



Civil Engineer

THE NEWSLETTER

APRIL 2005

Honors and Awards
Update on AELC

TUESDAY,
APRIL 12TH

Tyce Center
Room #3
5757 Littlerock Rd.
Olympia, WA 98512
(see page 4 for directions)

5:30 – 8:30 pm

*Cost:

\$25 per person

* Students half price

To make your reservations:

Please contact Connie
Linden @ 253.123.4567 or
e-mail clinden@aol.com by
noon on Monday, April 11th.

Rock and glacier
deformation
during the
ongoing
eruption of
Mt. St. Helens



Speaker: Joseph Walder, Hydrologist

Joseph Walder received his Bachelor of Science Degree for Geophysics from the California Institute of Technology. He went on to pursue his Master of Science Degree in Geology from Stanford University. Joseph has completed his Ph.D. in Geophysics at Stanford University Post-doctorate at the University of Washington USGS Cascades Volcano Observatory since 1989.

At his current job with the USGS in Vancouver, WA, his official job classification is “hydrologist”. What this means in practice is a focus on volcano hazards linked in some way to hydrological processes. Joseph will be talking about Mt. St.



Helens volcano and how it has been undergoing rapid, peculiar deformation. Mr. Walder will discuss the styles of deformation associated with magma movement and emplacement of the new lava dome.

Has your address changed? Ours has!

As of February 25, 2005, ASCE's Washington Office, housing the Society's Government Relations Department, will move to its new, permanent home on Capitol Hill. Please make note of our new contact information:

ASCE Government Relations
101 Constitution Avenue, NW
Suite 375 East
Washington, DC 20001
Phone: 202-789-7850
Fax: 202-789-7859
govwash@asce.org

IF YOUR ADDRESS OR CONTACT INFORMATION HAS CHANGED, REMEMBER YOU CAN LOG IN TO [HTTP://WWW.ASCE.ORG/MEMBERSONLY/](http://www.asce.org/membersonly/) AND UPDATE YOUR PROFILE.

*Don't worry if you can't remember your password....
ASCE will send you a new one!*

CONGRATULATIONS!

At this month's meeting we will be presenting awards and honoring several people who have made a significant impact on the Civil Engineering profession in the Tacoma/Olympia area. One such member is Dennis Burke, which we are proud to recognize as a *Life Member*.

Mr. Dennis Burke was born in Seattle, Washington. He graduated from St. Francis High School in La Canada, California and attended the University of Santa Clara, California as a mathematics major for two years.

Dennis worked in Alaska for four years in the early sixties as a seismic analyst for several oil exploration firms and as an engineering aide for the City of Anchorage Engineering Department.

He attended the University of Washington in the mid-sixties and graduated as a Civil Engineer in 1969. After graduation, Dennis worked for a large east coast engineering firm as a Project Manager and designed several municipal secondary sewage treatment facilities and a municipal water treatment plant. He became the Director of the Sanitary Engineering Department where he was responsible for the design of seven municipal wastewater treatment facilities in Pennsylvania and New York.

Dennis joined another large environmental consulting firm (now U.S. Filter) as a Project Manager in the Industrial Waste Division where he designed industrial waste treatment facilities for U.S. Steel, Alcoa, Caterpillar Tractor, Borden Foods, St. Joseph Mineral Corporation, IBM, and a variety of other industrial plants throughout the United States.

He became the Vice President and Director of the Environmental Studies

Division for the east coast consulting firm and developed numerous municipal waste treatment Facility Plans (201) and four area wide Waste Management Plans (208) for the Environmental Protection Agency.

Dennis returned to Washington in 1970 and started his own design and construction firm building a variety of water and waste water systems throughout Western Washington. From 1990 to the present, he has specialized in the design and construction of anaerobic digestion facilities throughout the United States. He has just completed the design and construction of a large anaerobic digestion facility for a 3,500 milk cow dairy in Indiana and is designing a larger facility treating cheese (whey) waste from Kraft Foods and a 3,500 milk cow dairy in upstate New York.

He currently holds eight patents on anaerobic digestion, liquid solids separation and nutrient recovery from concentrated waste streams.



Interested in becoming a Life Member?

To find out if you are eligible
please see the ASCE Life
Member website at:

<http://www.asce.org/membersonly/lifemember.cfm>

WELCOME SPRING!

Everything is blooming, spring-cleaning is in the air, a happy restlessness permeates our beings! Time to wake up! Time to get moving! We have enjoyed an exceptional winter season, and spring promises to be even better. The days are noticeably longer and everywhere I go people are excited about the things they are doing.

In light of all of this newfound energy and enthusiasm please consider volunteering at our booth at the Puyallup Fair. The fair isn't until September, but our May Meeting will be the last regular meeting before the Fair and I want to be sure to invite every one (more than one time) to participate.

Our old barn at the fair has been replaced with a new pavilion. We (the education barn folks) will be located in the pavilion that formerly housed the quilts. This is a much nicer building with lots of room. We have been given a preview of our location and it is great. All we need now

“...we would like to introduce some new material to the program. We will need approximately 45 volunteers to work in our booth. It is a great opportunity to reach kids...”

is a good program and plenty of energetic volunteers. The board is working on selecting a program to implement. For the past four years we have run the West Point Bridge competition. This year we would like to introduce some new material to the program.

We will need approximately 45 volunteers to work in our booth. Shifts will vary in length from four to six hours. The fair will begin on Friday and our last day will be Tuesday. One of the comments that I have heard over and over again is what a positive experience it is to work the fair booth. It is a great opportunity to reach kids and many people who do not ordinarily have access to engineers.

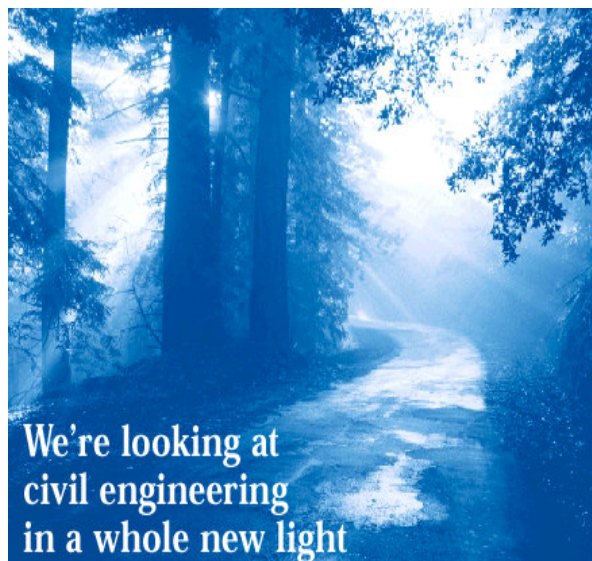
Thank you for all of your support,

Kathy Hargrave
Tacoma/Olympia Section President 2004-05

ASCE “Raise The Bar” Newsletter

The Board-level ASCE Committee on Academic Prerequisites for Professional Practice (CAP³) has continued its effort to raise the educational requirements for future practicing civil engineers at the professional level. This effort is an on-going, long-term effort. Below is a summary for each of our committees.

We have initiated a new subcommittee to the Committee in Academic Prerequisites for Professional Practice (CAP³). The **Levels of Competency Subcommittee** is charged with the following: Review the background on how the levels were created in current version of the BOK; Address concerns regarding educational objectives and assessment challenges related to



the levels; Review terminology used by ABET and consider how this is related to the levels; Recommend possible changes to the names and definitions of the different levels of competence used to define the civil engineering BOK; Recommend possible changes to the BOK profile that integrates outcomes, levels of competence, formal education, and pre-licensure experience; Coordinate with the CAP³ Curricula and Accreditation Committees and the ABET Accreditation Council; and Prepare a draft report that provides a record of the Sub-committee's opinions, plans, actions, and recommendations by **May 1, 2005**.

Body of Knowledge Fulfillment and Validation Committee

Under the leadership of Gerry Galloway, the committee has prepared a draft report related to how the BOK is fulfilled and how the attainment of the BOK can be validated. The report will be officially released in mid-April of this year. Key findings in the report include the following: the B + 30 credit pathway is a viable way to fulfill the BOK; there are several possibilities for organizations that could validate the acceptability of alternative education providers and of the coursework taken beyond the bachelor's level, including ACE,

NCEES, and ABET. We will need to engage the possible players in the next 3 years as we move toward implementation.

Curricula Committee

The Curricula Committee has prepared an outline for their final report. The committee will fulfill its charge by the end of this calendar year. The committee continues to work on mapping the BOK relative to actual curricula. This process has identified many practical issues regarding aspects of the BOK. John Tawresey is chairing a subcommittee that is charged with reviewing the "Attitudes" section of the BOK. John has secured a very diverse committee and will be forwarding some recommendations in the coming months.

The committee has also added the following schools to their activity: University of Illinois-Urbana Campaign and Tufts University. We have meetings arranged for University of California-Berkeley, University of Texas at Austin, University of Wyoming, and Tennessee Tech in the coming 2 months.

Licensure Committee

The licensure committee has been busy assisting in the National Council of Examiners for Engineering and Surveying

regional meetings. A presentation is being given at these meetings that covers a number of possible changes to the Model Law. One change of interest to the raise the bar effort is requiring additional education beyond the BS at some time in the future. It is possible that at the NCEES annual meeting in Nashville, TN in August of this year that the organization could vote on recommending changing the Model Law to require additional education in the future. This would then launch another committee within NCEES to look at the specific language that would be necessary to make this happen. NCEES has been a great partner in our effort. We have also received a strong letter of support from the State of Nebraska Board of Engineers and Architects for our effort to raise the education bar. We are making steady progress in the licensure area.

Accreditation Committee

The accreditation committee has had some changes in leadership. Wayne Bergstrom has become the chair of the committee and Stephen Ressler is the vice chair. The committee has drafted the following products: basic level civil engineering criteria along with supporting commentary and advanced level general criteria. The committee continues to rework these products based upon input from key ASCE stakeholders (EdAC, DHCEC, CC&A, and Department Chairs/Heads). These products will be publicly released at the ASCE National Department Chairs meeting in May at Salt Lake City as well as in June at the American Society for Engineering Education (ASEE) conference in Portland, Oregon. We hope to meet with the ABET Engineering Accreditation Commission during their July meeting in the Washington area.



Questions or suggestions,
please contact Jeffrey S.
Russell at:
mruss11@engr.wisc.edu

Section Calendar

2005

April- Honors and Awards. April 12th at the Tye Center in Olympia. Note directions below.

May- Last section meeting before summer break. Week of May 9th, date to be confirmed.

September- Puyallup Fair and Joint meeting with SEAW. Week of September 19th, date to be confirmed.

Section Meetings are open and held once a month, September through May. Meetings are generally held on the second Tuesday of the Month. Locations alternate between Tacoma and Lacey, and times vary between lunch and dinner meetings.

Local Board Meetings are open and generally held the first Monday of the month at 5:30 pm. Locations vary. Please check the website, his calendar, or contact the president for confirmation.

<http://sections.asce.org/tacoly/tacoly.htm>

Directions to Tye Center:

From I-5 south-bound:

Take the TROSPER RD. exit (#102) towards BLACK LAKE. Turn RIGHT onto TROSPER RD SW. Take left lane. Turn LEFT onto LITTLEROCK RD SW.

Tye Center is in the plaza on the right opposite Costco Gas, a little offset from the main road

TRANSPPEED Courses

Please view our website at <http://www.engr.washington.edu/epp/Transpeed/index.html> for specific course descriptions and dates. Click on the specific course link to view the course outline.

Christy Pack
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10303 Meridian Ave. N #301
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Managing Consultants
Lacey, April 6, 2005

Technical Communication for Transportation Professionals
Lacey, April 11-12, 2005

Determining Contract Working Days
Seattle, April 19, 2005

Bridge Foundation Design
Lacey, April 26-28, 2005

Work Zone Traffic Control Plan (TCP) Design
Lacey, May 3-5, 2005

Traffic Engineering Operations
Seattle, May 9-11, 2005

2005 Winter/Spring Professional Development Short Courses

For a complete description of the course registration information, visit our website <http://www.engr.washington.edu> or call us at: Engineering Professional Programs, University of Washington, phone: 206-543-5539, fax 206-543-2352 or toll free 1-866-791-1275

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(direct) 206-685-9682
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stacyw@u.washington.edu
(direct) 206-543-5743

Watershed Protection Institute
March 28-April 1, 2005 | Shepherds town, WV

Achieving Real Success as a Project Manager
April 21-22, 2005 | Seattle, WA

Stormwater Treatment by Media Filtration
April 26-27 | Seattle, WA

Infiltration Facilities for Stormwater Quality Control
May 10-11, 2005 | Seattle, WA

Project Leadership Workshop
May 18-19, 2005 | Seattle, WA

Tacoma/Olympia Section Board 2004 – 2005

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