

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



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**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 May.

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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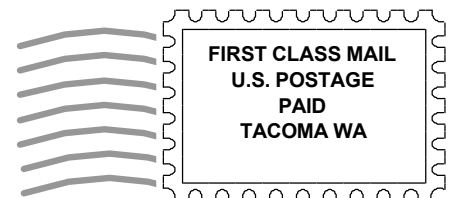
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CIVIL ENGINEER
The NEWSLETTER

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DECEMBER MEETING

DINNER MEETING

Joint Section Meeting with Seattle

Double Tree Inn

205 Strander Boulevard, Tukwila WA

WEDNESDAY, December 8, 1999

Social: 5:30 - 6:00 pm

Dinner: 6 - 7 pm

Program 7 pm

The program is free to all.

Dinner cost is approx. \$25.00 for members,
and students half-price.

Sea Launch

Speaker: **Tim Hansen, VP Boeing
Commercial Space Company**

Please join the Board of Directors of the Tacoma/Olympia Section in welcoming Mr. Tim Hansen, Vice President, Boeing Commercial Space Company, as our Guest Speaker for the December Section Meeting.

The Sea Launch program is an exciting and innovative project for launching satellites from a platform at sea. Sea Launch combines the world's best aerospace and marine capabilities to provide satellite customers with a fully integrated commercial launch service capabilities. The Sea Launch global partnership includes Boeing Commercial Space Company, Kent, Wash., (provides spacecraft integration and the payload fairings); Kvaerner Maritime a. s., of Oslo, Norway (the vessel builder); RSC Energia of Moscow, Russia (provides the Block-DM upper stage and its integration with the launch vehicle); and KB Yuzhnoye/PO Yuzhmash of Ukraine (provides the first two stages of the launch vehicle and launch support operations).

Sea Launch's outstanding inaugural launch on March 27, 1999 and equally successful first commercial launch of the DIRECTV 1-

R broadcast satellite on October 9, validated the program concept and demonstrated overall system capability. The successful completion of both missions marked the culmination of four years of intense development work performed by thousands of aerospace and marine professionals throughout the world.

Timothy J. (Tim) Hansen, Vice President, Boeing Commercial Space Company, Project Manager, Sea Launch Project

Tim Hansen is the Project Manager for the Sea Launch project in Boeing Commercial Space Company, responsible for the development and operation of all Boeing elements of the Sea Launch system.

Prior to his Sea Launch assignment in January 1996, he served as the Director of Space Systems Concepts in the Business Development organization, responsible for developing new concepts in Advanced Spacecraft, Space Transportation and Advanced Space Systems.

Hansen joined Business Development in January 1995 after two years in Electronic Systems Division where he was the integrated support manager in Commercial Avionics Systems (CAS), responsible for providing overall support to all CAS programs including engineering, business management, customer services and continuous improvement support. He was also responsible for the 777 Automated Test Systems (ATS-195) project. Prior to his Commercial Avionics Systems assignment in 1992, he was assigned to Missile Systems Division where he was program manager for the U.S. Navy's Advanced Interdiction Weapon System (AIWS) from 1990 to 1992. He was named AIWS program manager after two years as product development manager for Missile Systems Division. In that position, he managed technical and business activities for all new missile efforts.

That appointment was preceded by two years as Air Defense Systems program manager. He managed production, delivery and support activities for the Roland system and then managed the winning proposal and competitive shoot off for the Avenger/Pedestal Mounted Stinger air defense system. Hansen began his career with Boeing in 1968 as an engineer on the Short Range Attack Missile (SRAM) program working on propulsion and missile testing equipment design project for ten years.

He spent five years managing the propulsion and vehicle design elements on the Inertial Upper State booster rocket program before being selected for the Sloan Fellowship program at Stanford University which he attended in 1983 and 1984. He was assigned to the Roland program on his return from Stanford.

Hansen received a bachelor's degree in aerospace engineering from Iowa State University in 1968 and his master's degree in management from the Stanford Graduate School of Business at the conclusion of his Sloan Fellowship studies.

He is married and has two children, both currently attending college. His outside interests include golf and water sports.

President's Corner

KATHY HARGRAVE

Happy Holidays! As I prepare for my holiday functions, I am given pause to reflect upon the significance that has been associated with the New Millennium. Keeping track of the date and time has been a universal endeavor so that we can record events of significance, know when to plant, know when the tides will be high. Basically, I think of time and date as a convenience made up by man to facilitate our record keeping and future planning. It seems that many are expecting great/terrible/wondrous events to surround the change from the 1900's to the 2000's. These expectations sometimes go beyond major power outages, banks losing critical account information and general computer related havoc.

I am in the group of pessimists. I think that despite the slight possibility of some utility inconvenience, there will be no great events of monumental importance that will arise, due solely to the turn of the millennium. I expect to do the usual things, work, commute, feed my animals and keep my house in the same manner as I have these past years. I do not like to get all excited about change for changes' sake. I do not like television and radio hyping the turn beyond reason. It scares some people, who rely on the news for their information, to hear that there may be power and communications (essential services) disruptions on January 1, 2000. I believe that any disruptions of services will be minimal and soon corrected. I think that banks are a good place for my money and that my accounts will not suffer from the change in year. Boy, will this be a funny article in January if I am wrong. There will not be a newsletter in January, a post card will be mailed to announce the Section Meeting, so look for the retraction to this article in the February Newsletter.

Naturally, I have a Honda Generator, a freezer full of food, beef on the hoof, chickens for slaughter and plenty of staples. This is not Y-2K preparedness, it's just my life. I am shocked to hear of people living in the cities and suburbia buying these same things just in case there is a problem with the power, communications and/or the food supply come January 1. This sudden urge for everyone to have a generator makes me wish that we had waited to buy ours after the blessed event.

Then we would have been able to pick up a never been used one from one of those urbanites who realizes that they have little need for such a thing. I live in rural Kitsap County however, and if our power goes out, it can be days before it is restored, so we really couldn't wait.

Perhaps some good is coming of all the hoopla surrounding the change. People seem to be evaluating the things that are important to them and many are planning a new start for the Millennium. Maybe it would be a better world if each New Year were greeted with such high expectation. I think that the reality is that after the exciting turn, things will go back to being much the same as they have been in the past. It would be nice to have a scaled down version of this excitement where we pause to reflect all that we have done and left undone in our lives, our families and our communities. I like to think that we are all progressing on the journey of our lives and that things that happen along the way add richness and dimension. An annual panic to get our survival juices flowing will be just the ticket to propel us into the 2000's.



Have a very happy holiday season. I'll see you next year.

Feedback

Your feedback is always welcomed and can only make this newsletter and your board/officers more useful. Please address questions comments, statements, and opinions to kathyhargrave@sitts-hillengineers.com

Kathy Hargrave, President
Tacoma Olympia Section

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December Joint Meeting

Reservations

Please make your reservations to Connie Linden at (253) 383-2422 or Dr. Igharo at (360) 438-4322, by close of business, Friday December 3, 1999. It is very important for us to receive an accurate count for catering and room reservation purposes. We regret to inform you that those making reservations for dinner, but who are unable to attend will be billed for the event. If you miss the reservation deadline, please call Connie or Dr. Igharo anyway. It is better to indicate that you will be attending, than to show up without a reservation.

Directions

I-5 north or south bound: take Southcenter Mall exit. Head south on Southcenter Parkway to Strander Boulevard. Take a left onto Strander and the Inn will be on the left. It is just across from Sears at Southcenter.

OCEA Award

I am wondering if anyone has found a project that will be completed in 2000 or 2001 prior to October of that year that fits the criteria for the Outstanding Civil Engineering Achievement Award? In case you misplaced the October issue of the Newsletter, here are the requirements for the award:

- 1) Contribution to the Wellbeing of People and Communities;
- 2) Resourcefulness in Planning and Solving Design Challenges
- 3) Pioneering in the Use of Materials and Methods
- 4) Employing Innovations in Construction
- 5) Impacts on the Physical Environment
- 6) Beneficial (as well as adverse) Effects of the Project, Including Aesthetic Value.

There is a whole list of requirements for applying for this award, a written report with a limited number of words must be submitted and a presentation must be prepared. Please be on the lookout for such a project. If you would like more information on submittal requirements, please contact Kathy Hargrave or a member of the board. It is likely that there are a few projects being built in our section at this time. Please consider this as an invitation to get regional and perhaps national recognition for one of our projects. If there is enough interest generated in this, our section can host its own Tacoma/Olympia Section OCEA Award. That would be a lot of fun.

Southwest Chapter SEAW

4th Annual Educational Trade Show and Seminars

Best Western Executive Inn, Tacoma/Fife
Wednesday, January 19, 2000
from 2 – 9 pm

Afternoon seminars will be held 2 – 5 pm and the Trade Show begins at 5. Attendance is on first come first serve basis. For reservations call Sarah at (253) 565-0796 or e-mail her at sjporter@worldnet.att.net. Deadline is noon Wednesday, January 5, 2000

SEE ASCE WEB PAGE FOR FULL DETAILS

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

Check out the newest offerings of the TRANSPEED program at <http://www.engr.washington.edu/epp> Courses fill up fast, so early registration is advised. We have added two new courses: Roundabout Design and Bridge Foundations. If you would like to be added to our brochure mailing list please send an email to croop@u.washington.edu.

Thank you,
TRANSPEED Program
Engineering Professional Programs
University of Washington
10303 Meridian Ave N #301
Seattle, WA 98133

ASCE Upcoming Events

Section meetings: open meetings held once a month, September through June, generally meeting on the second Tuesday of the month. Locations alternate between Tacoma and Lacey and times vary between lunch and dinner meetings.

Local Board: open meetings, generally the first Wednesday of the month at 5:30 PM. Locations vary. Please contact the President for the location if you would like to attend.

Wednesday, December 1, 1999 - Board Meeting in Olympia at 5:30pm at Ben Moore's Café, 112 - 4th Avenue West, 360-357-7527 (two blocks east of the Oyster House).

Wednesday, December 8, 1999 - Joint Section Meeting with Seattle in Tukwila. Boeing's Tim Hansen presenting the Sea Launch Program. Dinner and program.

Wednesday, January 5, 2000 - Board Meeting Tacoma area at 5:30pm. Location to be announced.

Tuesday January 11, 2000 - Section Meeting (lunch) on Lake Tapps. Doug Southerland, Pierce County Executive and Ed Schult, Operations Manager for Puget Sound Energy giving the presentation. At The Vault in downtown Tacoma.

Wednesday, February 2, 2000 - Groundhog Day! Board Meeting Lacey/Olympia area 5:30 pm. Location to

Friday, February 11, 2000 - Joint Meeting with St. Martins at St. Martins Worthington center. Program and meeting particulars to be announced.

Wednesday, March 1, 2000 - Board Meeting Tacoma area 5:30pm. Location to be announced.

Second week in March 2000 - Joint Meeting with SAME. Lunch meeting at Ft Lewis. Horace Foxall will present historic Ft. Lewis project.

Wednesday, April 5, 2000 - Board Meeting Lacey/Olympia area 5:30pm. Location to be announced.

Tuesday, April 11, 2000 - Section Meeting Honors and Awards Night at a location in Tacoma.

Wednesday May 3, 2000 - Board Meeting Tacoma area 5:30pm. Location to be announced.

Tuesday, May 9, 2000 (to be an evening meeting) - Section Meeting in Lacey/Olympia area. Tom Skillings will present on the Yelm Reclaimed Water/Sewage Treatment Plant.

June, July and August are our Summer BreakJ.

Wednesday, September 6, 2000 - Board Meeting, Lacey/Olympia area 5:30pm. Location to be announced.

Tuesday, September 12, 2000 - Section Meeting, Lacey/Olympia area 5:30pm. Location and program particulars to be announced.