

CIVIL ENGINEER



T H E N E W S L E T T E R

Tacoma ♦ Olympia Section of the
American Society of Civil Engineers



Volume 63

Founded 1930

FEBRUARY 1999

**CIVIL ENGINEERS MAKE THE DIFFERENCE!
THEY PROVIDE THE QUALITY OF LIFE!**

The **Civil Engineer Newsletter** is published for the Tacoma/Olympia Section of the American Society of Civil Engineers monthly from September to June.

To submit ads or articles of interest, please contact the President of the Section or the Editor. Information must be submitted not later than the 15th of the month prior to publication.

For address changes and corrections, contact the Editor.

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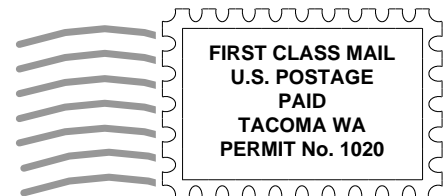
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CIVIL ENGINEER
The NEWSLETTER

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FEBRUARY MEETING

**Friday
February 12, 1999
Worthington Center
Saint Martin's College
Lacey**

Wine & Cheese
6:00 p.m.
Baked Cod or Baron of Beef
7:00 p.m.

Cost \$15
RSVP REQUIRED

Tunnel Projects Around the World

Dr. Harvey W. Parker, P.E.
President & CEO
Harvey Parker & Associates

This is a combined meeting of the Engineering Societies and the Engineering Division of Saint Martin's College. Please try to attend this meeting. Our support of this group is important to the future of our section.

Reservations

RSVP by Monday, Feb. 8th to Ron (360) 438-4320 or Email Ron at ronw@crc.stmartin.edu.

Directions to St. Martin's Worthington Center

From Tacoma: I-5 south to Martin Way (Exit 109); bear right to College Street (the next signaled intersection); turn left on College; travel south to Pacific Avenue; turn left on Pacific to the entrance to Saint Martin's Pavilion on the left.

From Olympia: Take either Pacific Avenue to Saint Martin's or I-5 north to Sleater-Kinney/ College Street (Exit 108); continue to College Street; turn right and proceed to Pacific Avenue; turn left on Pacific to the entrance to Saint Martin's Pavilion on left.

ASCE Recruiting For New Congressional Leader

ASCE is now accepting applications for a new 1999-2000 Congressional Fellow. The Fellowship offers an opportunity to spend a year on Capitol Hill working as a staff Member, either on a committee or for an individual member of the U.S. Senate or House of Representatives. As a fellow, you will gain hands-on knowledge of congressional decision-making.

Congress makes important decisions on a multitude of technical issues, many of which directly impact how Civil Engineers conduct their professional practice. And Congress will make these decisions with or without technical expertise. The ASCE Congressional Fellows program works to ensure that sound technical advice is available.

Tim Hess, ASCE's second Congressional Fellow, recently completed a very successful year. He was heavily involved with the reauthorization of the nation's surface transportation programs. The final legislation, the Transportation Equity Act for the 21st Century, benefited from his technical advice. Tim has stated that it was a "wonderful, rewarding and challenging year and I would highly recommend it to all interested ASCE members."

The Fellowship year begins on September 1, 1999 and runs through August 31, 2000. Applications are due by April 2, 1999, with the selection of the Fellow to be announced by early June. ASCE will provide a stipend and some relocation expenses.

If you have questions or would like an application, please contact Martin Hight in the ASCE Washington Office at 202-789-2200, at 1-800-548-2723, ext. 5125 or E-mail to: mhight@asce.org.

Educational Trade Show

The Southwest Chapter SEAW held its Third Annual Educational Trade Show and Seminars January 27, 1999, at the Best Western Executive Inn Tacoma/Fife. There were twelve seminars held from 3:00 to 6:00 p.m. with the Trade Show opening at 5:00 p.m.. The event was free to members of SEAW, ASCE, and SAME. This is the only show of it's kind in the Puget Sound region for engineers.

For information about future trade shows and seminars contact Sarah Porter at (253) 620-7459 or E-mail her at sarah.porter@apawood.org.

Civil Engineer, The Newsletter

This newsletter is a function of the section, and your thoughts announcements, articles, essays, and letters to the President or editor are welcome at any time. Deadlines are the 20th of the month, with distribution by the first week of the next month. Contributions submitted to the President before the 20th of the month will definitely make the next newsletter, and after that, you take your chances.

Welcome New and Transferred Members

The Tacoma-Olympia Section is pleased to welcome the many new and transferred members that were assigned to our section during the last year. You and your guests are more than welcome at all of the section activities, and we invite you to support these activities by joining the section if you have not already done so.

We are also pleased to have attracted the volunteer services of engineers of both genders, in all stages of practice, working in public and private occupations, and from both the Tacoma and Olympia area. There are opportunities for everyone to participate and we urge you to come check us out.



Post Card Experiment

Hello again and Happy New Year! Our postcard experiment seemed to work well for some, but not all of you. In any event I have gained a new appreciation for the newsletter and our editor as a result of this experiment. Most of you told me that you read the entire newsletter and I realized that I do too. So I am currently planning an analog newsletter for the time being which will be to sent to members who have paid section dues. We may also send postcards to the rest of our section membership to notify them of our section meetings.

Section Meetings

Speaking of section meetings, our January lunch meeting on the 11th Street Bridge had 46 people in attendance - - far and away our best attendance in a while. Was it the topic, or the meeting time, or the postcards, or January boredom? - please advise. Thanks to Connie Linden of AHBL for arranging the room and putting up with our last minute chaos.

Our next meeting is the Saint Martins Engineering Banquet on Friday, February 12. This meeting is an important gesture of support to St. Martin's and their student chapter, so please try to attend.

Our March meeting will be a joint meeting with the Society of American Military Engineers at McChord. In the past this meeting was scheduled once a year in the fall, but the timing conflicted with our installation of officers (October) and with theirs (January) so spring seems better. Our speaker will be Joe Gildner of Sound Transit, so it should be interesting. Please plan to join our military colleagues for this one.

Feedback

Well, as you can see we are off to a good start this year. Your feedback is always welcomed and can only make a good year great. Please address questions, comments, statements, and opinions to JBrigham@GeoEngineers.com.

p.s. Where do Forest Rangers go to "get away from it all"?

Jim Brigham, President
Tacoma Olympia Section
Jim Brigham, President
Tacoma Olympia Section
JBrigham@GeoEngineers.com

Positions Wanted/Positions Open:



Resume Policy: Our section newsletter will provide free space for ASCE students and members to advertise their qualifications. The resume information needs to be received by the 20th of the month to make the next newsletter. If you still don't have a job, send it again the next month. The resume information is limited to: Name, Engineering Degree/Year, Position Desired, Years of Related Experience, Membership Status, ASCE section, Address to obtain more information, and Daytime Phone. Please send information to JBrigham@GeoEngineers.com

January 22, 1999

City of Tacoma Washington – Commercial Plans Examiner, with GeoTechnical Specialty. Requires Degree in Engineering or Architecture, a Washington State Engineering or Architectural License, and a strong GeoTechnical engineering background.

Specific activities include, but are not limited to, reviewing plans to assure compliance with the building, mechanical, plumbing and energy codes for life safety, exiting, fire-resistance, barrier free design, structural adequacy, HVAC system design, lighting, ventilation, heat loss, duct sizing, plumbing waste and venting, supply piping, gas piping and other associated building aspects. Position requires ability to make sound decisions and deal effectively with the public.

Approximate Salary Range: \$4,432 Starting to \$5,386 maximum per month with a Washington State Engineering or Architectural License, and \$5,068 starting to \$5,590 maximum with a Washington State Engineering or Architectural License, and an ICBO Plans Examiner Certificate.

For Application Materials Contact: The City of Tacoma Human Resources Department, 747 Market Street, Room 1336, Tacoma, Washington 98402. (253) 591-5400 or www.ci.tacoma.wa.us.com.

You Are INVITED

All ASCE colleagues of any membership grade living or working in Grays Harbor, Lewis, Mason, Pacific, Pierce, or Thurston Counties are invited to join our section. Slightly more than half of the 400+ ASCE colleagues in our area have chosen to participate in our local organization, and we hope you will too.

ASCE at the local level is much more than the Civil Engineering magazine and national programs for publications, research, lobbying, and insurance. The Tacoma-Olympia Section presents a wide range of lecture and discussion topics at our meetings, but they are all tied together with a theme of northwest engineering activity.

Section members receive monthly newsletters from September to June, timed to serve as meeting announcements and reminders. The newsletter, along with the Web page (see masthead) are the primary means of communicating the many local items such as education programs and changes in the local and state regulations concerning engineers.

We are pleased to have this opportunity to invite colleagues from the national organization to join in our local organization as well. Look for the Section Dues check-off box on your annual renewal notice. The fee charged for section membership supports the many activities of the section.



BOOK Review:



BUILDING WASHINGTON

By Paul Dorpat and Genevieve McCoy

At our January meeting, Bob Moorhead announced that this book is finally available. Originally planned by APWA to commemorate our state centennial in 1989, the book has grown into a 523 page history of public works construction in Washington State. The book contains over 1,400 photographs and is both a history of Civil Engineering and a history of the state which the authors have made readable and interesting. This book was reviewed in the Seattle Times Lifestyle section on January 10, 1999. You can order it using the form below.

Published by the Washington State Chapter, American Public Works Association First Edition limited to 3,000 copies Cost: \$50.00, plus \$4.30 Washington State Sales Tax (includes delivery via UPS) Net proceeds benefit the Washington State Chapter APWA Scholarship Fund

Make check for \$54.30 payable to APWA Foundation

Mail orders to: Kato & Warren
2003 Western Avenue, Suite 555
Seattle, WA 98121

Name _____

Address _____

City, State, Zip _____

Bridges Across America Competition for Grades K-12!		
• Registration Form	5. Support	10. Winners & Next Step
1. Schedule	6. School Levels	11. Competition Locations
2. Contest Levels	7. The Competition	12. Tips
3. Objectives	8. Spread the Word	13. More To Come
4. Rules & Parameters	9. Testing Procedures	• Press Releases

Now - November 1999
Schools register for competition via K'NEX web site

September 1999 - January 2000

Schools study bridge concepts
Community engineer visits

February 2000

National Engineers Week
School-level Competition Kick-off

March 2000

District-level competitions

April 2000

City-level competitions

May 2000

Zone-level competitions

June 2000

National-level competition

**Go
Here
for
Details!**

[www.knexeducation.com/
bridgecontest.html](http://www.knexeducation.com/bridgecontest.html)

Or Link from the ASCE Web
Page!

ASCE Annual Calendar

The Tacoma/Olympia section holds open meetings once a month from September through June.

Meetings are typically held on the second Tuesday of the month, but can vary for special speakers or joint meetings. Locations alternate between Tacoma and Lacey and times vary between lunch and dinner meetings.

Our preliminary schedule is shown below. Please check our web page or contact a house chair for firm information one week prior to each listed meeting. Or, for a monthly meeting announcement and newsletter mailed to your address, please join the Tacoma-Olympia Section (in addition to the national organization).

We have also included the Seattle Section meeting for your information - Contact HLA @ 425-990-4164 for further details.

February 12 - Dinner (Friday) Saint Martin's - Engineering

March 10 Lunch - McChord AFB - Joe Gildner, Sound Transit - Joint Meeting with SAME

April 13 Dinner - St Martins - OLD TIMERS NIGHT, Nick Handy, Port of Olympia, Cliff, Webster, AELC

May 11 Dinner - Curtis Ratchliffe, Port of Tacoma, Hyundai Terminal

June 8 Lunch - St. Martins - Verne Moore, Weyerhaeuser Dupont Environmental Remediation

September 14 - Tacoma- Ken Buss, GeoEngineers, Kelso Landslide

October 12 - Seahawks Stadium

The local Board conducts open meetings, generally the first Wednesday of the month at 5:30 PM. Locations vary, so please contact the President for the location if you would like to attend a Board meeting.

FE(EIT) EXAM and PE (CIVIL) EXAM REVIEW COURSES

FE (EIT) EXAM REVIEW COURSE: Feb.2 - April 8 (20 classes total) Tuesday & Thursday, 6:00-8:00 PM
COURSE FEE: \$ 250.

Topics: Ethics, engrg. economics, materials science, computers, mathematics, thermodynamics, electrical circuits, statics, dynamics, mechanics of materials, fluid mechanics, and chemistry.

PE (CIVIL) EXAM REVIEW COURSE:

Feb. 3 - April 7 (10 classes total) Wednesdays, 6:00-9:00 PM
COURSE FEE: \$ 350. (\$ 300. for SMC alumni)

Topics: Engrg. economics, hydraulics, water supply, sewage, wastewater treatment, mechanics of materials, structural analysis, soils, foundations, reinforced concrete design, wood design, structural steel design, highways, pavements.

TO REGISTER: Send your name, address, phone, and course fee to:
Ron Vandergriff, Admin. Assistant
SAINT MARTIN'S COLLEGE, Engrng. Division, 5300 Pacific Avenue SE, Lacey, WA. 98503-1297, Phone (360) 438-4320 .

PELP Programs

For additional information about these or other PELP courses, or to have your name added to the course announcement bulletin mailing list, contact Ron Bucknam, PELP Program Director. PELP Program Director, at 206/543-1178; fax: 206/685-3836; or E-mail: rbucknam@u.washington.edu.

All courses will be held on or near the University of Washington campus, unless noted otherwise.

To register for a course, please call Engineering Professional Programs at 206/543-5539. Early registration fees are applicable until two weeks before commencement of the scheduled course. Additional information is available on the internet at: <http://www.engr.washington.edu/epp/Pepl/peplcal.html>

Spring 1999 Course Calendar

New Technologies and Concepts in Stormwater Treatment

February 10 and 11, 1999:
8:00 a.m. - 5:00 p.m.
\$345 (early registration)/\$375

How to Successfully Use Value Engineering in Capital Projects

February 17 and 18, 1999:
8:30 a.m. - 4:30 p.m.
\$345 (early registration)/\$375

Effective Writing for Technical Professionals

February 25 and March 2, 4, 9 and 11, 1999 (five sessions):
3:30 - 6:30 p.m. \$320 (early registration)/\$345

Groundwater Monitoring for Water Purveyors

March 17 and 18, 1999:
8:30 a.m. - 4:30 p.m. \$345 (early registration)/\$375

Alternative On-Site Stormwater Management Techniques

March 25 and 26, 1999: 8:30 a.m. - 4:30 p.m.
\$345 (early registration)/\$375

Stormwater Treatment by Media Filtration

April 7 and 8, 1999: 8:30 a.m. - 4:30 p.m.
\$345 (early registration)/\$375

Quaternary and Engineering Geology of the Central and Southern Puget Sound Lowland
April 15, 16 and 17, 1999: 8:30 a.m.-4:30 p.m.
\$380 (early registration)/\$420

Design and Retrofit of Culverts for Fish Passage in the Northwest

May 12 and 13, 1999: 8:30 a.m. - 4:30 p.m.
\$345 (early registration)/\$375