



## **MAY Meeting**

### **Field Trip**

**SATURDAY, MAY 17<sup>th</sup>**

#### **Port of Tacoma Gog-Le-Hi-Te Mitigation Site**

##### **Directions:**

##### **From I-5 Southbound:**

Take Exit #135 (Portland AV);  
Turn right (north) on Portland AV.

##### **From I-5 Northbound:**

Take Exit #134 (Portland AV)  
Turn left (north) on Portland AV.  
Go through the light at Puyallup  
AV; under the SR 509 bridge; pass  
Tacoma's Central Treatment plant  
on your right and turn left on Lin-  
coln AV.; after passing Stewart ST  
on the left, turn right into the park-  
ing lot of Gog-le-hi-te wetland.

**Gather at site: 10:30am**

**Lunch: noon**

**Lunch:** Porter's Place  
(Bar-B-Q) by menu  
3579 Portland AV, Tacoma

**RSVP: Contact Kay Hoke at**

[khoke@cityoftacoma.org](mailto:khoke@cityoftacoma.org)

**or 253.591.5760 by**

**Wednesday, May 14<sup>th</sup>**

## **Summer Recess — June-August 2008**

September 10, 2008

(after summer recess):

*Lincoln Street Bridge*; Joint  
meeting with Structural Engineer-  
ing Society (SEAW)

## **Port of Tacoma Gog-le-hi-te (Puyallup Indian word: "Where the Land and Waters Meet") Habitat Action Project**

The Gog-le-hi-te II Habitat Action project was constructed by the Port of Tacoma in 2007. The project is mitigation for development projects the Port undertook on the Blair Waterway, including filling the Barge Slip (used for loading barges for the construction of the Alaska Pipeline in the 1970s) and cutting back the Bridge Reach (the narrow spot on the Blair where SR 509 crossed the waterway when 11th Street was SR509). The Gog-le-hi-te site is located on a former city dump on

property partly owned by the Port and partly owned by the Puyallup Tribe. The project included excavation and disposal of approximately 145,000 tons refuse and contaminated soil; construction of a set-back levee to USACE standards; collecting, treating and disposing of surface and subsurface water; sculpting the habitat area; and breaching the existing levee. The site will be planted with native plants this spring. ■

## *Speaker*

Speaker: **Bruce McDonald, P.E.**,  
Project Manager, Port of Tacoma  
Gog-le-hi-te II Habitat Action Project

Bruce has worked at the Port for about two and a half years. His current projects are a 600-foot extension to the wharf at the Washington United (Hyundai) Terminal; the Lincoln Avenue Grade Separation; and an access road with utilities to a Port property in Frederickson. Prior to joining the Port, he worked as an environmental consultant for 14 years, working at Anchor Environmental, Foster Wheeler Environmental, and Black & Veatch Waste Science. He also has worked on NOAA oceanographic research ships, on a crab fishing boat, and in the oil

fields of the North Sea and Gulf of Mexico as a life support technician on saturation diving systems. Bruce received his BSCE from the University of Washington in 1991.

“**Engineers Make the *Difference*...  
They Provide the *Quality* of Life!**”



**Bernie Hargrave** P.E., PMP

**O**n Saturday, May 17th, we will be conducting a field trip to the Port of Tacoma's Gog-le-hi-te mitigation project. Plan to join us and enjoy the sunshine, but pack rain gear just in case! Afterward, we will meet for lunch at Porter's Place Barbeque. This should be a fun, family event so leave

the pocket-protectors, HP calculators, and 0.5mm pencils at the office and gather the clan!

The Gog-le-hi-te—pronunciation starts like the safety glasses, not the Internet search engine, so, Gog-Lee-Hi-Tee—is the Puyallup Tribe's word for "Where the Land and Waters Meet" and the project epitomizes new sensibilities in 21st century civil engineering. We now know that the Puget Sound's resources are vast yet, finite. Natural processes we once attempted to tame by throttling their effects are now understood to represent the essential forces of renourishment by moving such things as nutrients, estuarine waters, and sediment for biota to thrive. The site also demonstrates our clear imperative to reverse the devastating effects of legacy human pollution.

The circulation of Puget Sound tidal waters is a fascinating study. During flood tides, dense cold saltwater slides under lighter freshwater which pours from the Puyallup River and 10,000 other Puget Sound streams. Yet, the intuitive assumption that has long driven uninformed disposal of contamination in Puget Sound has the flushing action all wrong. Oceanographic sills, like the Tacoma Narrows sill, act as submerged dams which prevent deep water from readily exiting. Instead, those waters remain for protracted periods sloshing back and forth while slowly mixing with the lighter, surface waters. The "boot" of Hood Canal and the many inlets of south Puget Sound suffer deteriorated water quality during times when mixing is slow and decaying algae blooms earlier activated by sunlight and nutrients suck the oxygen from the waters.

Projects like the Gog-le-hi-te contribute to reversing damaging effects of poor water conditions and habitat losses. Shallow intertidal vegetation sequesters nutrients and serves as a submerged forest canopy for juvenile salmon. The Puyallup River estuary, site of the Gog-le-hi-te, is positioned in the center third of Puget Sound. Now, we understand that a second, intuitive myth must be dispelled. Young Puget Sound Chinook salmon once were thought to make a beeline for the ocean after leaving natal rivers. Yet, miniaturized radio telemetry has allowed researchers to track young, tagged fish from as far away as the Skagit River to the estuary where they grow large enough to survive ocean conditions. Many of the Puget Sound's other 220 fish species use the estuary. For instance, bull trout have a much different life history than Chinook. Bull trout return repeatedly as adults into the rivers to spawn, feed and then make their way back to the estuary. One tagged bull trout was caught numerous times upstream of the Gog-le-hi-te at the Corps of Engineers fish trap on the White River downstream of Mud Mountain Dam.

He (or she) was trucked past the dam, released unharmed, then in the course of conducting his affairs swam downstream, eventually returning to the trap designed to safely hold upstream migrants...and the real-life stories of other species continue to astound us as we learn more. Green sturgeon born only in California's Sacramento River are discovered in Puget Sound, or, an even more distant, rare traveler—a Slate-Back Gull from the Euro-Asian continents was spotted repeatedly at the Gog-le-hi-te. Less than 5 of his species have ever been spotted in North America. Clearly the Port of Tacoma is home to more than ocean-crossing vessels.

Come enjoy Bruce McDonald's presentation on the ASCE field trip to Gog-le-hi-te.

All the best,

Bernie Hargrave

2007-2008 Tac/Oly Section President

P.S. A link to a Gog-le-hi-te research paper is available at this link: [Functional Equivalency Trajectories of the Restored Gog-Le-Hi-Te Estuarine Wetland.](http://www.jstor.org/action/showPublisher?publisherCode=esa)

Charles A. Simenstad and Ronald M. Thom

Ecological Applications, Vol. 6, No. 1 (Feb., 1996), pp. 38-56

Published by: [\\_Ecological Society of America\\_ \(http://www.jstor.org/action/showPublisher?publisherCode=esa\)](http://www.jstor.org/action/showPublisher?publisherCode=esa)

### Update on the new Tacoma-Narrows Bridge at ASCE's OPAL awards:

Tacoma/Olympia Section is proud to help sponsor the OPAL Awards where our local project, submitted by the design-build team of Kiewit and Bechtel, is a contender in the most prestigious civil engineering award ceremony. As we go to press, the award is imminent.

Congratulations to Washington State Department of Transportation and the bridge team on their significant accomplishment!

## Woodrow Wilson Bridge Named Top 2008 OCEA Project As Society Celebrates Its Best At OPAL Awards Gala

In a tough field that included impressive engineering projects in India, California and Washington state, an all-new Woodrow Wilson Bridge serving the Washington, D.C., area has been selected ASCE's winner of the Outstanding Civil Engineering Achievement for 2008. Using a variety of innovative techniques, the joint project of the states of Virginia and Maryland and the District of Columbia replaces an inadequate, aging 47-year-old span, helping to relieve a major bottleneck for commuters on the busy Capital Beltway, Interstate 495. The OCEA winner was announced at the Society's premiere black-tie event, the OPAL Awards Gala, held Wednesday evening in Arlington, Va., where the 2008 Outstanding Projects and Leaders honorees and other major award-winners were saluted.

For more information on the Opal Awards go to: [asce.org](http://asce.org).

# SECTION CALENDAR and ENGINEERING RESOURCES



## Section Calendar

### Tacoma/Olympia ASCE Section Meetings/Activities

**MAY 17th** - Saturday Field Trip to Port of Tacoma Gog-le-hi-te Wetland

ENJOY Your Summer!

**September 10th** - Lincoln Street Bridge; Joint meeting with Structural Engineering Society (SEAW)

\*DATE/TIMES/LOCATIONS TO BE ANNOUNCED/VERIFIED

### Tacoma/Olympia ASCE Board Meetings:

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

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

## See Your AD Here!

### Advertise in our newsletter!

Post a business card sized ad in our newsletter for \$200 per year. **Interested?**

Contact:

**Bernie Hargrave...**

[Bernard.L.Hargrave.Jr@nws02.usace.army.mil](mailto:Bernard.L.Hargrave.Jr@nws02.usace.army.mil)

## Younger Member Forum Activities And Update

### Younger Member Newsletter

[www.asce.org/inside/cym\\_pubs.cfm](http://www.asce.org/inside/cym_pubs.cfm)

For more information on Upcoming Events & Activities for Younger Member programs, contact: **Brook Maples** at [brookm@gmail.com](mailto:brookm@gmail.com)

## Continuing Ed

For scheduled seminars in your geographic area are available on ASCE's website at [www.asce.org/conted/seminars](http://www.asce.org/conted/seminars).

These in-depth, practice-oriented programs are produced by ASCE's Continuing Education Department and may be of interest to many ASCE members in your Sections and Branches. We would greatly appreciate if you would consider positing information on these seminars in your newsletters and on your websites.

If you have questions or need assistance, please contact:

**Kelly Jarvis, Continuing Education Registrar** at [kjarvis@asce.org](mailto:kjarvis@asce.org) or

**Michael Cook** at [mcook@asce.org](mailto:mcook@asce.org).

## TRANSPEED Courses

For a complete list of courses, visit the 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, or contact:

**Julie Smith**

**Engineering Professional Programs**

**Phone: 206-543-5539**

**Toll-Free: 1-866-791-1275**

## 2008 Professional Development Short Courses

For a complete description of the course and 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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**Stephanie Strom, Program Mgr:**

[ssstrom@u.washington.edu](mailto:ssstrom@u.washington.edu)

**(direct) 206-685-9682**

**Stacy Williamson, Prog. Coord.**

[stacyw@u.washington.edu](mailto:stacyw@u.washington.edu)

**(direct) 206-543-5743**

## Positions Wanted/ Positions Open

**Job Announcement Number 204608**

**CONSTRUCTION MANAGER, ASSOCIATE  
City of Tacoma, Washington**

**Open Continuous**

Hourly Pay Range: \$27.64 to \$33.61

The City of Tacoma's Public Works Department is seeking Associate Construction Managers that are team players and are able to communicate and work with

the various stakeholders of a project, including construction inspectors, design engineers, and citizens of the City.

### How to Apply

Apply online or send your completed application, cover letter and resume to the City of Tacoma, Human Resources Department, 747 Market Street, Room 1336, Tacoma, WA 98402-3764.

Application materials can also be obtained by calling the Human Resources Department at 253.591.5400.



Tacoma/Olympia Section Board 2007 - 2008

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

#### President

**Bernie Hargrave**

[Bernard.L.Hargrave.Jr@nws02.usace.army.mil](mailto:Bernard.L.Hargrave.Jr@nws02.usace.army.mil)

#### President-Elect

**Jason Moline**

[jmoline@cityoftacoma.org](mailto:jmoline@cityoftacoma.org)

#### Secretary

**Don Davis...253.474.9449**

[DonDavis@sitts-hill-engineers.com](mailto:DonDavis@sitts-hill-engineers.com)

#### Treasurer

**Morris J. "Gus" Fant...253.922.2332**

[gusf@robinsonengineers.org](mailto:gusf@robinsonengineers.org)

#### Director

**Vince McClure...(360) 438-4323**

[vmcclure@stmartin.edu](mailto:vmcclure@stmartin.edu)

#### Director (2-year)

**Bruce McDonald...253.830.5337**

[bmcdonald@portoftacoma.com](mailto:bmcdonald@portoftacoma.com)

#### Region 8 Governor

**Dale A. Nelson, P.E....509.280.9079**

[danelson@earthlink.net](mailto:danelson@earthlink.net)

#### Younger Member Chair

**Brook Maples...**

[brookm@gmail.com](mailto:brookm@gmail.com)

#### Past-President

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[mhale@cityoftacoma.org](mailto:mhale@cityoftacoma.org)

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# ATTENTION!

## VOTE!

### For Your New ASCE Local Section Board

See Page 4 in this issue to cast your ballot for the next board. Take this opportunity to support those who have volunteered their time to serve in various positions of your local ASCE section.

For address changes/corrections, notify the Editor or the WEBmaster.

# ASCE BALLOT 2008-2009

To vote by email: Copy and paste this email into a new email addressed to [dondavis@sitts-hill-engineers.com](mailto:dondavis@sitts-hill-engineers.com) enter your choices and send.

Or. . print this ballot, mark your choices and mail to:  
Don Davis; Sitts & Hill Engineers, 2901 So. 40th St. Tacoma, WA 98409

**Please vote for one person in each category or write in person**

Ballots must be received by **May 31<sup>st</sup>** to be counted.

## Board Positions 2008-2009

PRESIDENT ELECT: \_\_\_\_\_  
or Write in: \_\_\_\_\_

SECRETARY: **Don Davis, Sitts & Hill Engineers**  
or Write in: \_\_\_\_\_

TREASURER: **Gus Fant, Retired**  
or Write in: \_\_\_\_\_

DIRECTOR (POSITION 2) **Lyle Stone, Geo Engineers**  
or Write in: \_\_\_\_\_

Younger Member Chair: **Brook Maples**  
or Write in: \_\_\_\_\_

## Nominating Committee for 2008-2009 officers:

**Pick 4 from the list below.** The chair of the committee is the Past President. Copy and paste your choices, then send.

- Sue Coffman      Connie Linden
- Kathy Hargrave      Mustafa Muhammedali
- Michael Hale

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_