



Lunch Meeting

THURSDAY, March 8th

Joint Meeting with The Society of American Military Engineers (SAME)

Liberty Inn
DuPont Station, WA
(see inside for directions and information)

Cost: \$20* cash or check
*students half price

Lunch: 11:30am
Program: noon

Menu:

Entree

Penne Pasta w/chicken, mushrooms, tomatoes, in a marsala winesauce

Salad

Classic Caesar Salad w/Bread

Dessert

Cookies

Please RSVP by noon, Friday, Mar. 2

Contact Kay Hoke at khoke@cityoftacoma.org or 253.591.5760

Please note the section does not have the ability to accept credit cards. **Cash or Checks, please.**

SR 520 Bridge Replacement and HOV Project

Speaker: **Mr. John Milton, Ph.D., P.E.**
Project Director, Washington State Department of Transportation (WSDOT)



Why is WSDOT pursuing this project?

Fast-growing numbers of citizens depend on the SR 520 link across Lake Washington. SR 520 links densely populated cities and some of the largest employers in the state.

A one-and-a-half-mile long facility, the 42 year-old SR 520 Evergreen Point Bridge is very vulnerable to windstorms and earthquakes and needs to be replaced.

The End Result

The current corridor will be replaced with a 6-Lane facility. The 6-Lane alternative will create a seismically sound and safe new Portage Bay Bridge and Evergreen Point Floating Bridge with full shoulders, and a bike and pedestrian path through the entire project corridor. The pontoons will be large enough to support future high capacity transit (HCT).

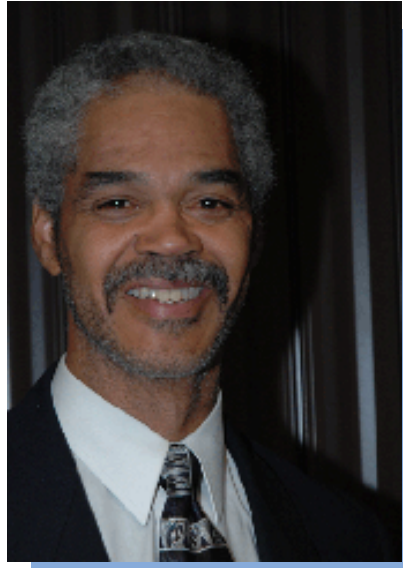
Expansion and improvements to the approach structures and on- and off-ramps of the Evergreen Point Bridge, the Portage Bay Bridge, and segments of SR 520 on either end of the lake are included in the 6-Lane alternative.



Speaker

John Milton, Ph.D., P.E., Project Director

John Milton oversees the entire SR 520 Bridge Replacement and HOV Project. He has 20 years of experience in transportation engineering, and previously served as Chief Engineer of the SR 520 project as well as Assistant State Design Engineer working on I-405, the Alaskan Way Viaduct, I-90 and other large-scale WSDOT projects. He holds a Bachelor of Science in Civil Engineering and a Master in Engineering Management from St. Martin's University and a Master of Science and a Doctor of Philosophy in Civil Engineering from the University of Washington. John serves on six expert panels with the National Academy of Engineering, with the emphasis on highway design and safety analysis. He currently serves on two national committees with the Transportation Research Board and is the Chair of Content for the United States Highway Safety Manual.



Michael Hale P.E. has worked for the City of Tacoma Public Works Department for the past 12 years. He is Assistant Division Manager of the Construction Division.

This month America celebrated Presidents Day. It was a day in which we were to remember those who have served as the *Leader* of our country. The term *leader* seems to constantly be following us.

It is not a term to be taken lightly. The President of our country has the responsibility to Lead the people of this country in the direction and manner which upholds the honor, the integrity, the hopes, the dreams, the rights and freedoms that Americans believe in. This was not, nor is it today, an easy task. The people who have served America as its President, are to be remembered as being willing to take on this task, in spite of the hardships, trials and tribulations, the uncertainties, and the obstacles of leading us. May our leaders be always be granted the gifts of wisdom and compassion in leading us.

On the lighter side of things, we celebrated Valentine's Day. Hopefully everyone satisfied their sweet tooth.

Going to back to the topic of leaders, just a reminder that the Region 8/9 Leadership Conference is February 23–25, in Bellevue, WA. The conference will present information and show engineers how to be better leaders in our profession. But, this training should not be limited, it should be a tool in helping us as Engineers be leaders in our communities.

Being a leader means first of all getting involved. Getting involved takes a deep down honest effort. It means stepping outside the box. It means doing that which will make a positive difference in our society. We are in constant need of people willing to *make a difference*. So, ask yourself –“*How can I make a difference?*” After you answer, go out and as Nike says—“*Just Do It*”.

We are always asking you, as fellow ASCE members to become more active with our Section. We want our Section to be more active than it is. But that takes your involvement. So send the Board your suggestions—even better—come out to the Board meetings. We need you and your talents and commitment to make our Section the best it can be.

On March 8th, we have the Annual Joint Meeting with The Society of Military Engineers or *SAME*. We always look forward to this opportunity to interact with fellow Engineers who are also serving our country in the military. *SAME* is hosting the meeting and it's at a new location. So come on out if you can.

Our April Section Meeting is the Annual Honors and Awards Banquet. We have 7 people who will be receiving “Life Membership” awards. They will be named in the next newsletter. So do them the honor of putting this meeting on your calendar and come and bring a friend or co-worker.

Thank You

Michael Hale
2006-2007 Tac/Oly Section President

New Meeting Location

The Liberty Inn at DuPont Station

The Liberty Inn at DuPont Station is located off I-5 at Interchange Exit 118, between Tacoma and Olympia, approximately 15 minutes from either city and approximately 45 minutes from downtown Seattle. We are conveniently located 2 miles from the main entrance to Fort Lewis (Liberty Gate), 1 mile from DuPont Gate and offer accommodation to businesses in the area that include Intel Corporation, State Farm Insurance, Girl Scouts of America, Pier 1 Imports Distribution Center and Fedex Sorting Facility.

The Liberty Inn at DuPont Station offers 72 well appointed guest rooms and suites in a convenient location at Exit 118 along the I-5 corridor between Tacoma and Olympia. Our rooms are spacious and tastefully decorated with cherrywood furnishings and have been designed to accommodate the needs of both the business and pleasure traveler.

We invite you to relax by the fireplace in our bright and elegant spacious lobby or enjoy the indoor heated pool and Jacuzzi or the exercise room if you feel like a workout. Conference facilities are also available to accommodate executive meetings, social events and retreats.

We are pleased to announce that we have partnered with Comcast to offer both complimentary secure high speed and wireless internet access in all of our guest rooms and complimentary wireless internet access in all common areas of the hotel. Our conference facilities are also available with complimentary high speed and wireless internet access and multimedia capabilities.

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LIBERTY INN - DuPont

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Contact:

Michael Hale...253.591.5766
mhale@cityoftacoma.org

Younger Members Unite!

Come join other younger members for *free* pizza and an open discussion on ASCE and all things Civil Engineering!

When: Thursday, March 15th - 7:00 P.M. until...

Where: Puget Sound Pizza - Downtown Tacoma

Why: Why not?

Who: Younger members and Potential Younger Members

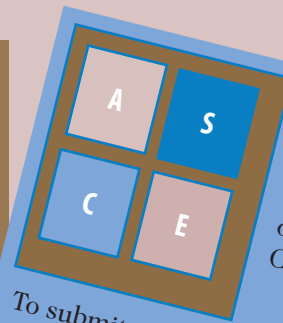
Please contact

Don Davis (DonDavis@sitts-hill-engineers.com) or

Ben Laurie (BenLaurie@sitts-hill-engineers.com)

to let us know you will be there or for more information.

Many thanks!



Civil Engineer Newsletter is published monthly from September to May for the Tacoma/Olympia Sections of the American Society of Civil Engineers.

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

**Engineers Make
The Difference—
They Provide
the *Quality* of Life!**

& BRIDGES in History

In the early 1850s, the Lexington and Danville Railroad needed to cross the Kentucky River in central KY. John

Roebling was then working on a suspension bridge at Niagara Falls. L&DRR engaged Roebling to design a similar bridge at a site below the confluence of the Dix and Kentucky Rivers; the gorge there was even wider than the Niagara. Main supporting towers were constructed, but the L&DRR went bankrupt and the project was abandoned.

Two decades later, the Cincinnati Southern Railroad (organized 1869) selected Charles Shaler Smith to design a bridge at the same site on the Kentucky River. Smith was regarded as the foremost American engineer of the post-Civil War era. He was a partner in the Baltimore Bridge Company, which boasted of having created 13 miles of bridges, including four over the Mississippi, one over the Missouri, and one over the Saint Lawrence.

Smith's bridge opened on February 20th 1877, and has remained in daily use to this day.

High Bridge was the first cantilever bridge in North America. At the time of its completion in 1877, it was the highest (275') and longest (1125') cantilever in the world. Until the early twentieth century, it remained the world's highest bridge over a navigable stream.

A cantilever consists of a pair of rigid levers, each anchored to the ground at one end, and each supported by a fulcrum near the anchor.

Imagine starting with two diving boards on opposite sides of a swimming pool, then lengthening the boards until they can be joined in the middle.

High Bridge is located near the town of the same name, approximately 21 miles southwest of Lexington KY. It was designated as an engineering landmark by the American Society of Civil Engineers in 1986.

A model of the bridge is on exhibit at the American History Museum of the Smithsonian Institute. In 2005, a park was opened near the bridge.

High Bridge is currently leased and operated by Norfolk Southern, but it remains the property of the Cincinnati Southern Railroad.

CSRR is unique among American railroads in that it is owned by a municipality. Its original construction was paid for by two \$10,000,000 municipal bond issues. Cincinnati's investment repaid its cost many times over in dividends during the twentieth century.

CSRR's main line runs from Cincinnati, OH to Chattanooga, TN with branches to Knoxville, TN and Louisville, KY.

CSRR was the route of the original "Chattanooga Choo-Choo" (1938), although the itinerary described in the 1941 Glenn Miller hit bears no resemblance to it.

From Train Collector Digest and submitted by long time reader, Jess Searle.



SECTION CALENDAR and ENGINEERING RESOURCES



Section Calendar

Tacoma/Olympia ASCE Section Meetings March 8th - THURSDAY

Joint meeting w/SAME
SR 520 Bridge Replacement and HOV Project
presented by WSDOT
Liberty Inn, DuPont Station, WA
Lunch Meeting @11:30am

***May 15th**
Tacoma Central WWTP Upgrades
Tacoma, TBA

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.

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

Tacoma/Olympia ASCE Board Meetings: Monday, March 5th 5:30pm , Red Lobster off I-5 @72nd

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.

call **253.591.5766 (Michael Hale)** for location and time

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

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

2007 Spring 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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stacyw@u.washington.edu
(direct) 206-543-5743

Continuing Ed

For scheduled seminars in your geographic area are available on ASCE's website at 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 or

Michael Cook at mcook@asce.org.

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Tacoma/Olympia Section Board 2007 - 2008

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

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We're on the web!

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

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