



# Civil Engineer THE NEWSLETTER

NOVEMBER 2005

**Tuesday,  
November 8th**  
City of Tacoma Fleet  
Services Classroom  
3639 S Pine ST, Tacoma

## Presentation and Tour of the New Tacoma Police Headquarters

**Parking is limited**  
Large groups please carpool.  
Park in the South Public Lot,  
3701 S. Pine St.

**\*Please bring photo ID**

**Time: 11:30am**

**Cost: \$10 LUNCH Pizza Feast**  
**\*Students half price**

**To make your reservations:  
Please contact Kay Hoke  
at 253.591.5760 by 3pm  
Friday, Nov. 4th.**

## New Tacoma Police Headquarters

**Speaker: George Jackson**, Construction Manager, and Engineering Construction Coordinator for the Public Works Department Construction Management Division

George Jackson has worked in the City of Tacoma Public Works Department for over five years and is assigned as a Construction Manager/Engineering Construction Coordinator to providing project, cost, schedule, quality and contract management for the city's capital and facility projects.

George joined to the City of Tacoma in 2000 with a Certificate in Construction Management from the University of Washington and more than 25 years of progressively responsible experience representing over \$160 million in construction contracts for the construction, reconstruction and renovation of federal facilities and infrastructure worldwide for the MILCON Division of the U.S. Army Corps of Engineers. Since joining the city, George has completed several underground utility and transportation projects as well as the new Tacoma Police Headquarters.

The New Tacoma Police Headquarters is a model in sustainable design and engineering with its large south facing curtain wall, generous use of glass, open atriums and oversized skylights allowing the maximum use of natural light year round. The new facility is geographically located in the center of the city along South Pine Street and sits adjacent to an adaptive reuse project completed earlier to house the Police Department's Special Teams and the city's Fleet Maintenance Facility.

The police headquarters was deemed substantially complete in mid-October 2005 and includes 73,000SF of operational space; 4000SF of public meeting space, 23,000SF of open parking and approximately 190,000SF of secured parking. With a structural steel superstructure and deep foundation, the building is constructed as an essential facility and boasts other sustainable features including a raised floor HVAC system, low-water-usage plumbing fixtures, recycled content products, agri-fiber products, low VOC paints and sealants, job site recycling, and energy efficient lighting and control systems. The city is seeking a LEED "Gold" rating for the Work.

The general contractor is **Leo Finnegan Construction Company** of Tacoma, Washington and the cost of construction is approximately \$15.2 million.

## ASCE Seeking Nominations for Prestigious Annual OPAL Awards

ASCE is seeking nominations for 2006 Outstanding Projects and Leaders (OPAL) Award and 2006 Outstanding Civil Engineering Achievement (OCEA) Award. OPAL Awards entries must be received by 5:00 pm Nov. 15. OCEA Award entries must be received by 5:00 pm Dec. 1. The awards will be presented at the seventh annual Outstanding Projects and Leaders (OPAL) Awards gala April 26, 2006 at the Ronald Reagan Building and International Trade Center in Washington, D.C.



*The New Tacoma Police Headquarters is a model in sustainable design and engineering*

## President's Corner by Sue Coffman



Sue Coffman  
Tacoma/Olympia Section  
President 2005-'06

For my first newsletter as President of our Tacoma-Olympia section, I'd like to say *THANK YOU* to our members for giving me the opportunity to serve you. I truly enjoy working with the other board members, who bring years of experience to our section. Of course, we are always looking for new members to join our board, so if you have an interest in a leadership position

with our section, please let us know.

The recent earthquake in Pakistan has again reminded me how lucky I am to live in a country that has a developed infrastructure. Although Hurricane Katrina hit our county hard, we lost just a handful of human lives compared with the lives lost in the Pakistan earthquake. However, just recently I was looking at the ASCE 2005 report card for infrastructure. I must say it was pretty disappointing:

Aviation	D+
Hazardous Waste	D
Bridges	C
Navigable Waterways	D-
Dams	D
Public Parks/Recreation	C-
Drinking Water	D-
Rail	C-
Energy	D
Roads	D
Schools	D
Security	I (incomplete)
Solid Waste	C+
Transit	D+
Wastewater	D-

We're in C (mediocre) and D (poor) grades for all but one category. What's even worse is that we went down when compared with the 2001 report card in over 50 percent of the categories. To me, this says we're headed for trouble in the future if we can't even maintain the poor grades we had 4 years ago. I know that on a personal level, very few of you would be happy with a C or D grade from engineering school, yet we are complacent about receiving these grades as a profession.

As engineers, we need to emphasize the importance of maintaining and rebuilding our infrastructure to friends, coworkers, community leaders, etc. We should take pride in our profession and look for opportunities to inform the public about what we do (hint, hint – volunteer at the ASCE booth at the Puyallup fair).

On a similar note, I'd like to see more faces at our section meetings. These meetings offer a great way to build new professional contacts, as well as learn about new projects in the area and new technologies in our profession. I'd also like to extend a personal invitation to all of you to attend our next section meeting. We will get the opportunity to learn about the construction of the new Tacoma Police Station, as well as take a tour through parts of the facility. I'm looking forward to seeing you all there.

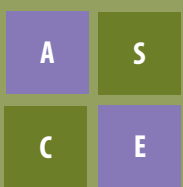
Regards,

**Sue Coffman**

Tacoma/Olympia Section President 2005-'06



**DON'T FORGET YOUR  
PHOTO ID FOR THE  
TOUR OF THE NEW  
TACOMA POLICE  
HEADQUARTERS.**



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

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 of the section or the Editor. Information must be submitted not later than the 15th of the month to be included in the next publication.

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

## ASCE Releases Tsunami Report



On Dec. 26, 2004, one of the largest earthquakes of the last hundred years was centered 160 km west of northern Sumatra.

Nearly 300,000 people died from the transoceanic tsunami that struck the coast along the Andaman Sea, Bay of Bengal, Indian Ocean, and the Arabian Sea. As part of the ASCE response to this global disaster, technical teams were sent to investigate the damages to lifelines caused by the earthquake shaking and the tsunami. Several reports were written and are now available for the ASCE membership and the general public to review and download.

## ASCE and The History Channel® Join Forces to Discover an Inventor!

Has the next BIG IDEA been your idea but someone else got it to market first? Have you spent your time pondering, tinkering, building or crafting the next Modern Marvel of the 21st century - but weren't sure what to do with it? Now you have a chance to be recognized and win a \$25,000 grant for sharing your BIG IDEA and expressing your inventive spirit by entering into the Modern Marvels Invent Now® Challenge.



This new program is presented by The History Channel® and Invent Now®, Inc., a division of the National Inventors Hall of Fame® Foundation, and in partnership with Time Magazine and the American Society of Civil Engineers. This program is an extraordinary opportunity for independent inventors to influence the ever-changing face of invention.

## Civil Engineers Define a New Body of Knowledge for the 21st Century



*ASCE President Patricia D. Galloway, P.E., FASCE addresses leaders from academia and the engineering community on the new Body of Knowledge.*

On Wednesday, Feb. 25, ASCE released the report, Civil Engineering Body of Knowledge for the 21st Century: Preparing the Civil Engineer for the Future, outlining a broader Body Knowledge required for future civil engineers. This landmark report represents the first known effort by an engineering discipline to redefine the Body of Knowledge required for professional practice, and will provide the foundation for sweeping changes in the formal education of future civil engineers.

These articles from the ASCE.org website. <http://www.asce.org/asce.cfm>

Read more detailed information by visiting the ASCE website.



# Section Calendar

2005-2006

**Tuesday, November 8th Lunch** –11:30am  
Meeting at New Tacoma Police  
Headquarters, Tacoma

**\*Thursday, December 15** –Joint meeting  
with  
Seattle ASCE Section, evening meeting  
at SeaTac location to be announced

**Tuesday, January 11**–Regular section  
meeting. Lunch.

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

**Board Meeting: Monday November 7th  
5:30pm Tacoma, location to be  
announced**

**Board Meeting: Monday December 5th  
5:30pm Tacoma, location to be  
announced**

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.

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>

# TRANSPEED Courses

The TRANSPEED Schedule Below is a list of the  
upcoming courses.

**Please view our website at**  
[http://www.engr.washington.edu/epp/  
Transpeed/index.html](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.

## Manual on Uniform Traffic Control Devices

Nov 1-3, 2005, Spokane  
Registration Fees: \$370 / \$570\*

## Determining Contract Working Days

November 8th, 2005, Lacey  
Registration Fees: \$285 / \$385\*

## Culvert Repair and Rehabilitation

November 15-16, 2005, Seattle  
Registration Fees: \$285 / \$450\*

## LRFD for Bridge Foundation Design

November 15-17, 2005, Sacramento, CA  
Registration Fees: \$685

## Basic Highway Capacity for Engineers and Planners

December 6-8, 2005, Lacey  
Registration Fees: \$400 / \$575\*

## Fundamentals of Traffic Engineering

December 13-15, 2005, Seattle  
Registration Fees: \$400 / \$575\*

## Work Zone Traffic Control Plan (TCP) Design

Jan 10-12, 2006, Seattle  
Registration Fees: \$390 / \$590\*

## Advanced Highway Capacity Analysis for Engineers and Planners

Jan 17-19, 2006, Seattle  
Registration Fees: \$485 / \$685\*

\*Washington State Public Agencies Fee / Private  
companies fee

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## Christy Pack

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## See the website at

[http://www.engr.washington.edu/epp/  
Transpeed/index.html](http://www.engr.washington.edu/epp/Transpeed/index.html) for more.

# 2005/6 Winter/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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We're on the web!

[http://sections.asce.org/  
tacoly/tacoly.htm](http://sections.asce.org/tacoly/tacoly.htm)