Professional Engineers, the American Society of Mechanical Engineers, and IEEE-USA, are members of the NCEES Participating Organizations Liaison Council. The American Society of Civil Engineers is a co-chair of Engineers Week 2010, along with ExxonMobil. Each year, one engineering society and one corporation serve as co-chairs for Engineers Week. NCEES is currently slated for 2013.

Continued support for other outreach activities

Other programs aimed at middle and high school students have also received funding from NCEES recently.

At its November meeting, the NCEES Board of Directors authorized a one-time contribution of \$20,000 to the MATHCOUNTS Foundation (www.mathcounts.org). This is in addition to \$5,000 that was already pledged to the foundation.

MATHCOUNTS is a popular program for students in grades 6–8 that features math competitions and a club program that provides schools with the structure and materials for math clubs.

In January, NCEES renewed its sponsorship of the Junior Engineering Technical Society (www.jets.org), a program for high school students to answer questions about engineering careers and provide guidance on studying engineering in college. JETS sponsors a team competition that presents challenges focused on engineering-related themes.

NCEES is also continuing its financial support

of TrigStar, an annual high school mathematics competition organized by the National Society of Professional Surveyors. The TrigStar program (www.nspsmo.org) promotes the study of trigonometry and builds awareness of the surveying profession among high school students, guidance counselors, and math teachers.

Teaching engineering design may boost learning of science and math

The introduction of K–12 engineering education could improve achievement in science and math, increase awareness about what engineers do and of engineering as a potential career, and boost technological literacy, according to a report from the National Academy of Engineering and the National Research Council. The report, *Engineering in K–12 Education*, examines the status and nature of efforts to teach engineering in U.S. schools.

“The problem solving, systems thinking, and teamwork aspects of engineering can benefit all students, whether or not they ever pursue an engineering career,” said Linda Katehi, chancellor of the University of California–Davis and chair of the committee that wrote the report. “A K–12 education that does not include at least some exposure to engineering is a lost opportunity for students and for the nation.” While science, technology, engineering, and mathematics instruction is collectively referred to as “STEM education,” the report finds that the engineering component is often absent in policy discussions and in the classroom.

The committee found that engineering education opportunities in schools have expanded in the past 15 years. Since the early 1990s, the report estimates, about 6 million children have been exposed to some formal engineering coursework. However, this number is still small compared with the overall number of K–12 students (approximately 56 million in 2008). The committee noted the challenges to expanding availability and improving the quality of these programs, including the absence of content standards to guide development of instructional materials, limited pre-service education for teachers, and impediments to including this subject in an already crowded curriculum.

With these challenges in mind, the committee

recommended beginning a national dialogue on preparing K–12 teachers and identifying models for K–12 engineering education that will work for different school types. It also noted the importance of clarifying the meaning of “STEM literacy” and of developing curricula that appeal to groups typically underrepresented in engineering, such as girls, African-Americans, and Hispanics.

The full report is available from the National Academies Press (www.nap.edu).

National Academies news release September 9, 2009.

University of Delaware wins 2010 NCEES Engineering Award

NCEES is pleased to announce that the University of Delaware Department of Civil and Environmental Engineering is the grand prize winner of the 2010 NCEES Engineering Award for Connecting Professional Practice and Education. The award jury met March 25, 2010, in Clemson, S.C., to select the \$25,000 grand prize winner.

The department received the prize for its submission, Pomeroy Trail East Annex. For the project, student teams competed to win a commission and perform the preliminary engineering for an expansion of a multiuser trail system in their city. The teams worked with engineering mentors from professional practice to consider drainage and environmental upgrades, wastewater system improvements, reevaluation of a proposed groundwater remediation program, and associated infrastructure improvements.

The jury praised the project for its “excellent integration of real-world experience in an educational setting.”

The jury selected five additional winners to receive awards of \$7,500 each.

- **California Polytechnic State University,**
San Luis Obispo
Civil and Environmental Engineering Department
Bridging the Gap between Theory and Practice
through Capstone Design

- **California State University, Los Angeles**
Department of Civil Engineering
Connecting Practice with Education through Civil Engineering Capstone Experience: Puddingstone Reservoir Operations Level Study

- **Clemson University**
Holcombe Department of Electrical and Computer Engineering
Engineering Haptic Virtual Manipulatives to Enhance K–12 Math and Science Education

- **University of Maryland**
Department of Civil and Environmental Engineering
Engineers Without Borders: Solar Recharge Project in Burkina Faso, Africa

- **University of New Mexico**
Department of Civil Engineering
Integration of Civil Engineering and Construction Management Education: A Multi-disciplinary, Mentor-led Capstone Experience

The NCEES Engineering Award recognizes engineering programs that encourage collaboration between students and professional engineers. All EAC/ABET-accredited engineering programs were invited to submit projects that integrate professional practice and education.

The winners were selected by a jury of NCEES members and representatives from academic institutions and professional engineering organizations.

“It’s great to see these innovative approaches to teaching students about professional practice; we hope they inspire other colleges to try similar collaborations,” said NCEES President David Whitman, Ph.D., P.E.

Profiles of the winning submissions are available online at engineeringaward.com.

NCEES, October 2009 exam pass rates

FE EXAMINATION

FE pass rates for examinees who attended EAC/ABET-accredited engineering programs:

Exam Module	First-Time Takers	Repeat Takers
Chemical	87%	61%
Civil	74%	29%
Electrical	71%	25%
Environmental	82%	37%
Industrial	65%	26%
Mechanical	78%	27%
Other/General	73%	28%

FE pass rates for FE Other/General module by examinee degree:

Examinees' Degree Discipline	First-Time Takers	Repeat Takers
Aeronautical/ Aerospace	87%	29%
Agricultural	79%	63%
Architectural	71%	35%
Biological	83%	46%
Chemical	81%	37%
Civil	69%	25%
Electrical	58%	26%
Engineering Mechanics	60%	16%
Environmental	68%	35%
General Engineering	78%	29%
Mechanical	79%	34%
Mining/Mineral	58%	25%
Petroleum	55%	60%
Structural	71%	39%

PE EXAMINATION

Examination	First-Time Takers	Repeat Takers
Agricultural	80%	0%
Chemical	80%	33%
Civil	61%	28%
Control Systems	81%	60%
Electrical and Computer	63%	22%
Environmental	75%	39%
Fire Protection	64%	43%
Industrial	67%	21%
Mechanica	69%	36%
Metallurgical and Materials	56%	33%
Mining /Mineral Processing	73%	38%
Nuclear	79%	80%
Petroleum	83%	29%
Structural I	45%	28%
Structural II	65%	36%

SURVEYING EXAMINATIONS

Examination	First-Time Takers	Repeat Takers
FS	62%	25%
PS	67%	37%

Board Takes Action On Unlicensed Design Practice

Stemming from exploitation of the rules allowing on-site designs by homeowners, the Board was asked to investigate the activities of an employee of a retail lumber and hardware firm in Spokane. Richard Schubach, an employee of Ziegler Lumber Company (Ziggy's) in Spokane, Washington, was alleged to be performing on-site design services without having qualified as a designer under Washington law.

Mr. Schubach's general approach was to provide design work for homeowners with a reduced or no fee. The work he performed was done using equipment and facilities of his employer at the business location. When the design was completed the homeowner would then sign a statement confirming the design was prepared by them thereby satisfying the basic condition that allowed "homeowner" designs under Department of Health authorization. The design materials were part of a series of documents, plans and details printed on letterhead of the firm.

The Board's investigation involved their staff going to the business and posing as property owners in need of design services. The staff at the facility immediately referred them to Mr. Schubach for that work. During the visit Mr. Schubach explained how he did his work that he did not have a license but they could sign a form stating they were the designers. Sometime later Mr. Schubach provided several pages of design, calculations and details for the planned site. The packet of materials included the certification statement... *"I certify that this design meets all regulations and rules of the Washington State Department of Health and the Northeast Tri-County District. I also attest that the attached septic system layout was designed by me, the property owner."*

After having served both the firm and Mr. Schubach with a *Notice of Intent to Issue a Cease and Desist Order*, both parties agreed separately to negotiated terms in an *Agreed Order*. For Ziegler Lumber Company, they agreed to cease and desist from unlicensed design work and pay a fine of \$1,000. Mr. Schubach, having been previously terminated by his employer for other causes, agreed also to cease and desist from unlicensed design work. Both respondents are subject to further investigation and penalties if the terms of the agreements are violated. The agreements were approved by the Board on February 23rd and served on the respondents February 24th.

Examinations

October 2009 Examination Results

	Total	Pass	% Pass
Fundamentals of Engineering (EIT)	535	356	67%
Principles & Practice of Engineering			
Chemical	6	4	67%
Civil	229	134	59%
Electrical	42	23	55%
Environmental	10	8	80%
Mechanical	73	54	74%
Structural II	47	28	60%
Fundamentals of Land Surveying (LSIT)	22	10	45%
Principles & Practice of Land Surveying			
NCEES – 6 Hour	16	13	81%
WA Specific L S (2-hour)	51	26	51%
On-Site Designer	5	3	71 %
On-Site Inspector	7	7	100%
Structural III	149	33	22%

Investigations & Enforcement

Statistics of Actions Taken By The Board

**JULY 1, 2009 THROUGH
DECEMBER 31, 2009**

Active investigations as of July 2009	34
Investigations Opened	43
Investigations Closed	48
Active Investigations as of June 30, 2009	29

SUMMARY BY MONTH:

	Complaints Received	Inquiries Received	Investigations Opened*
July	10	0	10
August	5	0	5
September	14	0	14
October	8	0	8
November	4	0	4
December	2	0	2
Totals	43	0	43

*Investigations can be opened by either a complaint or an inquiry received.

SUMMARY BY PROFESSION AS OF DECEMBER 31, 2009

	Active Investigations	Legal Status	Compliance Orders
Prof. Engineers	5	6	4
Prof. Land Surveyors	6	2	4
Unlic. Engineers	2	1	2
Unlic. Land Surveyors	0	1	4
On-site Designers	1	5	1
Totals	14	15	15

Legal status refers to the investigations that the Case Manager has referred for adjudicative action.

Summaries Of Investigations And Actions By The Board

The following case summaries cover the disciplinary actions against licensees from July 1, 2009 to December 31, 2009. In each disposition the Board accepted the recommendations of the case manager, unless stated otherwise. For those cases involving a Board order, each licensee may be monitored for compliance with the conditions imposed in the order.

The summary information provided under "INFORMAL ACTIONS" is provided to educate licensees on events and circumstances that come before the Board for investigation. In those cases no disciplinary action is taken because either the allegations are unsubstantiated, fall outside the scope of jurisdiction of the Board or it becomes unnecessary because of corrective measures taken. Any investigations that reveal clear and convincing evidence of wrongdoing, and where a Board Order is issued, will be listed under "FORMAL ACTIONS".

The decisions of the Board members who work as Case Managers of the investigations are based upon their personal opinions of the severity of the infraction and the best course of action to take to appropriately resolve issues. Interpreting any one or several dispositions as indicative of the Board's view of how all such cases will be handled in the future would be incorrect.

These summaries are not intended to disclose complete details related to any given investigation or action. While every effort is made to ensure accuracy of the information shown, anyone intending to make a decision based upon this information should contact Robert Fuller, Deputy Executive Director at (360) 664-1578 for more details.

FORMAL ACTIONS

Engineering

E. Douglas Loesch, PE, Case No. 07-05-0009

The Board opened an investigation on Douglas Loesch, PE based on allegations of not having due diligence on a project, not maintaining good records throughout the duration of the project, and possible misconduct or unprofessional conduct.

The investigation revealed that Mr. Loesch was the engineer of record and engineer team leader on the project therefore responsible for his subordinates and what happened on the site.

After reviewing the investigation file, the case manager authorized the issuance of a Statement of Charges on October 3, 2008, and a settlement option in the form of a Stipulated Findings of Fact, Conclusions of Law, and Agreed Order. On August 13, 2009, Mr. Loesch accepted the settlement option and signed the Agreed Order. The terms of the Agreed Order included the surrender of his professional engineer's license.

On September 2, 2009, the Board accepted the Agreed Order.

Land Surveying

Ronald Curren, PLS, Case No. 07-12-0010

The Board initiated this investigation based on the licensee's non-compliance of a previous Board Order. As of November 15, 2007, Mr. Curren had not complied with his June 11, 2007 Stipulated Findings of Fact, Conclusions of Law, and Agreed Order.

The Board issued a Statement of Charges (SOC) on November 27, 2007, alleging failure to comply with the original Board Order, and Mr. Curren was given the opportunity to request a Brief Adjudicative Proceeding (BAP) to dispute the allegations. Mr. Curren did not respond. A Findings of Fact, Conclusions of Law, and Order of Default (Order) was presented to the Board which revoked his license to practice as a professional land surveyor.

On September 2, 2009, the Board accepted the Default Order.

Unlicensed Practice

Associated Environmental Group, LLC, Case No. 08-04-0008

The Board opened an investigation on Associated Environmental Group, LLC based on allegations that they practiced engineering without a license.

The investigation revealed that Associated Environmental Group, LLC prepared a set of engineering drawings, showing the company's business logo on the title block, dated March 26, 2008, without a Certificate of Authorization from the Board. The company's Certificate of Authorization expired on November 3, 2001. The drawings did not have stamp or seal by a licensed engineer.

On May 19, 2009 a Notice of Intent to Issue a Cease and Desist Order was filed. A settlement opportunity was offered and accepted by Associated Environmental Group, LLC on July 30, 2009. Terms of the Agreed Order included the immediate cease and desist from the unlicensed practice of professional engineering in the state of Washington.

Gregory S. Lee, EIT, Case No. 08-03-0002

The Board opened an investigation on Gregory S. Lee, EIT, based on allegations that he had engaged and continued to engage in the unlicensed practice of engineering and that he had engaged in unprofessional conduct in his status as an EIT.

The investigation revealed Mr. Lee is not licensed as a Professional Engineer, but is an Engineer-in-Training. Mr. Lee was an employee of an engineering corporation, until November 16, 2007. While employed at the corporation, Mr. Lee submitted four engineering reports, dated October 19, 2006, September 27, 2007, October 16, 2007, and November 9, 2007. The four reports were signed by Mr. Lee and included the professional engineering seal and signature of the Vice President of the corporation. The Vice President did not supervise Mr. Lee's work on the four reports, and neither the Vice President nor anyone else knew that the four reports were submitted by Mr. Lee with the Vice President's seal and signature. Mr. Lee also directly billed clients and collected fees for the four reports.

The Vice President filed a complaint for fraud related to Mr. Lee's use of his stamp and signature with the Richland, Washington police department. Mr. Lee was criminally charged with forgery and pled guilty to two counts of forgery in Benton County Superior Court on June 6, 2008.

Following his employment termination, Mr. Lee operated Lee Engineering Geotechnical and Construction Engineering Services and Lee Consulting Service. In this capacity Mr. Lee provided a client with a report on Geotechnical Engineering Studies, which he signed “President, Lee Engineering.” Mr. Lee’s business is not authorized under either name by the Board to provide engineering services in Washington State.

Mr. Lee’s reports submitted in his capacity as Lee Engineering Geotechnical and Construction Engineering Services and Lee Consulting Service were reviewed by a licensed mechanical engineer, but that engineer did not directly supervise Mr. Lee’s work and did not stamp or seal the reports themselves, only a letter stating that he found Mr. Lee’s work to be correct.

On October 20, 2008, Statement of Charges and Notice of Intent to Issue a Cease and Desist Order were filed. Mr. Lee’s hearing would be a Brief Adjudicate Proceeding (BAP). On August 1, 2009, the Presiding Officer issued a Findings of Fact and Conclusions of Law that Mr. Lee immediately cease and desist from the practice of engineering, including but not limited to, cease and desist offering to provide and/or perform engineering services and representing himself to potential clients as being lawfully authorized to provide and/or perform engineering services in the State of Washington. Also, Mr. Lee shall immediately cease and desist from distributing or authorizing any advertisement or any offering to the public by a website that states or suggests he can lawfully provide engineering services. Mr. Lee shall immediately cease and desist from participating in any capacity in the dissemination of advice, estimates, suggestions, recommendations or judgments where such actions could be seen or interpreted to convey the impression that he is licensed, competent or conversant in the art and science of engineering. The order became effective August 3, 2009.

INFORMAL ACTIONS

Engineering

Case No. 08-10-0001

This investigation was opened after a complaint was received from an architect alleging a PE stamped and reused the complainant’s plans without permission for a construction permit application. The respondent admitted negligence in unintentionally submitting a wrong set of plans. The resubmitted plans contained the term “Architectural Plans” in the title block. Additional concerns that this behavior was repeated on other projects could not be substantiated. The respondent’s work was charity work. There was no service contract between the respondent and the project owner.

In considering the facts as stated above, the case manager agreed that there was negligence involved on the part of the respondent. Within the confine of professional services, the respondent should have spent more time, and paid more attention to details of his work even though it was volunteer service. The case manager recommended the case be closed with the PE being reminded of his responsibility and obligation of due diligence required for all works performed as a licensee.

Case No. 08-12-0002

This investigation was opened after a complaint was received from a local health jurisdiction alleging the respondent was not providing the standard of care expected from an on-site design professional. Although the complaint mentions ongoing concerns about the respondent’s work, it is specific to the quality of an as-built submitted for a specific project.

After reviewing records the case manager found that the respondent’s as-built was identical to the original design documents; the respondent stated that he inspected the system and that it was installed per his original design; and, while the local health jurisdiction rejected the respondent’s as-built, the homeowner provided his own as-built, which was subsequently accepted, even though it had some of the same deficiencies that caused the rejection of the

respondent's drawings. The case manager felt that the allegations of not meeting the standards of care were unsubstantiated.

Case Nos. 09-02-0011, 09-02-0012 & 09-02-0013

This investigation was opened after a complaint was received from a licensed structural engineer that was reviewing structural plans, which were designed by three other professional engineers. The complainant alleged design deficiencies, omissions, and errors as well as non-responsiveness and deceptions. The complaint was against the firm where the engineering work was performed and not against the individual licensees. The investigation found that the project had subsequently been redesigned by another PE employed by the firm who was not involved in the original project.

The case manager agreed that there appeared to be issues on consistency and/or compatibility between analytical assumptions and details presented by the contract plans. However, these issues did not rise to the level that would demonstrate a need for corrective action by the Board. The case was closed.

Case No. 08-03-0001

The Board initiated this investigation as a result of information received that, in 2005, a licensed professional engineer was found guilty of two counts of manufacture of a controlled substance with a school bus stop enhancement.

According to the information provided, the respondent was sentenced to 27 months of total confinement by the County Superior Court Judge. The Respondent's conviction was overturned by the Court of Appeals without an objection by the County Prosecutor.

Prior to the overturned conviction, a Statement of Charges was issued. After information was received that the respondent's conviction was overturned, the case manager recommended that the Charges be withdrawn, and the case be closed.

Engineer-in-Training

Case No. 09-07-0002 & 09-07-0003

This investigation was opened based upon a letter from NCEES identifying a pair of examinees from the April 2009 FE exam suggesting irregularities per NCEES analysis procedures.

The two examinees were sitting next to each other during the exam. NCEES stated that they reviewed the exam booklets and answer sheets for both examinees and found indications of cheating. Both exams were invalidated. Both candidates were allowed to retake the exam.

Land Surveying

Case No. 09-06-0001

This investigation was opened based on allegations of abuses of professional conduct by the respondent for unauthorized use of the complainant's survey data submitted to a public agency for a commercial site plan.

The survey data was a topographic base map transmitted electronically from the complainant to the project architect.

The case manager concluded that the allegations did not rise to the level of infraction or corrective action.

Case No. 09-04-0011

This investigation was opened based on a complaint alleging that a surveyor was working for four separate firms and serving as the Designated Surveyor for each firm.

The records confirmed that the respondent was the designated land surveyor for one of the firms. He was also a prior employee of another of the firms.

No evidence showing lack of supervision or conflict of interest was found in this matter. It was recommended that this investigation be closed with no further action, as it appeared there was no clear and convincing evidence to substantiate the allegations.

On-Site Designers

Case Nos. 08-06-0007, 08-07-0001, 08-07-0008, 08-08-0001, 08-10-0005

These investigations were opened as a result of allegations of unprofessional conduct and not applying the skill, diligence and judgment required by the professional standard of care for on-site wastewater treatment system designers. As the respondent's on-site designer's license was revoked in 2009, the case manager recommended these cases be closed.

Corporations

Case No. 09-09-0012

This investigation was opened based on a complaint that a firm did not have a Certificate of Authorization from the Board. The company was contacted, and immediately filled out the required paperwork and now is licensed with the Board.

Case No. 09-09-0015

This investigation was opened based on a complaint that a firm did not have a Certificate of Authorization from the Board. The company was contacted, and immediately filled out the required paperwork and now is licensed with the Board.

Unlicensed Engineering

Case No. 09-03-0005

This investigation was opened after a complaint was received alleging the respondent was advertising and offering engineering services on his website without being a licensed engineer and without being registered with the Board.

The respondent's website advertises home inspection services including FHA-HUD foundation inspections for manufactured homes. Engineering certifications of the foundation are provided by contracted licensed engineers. At the time of the complaint, the respondent's website included language stating that his company provided home foundation engineering certifications. However, other areas in the respondent's website indicated that he worked

in conjunction with an engineering firm. The respondent in his statement to the board described the process in which, as part of the home inspection, he would take pictures of the foundation and provide them to a licensed engineer. The licensed engineer would provide the stamped certification form.

The respondent made changes on his website that engineered certifications are provided by a contracted engineer. The case manager concluded the respondent clarified his website so that it does not imply he is providing or offering engineering services without being licensed.

Case No. 08-03-0007, 08-03-0008, 08-03-0009

These investigations were opened as a result of a complaint by a professional engineer alleging that employees of a state agency altered permit documents without such work under the direction of a qualified professional engineer.

The complainant PE was once employed at the state agency and as part of his duties he was involved in the review of applications and permitting of specialized industry processes. The complainant alleged that after the issuance of his original permit, managers within the agency revised some of the conditions under which the original permit was issued and signed the permit even though agency rules and law required the permit to be under the supervision of a PE.

At the request of the Board an independent PE, familiar with the general permitting process, reviewed the information gathered in the investigation. That review did identify where procedures and requirements were not followed by certain managers within the agency. The permit that was issued without a PE signature was subsequently repealed. A new permit was issued following review and approval by a new PE employed by the agency.

Two Board members and Board Staff met with three of the managers about the importance that the work be done by a PE and that the public can be seriously harmed if this specialized knowledge is not part of the permitting process. The discussions also

addressed a letter from the agency managers that explained the process they followed and why certain decisions were made. Subsequent to the meeting, managers provided a written reply emphasizing their understanding of the Board's position. The letter also disclosed revised procedures developed and implemented that will prevent a repeat of the procedural problems that prompted the complaint. These new procedures require two approval signatures, one of which must be a PE. This letter further recognized "that issuing an amended permit without a PE signature was not consistent with state law."

The case manager concluded that the letter, dialogue and changes implemented by the agency demonstrated a demonstrated a satisfactory solution. It was his recommendation to the Board that the voluntary actions of the agency are accepted and that no further action is considered. The Board approved that recommendation.

Subscribe To The Boards' Listserv

Don't hear it through the grapevine, get it firsthand. All you have to do is subscribe to the Board's Listserv. The listserv is easy to access and it's a great resource for tracking Board actions.

You can subscribe to the Engineer/Land Surveyor list and/or the On-site Wastewater list by going to either of the websites provided below.

Once you are at the website go to "What's New" and click on "Join mailing list". Enter your name and email address then just wait for the email message confirming your identity (this will also prevent third parties from subscribing you to a list). This message will have a confirmation code. Once you receive this message simply follow the instructions to confirm your free subscription.

An example of postings would be when the Board Journal is published. Those on the list will receive an announcement that they can go to the Board's website and view or download the Journal. If you are not interested in the subject line of the email, just delete the email. You may unsubscribe at any time.

The Board's listserv is just another way the Board is trying to reach out to its stakeholders and keep them informed.

Board's websites:

Engineers

<http://www.dol.wa.gov/business/engineerslandsurveyors/index.html>

On-Site

<http://www.dol.wa.gov/business/onsitewastewater/index.html>

ATTENTION LICENSEES AND INTERESTED PARTIES

We Need Your Opinion

The Department of Licensing has been asked by the Legislature to gather information on whether there is a need for Continuing Education for Professional Engineers. This subject came up as a result of legislation that was proposed during the 2010 Legislative Session.

The testimony before the Legislature also showed opposition to the proposal.

To develop a better understanding of how this proposal should be considered in the future, the Legislature wanted to hear from those who are interested in this topic. Responses to the following questions will serve as part of the information reported back to the Legislature by the Department. The Department's report is due to the Legislature by December 1, 2010.

To participate in the process we are asking for you take a few moments and respond to the following question:

Do you favor Continuing Education for Professional Engineers with compliance auditing by the Board?

Yes

No

Undecided

Please provide brief comments related to your position.

Please send your responses to the Board at the following email address:

BORPELS@dol.wa.gov

Because of the high number of comments expected to be received, Board staff will not be able to respond to emails sent to this address or to any phone calls on the same subject. However, when the agency report is completed and ready for distribution, it will be made available on the Board's website.

In addition to this written reply opportunity, the Board will host a workshop. The workshop will be:

6:00 PM

June 9, 2010

**Marriott Courtyard & Suites
Federal Way, Washington**

Attention Licensees: RENEWAL FEES

The Board of Registration for Professional Engineers and Land Surveyors is currently in the process of filing an amendment to chapter 196-26A WAC that deals with renewal fees for professional engineers and land surveyors.

The amended section sets forth a fee structure to suspend portions of the biannual renewal fees for PEs and PLSs. We are seeking a temporary decrease of a professional license renewal from the current \$116 to \$76 every two years. The adjustment to the renewal rate is made to balance revenue collections with expenditures. It is planned that this fee suspension will be effective for renewals that occur between August 1, 2010 and July 31, 2012.

This rule proposal was filed with the Office of the Code Reviser on April 14, 2010 and published in the Washington State Register as WSR 10-09-036. In addition, this proposal was distributed through the Board's listserv, and is available on the Board's website. <http://www.dol.wa.gov/business/engineerslandsurveyors/elchanges.html>

WAC 196-26A-110 Suspended fees. Effective August 1, 2010 the following fees will have the listed portions suspended from collection until July 31, 2012.

Fee categories	Current Fees	Portion Suspended	Temporary Fees
Engineer	\$116	\$40	\$76
Engineer late renewal penalty	\$174	\$60	\$114
Surveyor	\$116	\$40	\$76
Surveyor late renewal penalty	\$174	\$60	\$114

Legislature Passes Bill To Eliminate On-Site Advisory Committee

With the severe budget crisis at the state level, one measure that was started last year and continued again this year was the reduction of Boards, Commissions and Committees that were deemed unnecessary for the services provided by state government. One of those committees included in the "elimination" effort was the On-site Wastewater Treatment Advisory Committee that was established with the creation of the Onsite Licensing Program in chapter 18.210 RCW. Signed by the Governor on March 29th, the elimination becomes effective June 10, 2010.

While the elimination was a disappointment to many, current members of the Advisory Committee and many industry volunteers are willing to continue their support of the licensing program through exam development and technical reviews of rules and disciplinary issues. One remaining Advisory Committee meeting will be held May 4th. Part of the agenda of that meeting is to develop a plan to integrate the volunteers into the committee work presently part of the Board's meetings.

Other than the elimination of the On-site Advisory Committee, the licensing program established in chapter 18.210 RCW remains in effect. All provisions for licensing, examinations, education, practical experience and continuing education are unchanged.

If you are interested in reviewing the final bill language you may visit the website of the State Legislature and link to the history of HB 2617 at: <http://apps.leg.wa.gov/billinfo/summary.aspx?bill=2617>.

Message from the Chair

Andre J Sidler, PE, SE
Theodore E Smith, PE, SE
Geoffrey D Swett, PE, SE
John A Tate, PE, SE
Chester A Werts, PE, SE
Michael A Wright, PE, SE

Development of the Forest Engineering examination:

Dale Mix, PE

Development of Washington PLS exam, Survey Committee contributions and disciplinary assistance:

Aaron B Blaisdell, PLS
Kenneth A Brown, PLS
Gregory F Dussault, PLS
Gwen Gervelis, PLS
Justin J Holt, PLS
David M Icenhower, PLS
Steven B Ivey, PLS
John D James, PLS
Richard R Larson, PLS
Michaelk Sprouffske, PLS
Jerry W Sims, PLS
David L Steele, PLS
Ronald L Torrence, PLS
Tom Gray, PLS
Peter Brands, PLS
Mike Hathaway, PLS
Jim Wengler, PLS
James Coan, PLS
Howard Richardson, PLS
Donald Day, PLS
Brian Portwood, PLS
Alan Grissom, PLS

Development of the On-site Wastewater Design:

Warren (Dean) Bannister, Designer
Richard M Benson, PE, DOH
Ron A Dalle, Designer
Paul K Gruver, Designer (ret)
Ronald E Howard, Inspector,
David R Jensen, PE
David A Lenning, Consultant

Bettie E Perry, Designer
James L Sayre, Inspector, (ret)
Jerry B Stonebridge, Designer
William (Bill) Stuth Jr., Designer, Installer
Leslie C Turner, Inspector, DOH
Michael T Vinatieri, Inspector, Consultant
Cindy E Waite, Inspector
Stephen C. Wecker, Designer

Peer Reviewers and Pro-tem Board Members:

Jerry C Olson, PE, PLS
Walter O Dale, PLS
Kathleen D Cassou, PLS
Nancy Miller Duevel, PE, SE
Roger G Erlandsen, PLS

Past Board Members providing special assistance:

Daniel B Clark, PLS
Robert (Bob) Cray, PLS
Carol L Fleskes, PE
Umesh Vasishth, PE, SE
Al Hebrank, Jr. PLS
Lyle J Hansen, PE
Harold (Hal) Williamson, PE
Dan R Waltz, PE
Wilho Williams, PE, SE

Board liaison, Washington Society of Professional Engineers(WSPE):

F. Duane Duff, PE
John Lansberry, PE

Board liaison, Land Surveyors' Association of Washington(LSAW):

James Wengler, PLS

Board Committee volunteer for NCEES Western Zone, Spokane meeting in 2011:

Beth Hodgson, PE

To everyone (including the wonderful people I regretfully overlooked), please know that we are so very grateful for your generous contributions to the board. Our professions and the citizens of our great state benefit from your hard work and dedication. Thank you all.



Board of Registration for Professional
Engineers and Land Surveyors
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