



SOUTHWEST CHAPTER

SEAW SW Chapter, P.O. Box 111480, Tacoma, WA 98411 www.seaw.org seawswchapter@gmail.com 253.382.2901

Welcome our
2010 - 2011
SEAW SW Chapter
President
Luke Heath!



Upcoming Events

September 8th	ASCE/SEAW Joint Meeting
September 14th	Wood & CFS Webinar

2010-2011 SEAW SW Chapter Board

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Happy 60th
Anniversary
SEAW

Message from the President:

It was the winter of 1987, and I was 11 when my parents invited a lean rugged man into our home for supper. I guessed from his sun soaked Allan Quatermain features that he wasn't from around here. Here being Washington where nature has an inclination to evenly spread out 70 inches of drizzle over a given year in a manner that we were forced as kids to drink milk with extra vitamin D to make up for the absence of sunshine. As my mom served dinner and our milk, my father introduced us to Dave, a collegiate friend from his junior college football days. As we started eating, Dave stated he hadn't been state side for some time which peaked all of our interests. He had been at Papa New Guinea for a number of years. He was working for the government installing low head hydraulic electric dams for rural communities that had never seen a white person let alone electricity. To do this job, he had to be a modern day renaissance jack of all trades man. He worked with linguist, surveyed water flows, tinkered with machines, was a marine pilot, an adventurer, but most of all, he was an engineer. He told stories of working with cannibals, meeting the president and famous dignitaries, and ironically, traveling once in a heavily loaded aluminum open skiff that was hauling an electric generator during an electrical storm. The more he talked, the more I dreamed. By the end of dinner I had made my mind up - I wanted to be an engineer.

Well, I am living the dream and it is fun to remember how it all began. As I look back, and have talked to Dave in subsequent years, Dave had figured a practical way to give the third world country of Papa New Guinea a vision for modernization. His engineering skills made the government's vision come true for those small remote communities. The 1920's novelist Cynthia Ozick summed it up best, "*Engineering is secondary to the vision.*" The two principles go hand in hand, but vision is foremost to execute our livelihood.

In 1949, there was an earthquake here in Washington. In 1950 a group of engineers formed and established a group that would become SEAW. Their vision was to create a forum for engineers to communicate ideas and establish a baseline for future engineering in the state of Washington.

This year represents SEAW's 60th year, a diamond year if you will. We have a lot of history to

celebrate since our inception. There have been numerous research committees formed, countless seminars given, scholarships have been distributed to future engineers, and thousands of members have joined together in this fraternity. My vision for this year is to celebrate history.

We have some pretty exciting venues and a new twist on the Trade Show to celebrate our 60th year. We will be inviting some engineers in the twilight of their career to share their stories and their visions in grand style at the Trade Show. If you are interested in helping with this year's Trade Show, please feel free to contact myself or anyone on the board. Stay tuned for more information to come. On a side note, all of the money we generate helps the General fund and allows us to give scholarships and equipment grants to the students of Saint Martin's University.

Shakespeare wrote in Much Ado About Nothing, "What need the bridge much broader than the flood?" This next month, we will be having a joint meeting with ASCE. ASCE is presenting on the Manette Bridge and the challenges they had to overcome to replace the existing bridge. We hope to see you there. Take some time to talk to our fellow engineers.

Lastly, I am honored and humbled to serve as your president this year on the board. I want to thank all of those who served last year, they put a lot of time and energy into the Northwest Conference. I would also like to thank Past President Andrew Boileau for coaching me this summer and answering my endless questions. We welcome Justin Lyons from AHBL as our new non-voting director.

Sincerely,
Luke Heath, S.E.
SEAW Southwest Chapter President

Luke Heath has worked for PCS Structural Solutions in Tacoma since graduating from Washington State University with a Masters in Civil Engineering in 2001. He is an associate and can be reached at lheath@pcs-structural.com.

September 2010

Structural Engineers Association of Washington

Wednesday, September 08, 2010



Manette Bridge Replacement

Bremerton, Washington



Washington State
Department of Transportation

Manette Bridge Replacement Project

The Manette Bridge, in Bremerton Washington, is a 13 span steel truss bridge built in 1930 and modified in 1949. The bridge has served the community well over its 80 years, but is functionally obsolete and structurally deficient. Construction of a replacement bridge began in August 2010. The new bridge will be a reinforced concrete structure with variable depth girders. (Six piers will be located in Port Washington Narrows, based on shaft foundations.) Several architectural enhancements are included in the bridge design. Additional width will be provided on the new bridge for pedestrians and shoulders useable by bicyclists. The intersection off the east (Manette neighborhood) end of the new bridge will be reconfigured to a roundabout as part of the project. Also, the Whitey Domstad viewscape will be restored and enhanced.

More info. Continued on next page.....



Presentation Given By:

Bill Elliot P.E. (WSDOT Olympic Region's Tumwater Design Office)

And

Patrick Clarke S.E. (WSDOT HQ's Bridge & Structures Office)

Bio

Bill Elliott

Bill is a Project Engineer with WSDOT's Olympic Region. He manages a design project office with a current staff of about 20. Almost all of Bill's experience with WSDOT is in project design, in both Olympic and Northwest Regions. He also served an assignment at the WSDOT HQ Design Office assisting project teams statewide with implementation of the Managing Project Delivery process and tools. From 2002 to 2005 Bill was a member of the Tacoma Narrows Bridge project management team. On that large Design-Build project, he served as the WSDOT Civil Design Review manager. Prior to joining WSDOT in 1990, Bill served as an Air Force officer and helicopter pilot in Alaska, South Korea, and with the Coast Guard in San Diego, CA. He graduated in 1980 from one of the oldest civil engineering schools in the U.S. – Norwich University in Northfield, Vermont.

Location:

Hotel Murano

Address:

1320 Broadway Plaza
Tacoma, WA 98402

Time:

5:30 PM – Social Hour

6:00 PM – Dinner

6:30 PM – Presentation

****Cost:**

\$35 – SEAW Members/ASCE Members

\$17.50 – Students

Reservations:

E: tacolyasce@gmail.com

**Reservations Required. Deadline is*

Friday, September 3rd, Before Noon

Entrée Choices

1. *New York Steak*
With a morel mushroom demi
2. *Wild Salmon*
With a saffron cream and fried leeks

Salad Choices

1. *Tossed Caesar*
2. *Murano Blue*
3. *Spinach*

Starch Choices

1. *Roasted red potatoes*
2. *Yukon mashed potatoes*
3. *Wild rice pilaf with dried Yakima cherries*

Wood and Cold Formed Steel Trusses

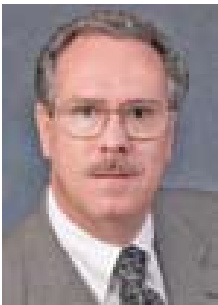


September 14, 2010

One of the systems structural engineers specify most commonly is pre-manufactured trusses. The majority of small, light weight structures use them to frame roofs, awnings, mansards, canopies and similar architectural elements. There are however, very different expectations of “who is responsible for what” on the parts of the SER, the truss industry, contractors, and the building department. This seminar will explore some of the pitfalls of specifying pre-manufactured trusses, including:

- * Definitions – part of the problem we have is that we define the same things differently.
- * Loads – range of loads, concurrent storage loads, loads likely to be in place.
- * The three types of bracing and who is responsible for each. The answer may surprise you!
- * Roof uplift and load path considerations.
- * Typical truss failures and field problems.
- * Codes and Standards; are your drawings in compliance?
- * Truss inspections – who is responsible? Are these systems even being inspected?
- * Special considerations – long trusses adjacent to walls, suspended ceilings, attachments to trusses.

Ed Huston Bio



Ed Huston, a 1971 civil engineering graduate of the University of Washington, is a licensed civil and structural engineer in Washington and is licensed in seven other states. He is a principal in the firm of Smith & Huston, Inc., Consulting Engineers in Seattle, Washington. Ed has over 38 years of experience in structural design, evaluation, investigation and code and standards development. Ed is a former President of the Board of Directors of NCSEA, is chair of the NCSEA Code Advisory Committee – General Requirements Subcommittee, and serves on NCSEA’s

Licensing Committee.

Ed is a co-author of the Wind Commentary to the Uniform Building Code – 1991 Edition & 1994 Editions, ATC-60, SEAW Commentary on Wind Code Provisions, as well as the SEAW RSM-03, SEAW’s Handbook of a Rapid Solution Methodology™ for Wind Design. He is also co-author of the ATC Design Guide 2: Basic Wind Engineering of Low-Rise Buildings and co-author of The Masonry Designers' Guide to the ACI/ASCE 530 Code, First through Sixth Editions. Ed has made more than 160 technical presentations.

This course will award 1.5 hours of continuing education.

The times will be 10:00 am Pacific, 11:00 am Mountain, 12:00 pm Central, and 1:00 pm Eastern

Approved in All 50 States

<http://www.ncsea.com/webinar/EdHustonWebinar.aspx>

Cost: \$250 per internet connection

Several people may attend for one connection fee.

There will be a \$5 fee for each continuing education certificate requested.



SEAW Dues Invoices Have Been Emailed!

INSTRUCTIONS FOR PAYING YOUR DUES ONLINE:

1. Go to www.seaw.org
2. Log in to the member area (Default login name is your email address; password is your first name.)
3. Click on "My Membership" in the menu bar
4. Select "Membership Renewal" in the gray menu bar to see if there is an outstanding invoice.
5. Select the invoice and Follow the prompts to pay your dues online using your VISA or MasterCard.
6. When your payment has been made, you will receive an automated receipt by email.

Forgot your Login Information? Simply click on "Forgot Password" under the Member sign in area and enter your email address. Your information will be emailed to you.

Or send check to:

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PO Box 44
Olympia WA 98507

SEAW SW CHAPTER

2009-2010 Board of Directors

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The SEAW Southwest Chapter newsletter is printed monthly from September through May. Circulation is approximately 150 members & related organizations. Articles, letters and announcements are accepted through the SW Chapter office at PO Box 111480, Tacoma WA 98411. Advertising Rates: Help wanted \$25; Goods/Services and inserts \$50. Items received by the 30th of the month will be considered for publication in the following month's issue. For information, contact the SW Chapter at 253-382-2901 or email seawschapter@gmail.com